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Abstract

Academic research on passion is much more complex than the extant literature or popular press portray. Although research on work-related passion has progressed rapidly over the last decade, much remains unknown. We are now just beginning to recognize the different theoretical underpinnings and empirical operationalizations that work passion research has adopted; and, the confusion this has generated hampers our understanding of the construct and its relationship to workplace outcomes. Accordingly, we use a meta-analytic examination to study the work-related outcomes of three dominant literature streams of work passion: general passion, dualistic passion (i.e., harmonious passion, obsessive passion), and role-based passion (i.e., passion for developing, passion for founding, passion for inventing). We employ meta-analytic techniques using random effects modeling summarizing 106 distinct samples across 87 manuscripts totaling 384 effect sizes (total unique N = 38,481; 43.54% women, average age is 38.04). Importantly, we highlight how each of the three streams of passion relates to various outcomes differently, illuminate several important heretofore undetected nuances in passion research, and provide a roadmap for future inquiry on passion at work.

<u>Keywords</u>: general work passion; dualistic model of passion; role-based passion; entrepreneurial passion; meta-analysis

Passion at Work: A Meta-Analysis of Individual Work Outcomes Introduction

Contemporary perspectives on passion, both in the academic literature as well as the popular press, support the premise that passion for one's work is generally desired due to a plethora of positive outcomes, including perceived meaning, persistence, overall success, enthusiasm, financial gain, and happiness (Vallerand & Houlfort, 2019; Vallerand, Houlfort, & Forest, 2014). When passion is lacking, individuals are urged to "rediscover their passion for work and life" (Boyatzis, McKee, & Goleman, 2012, p. 5). Given the apparent consensus as to the positive aspects of passion, it is perhaps not surprising that passion research has progressed rapidly over the last decade, with a proliferation of passion-focused work emerging in the form of hundreds of popular press books (e.g., Anderson, 2010; Gostick & Elton, 2014; Guillebeau, 2012; Miller, 2009) as well as scholarly publications.

However, a closer look at studies related to passion at work reveals a surprisingly nuanced literature. On the popular press side, a recent *New York Times* opinion piece asked, "Should Work Be Passion, Or Duty?" (DeBrabander, 2019). On the academic side, distinct streams of research on work passion have emerged and progressed independently of one another, with little integration or cross-pollination across streams. For instance, some scholars define and measure work passion as simply love of one's work (Baum & Locke, 2004), while others construe passion as involving not only positive feelings but also meaning and salience to one's identity (e.g., Cardon, Wincent, Singh, & Drnovsek, 2009). As another example of the field's divergence, some studies found that passion is positively related to firm performance (e.g., Ho & Pollack, 2014), while others failed to find a linkage to firm growth (e.g., Baum & Locke, 2004). Problematically, this divergence in construct definition, empirical measurement, and outcomes of

work passion not only contributes to potential construct proliferation, but also makes it difficult for scholars and practitioners to reach a consensus on what passion truly is, and why it matters (or should matter) in the workplace.

To the extent that the different conceptualizations and measures of passion relate to similar outcomes in an analogous fashion, this underscores a need to synthesize and integrate various streams into one and generalize findings from one stream to the others, rather than "reinventing the wheel" and examining research questions that have already been addressed (albeit by researchers in a different passion stream). In contrast, if the various streams of passion differentially relate to work outcomes, this suggests that each stream offers unique value and merits separate attention, and that subsequent research should be explicit on the form of passion being examined and avoid conflating that with other conceptualizations of passion.

Our research objectives are to: (a) ascertain key work outcomes related to the different passion constructs; (b) identify similarities and/or differences in the passion-to-outcome relationships across the different streams; and, ultimately, (c) determine how each passion stream can inform the others, whether certain passion streams should be synthesized and combined, and/or whether a particular passion conceptualization warrants treatment as an independent construct. We describe and compare three major streams of passion research – general passion, dualistic passion (i.e., harmonious passion, obsessive passion), and role-based passion (i.e., passion for developing, passion for founding, passion for inventing). Although research on general passion defines it as one's love of work (Baum & Locke, 2004), the other two streams include an identity element, such that passion not only involves positive feelings toward work but also incorporates the work into one's identity (Cardon et al., 2009; Vallerand et al., 2003).

In addition, role-based passion, primarily examined in the entrepreneurship context, distinguishes three roles that entrepreneurs play – developer, founder, and inventor – whereas the dualistic model distinguishes between two ways in which work is internalized into one's identity (i.e., in an autonomous or controlled fashion). After detailing these and other similarities and differences across the three streams, we make predictions on the outcomes associated with each form of passion and test them using a meta-analytic approach that incorporates findings from 106 distinct samples across 87 manuscripts encompassing 384 effect sizes.

The findings from this study allow us to make at least three contributions to the work passion literature. First, the meta-analytic findings within each stream offer a more generalizable depiction of how each form of passion specifically relates to work outcomes, thereby reducing the risk that various idiosyncrasies in any one sample or study may have accounted for the relationships. Even more importantly, our findings shed light on previously inconsistent results and either demonstrate the relationships more conclusively or highlight those that warrant further investigation of potential moderators and contextual factors. For instance, in the context of general passion research, although multiple studies document a positive link between general passion and financial performance (e.g., Ma, Gu, & Liu, 2017), others did not find a link between general passion and venture growth (e.g., Baum & Locke, 2004; Baum, Locke, & Smith, 2001), thereby rendering unclear whether general passion does relate to performance. In the context of the dualistic model, in particular, relationships between obsessive work passion and common work attitudes (e.g., job satisfaction, turnover intention) and behaviors (e.g., organizational citizenship behaviors, or OCB) have been weak and mixed, thereby underscoring the need for a meta-analytic examination of these relationships that were not investigated in a previous meta-analysis of passion (Curran, Hill, Appleton, Vallerand, & Standage, 2015).

Second, comparing meta-analytic results *across* different passion streams allows us to provide insight and clarity into the similarities and differences of outcomes associated with each stream. In doing so, we offer a more holistic, integrated understanding of when passion constructs are similar, and when they are different, in their workplace implications. This is valuable in shaping consensus as to whether work passion, in its multiple forms and conceptualizations, is unequivocally beneficial, or whether some forms of passion are beneficial for promoting some outcomes (e.g., positive affect) but not others (e.g., performance).

Finally, our third contribution is to help determine whether there is value for scholars to continue pursuing research along each independent stream, or whether more benefit can be derived from synthesizing and integrating two (or more) of these conceptualizations and engaging in a programmatic study of an integrated perspective. Doing so can help the field avoid construct proliferation and the jingle jangle problem (Bansal, Bertels, Ewart, MacConnachie, & O'Biren, 2012; Cole, Walter, Bedeian, & O'Boyle, 2012) and provide legitimacy for the passion construct. Related, by analyzing all three streams of passion research concurrently, we expose scholars from one stream to those in the others, thus providing a platform for them to become familiar with research in each stream, engage in dialogue with one another, and build on advances in one stream to generate knowledge in another.

Passion at Work

In the process of reviewing and searching the literature, we noted that three streams of passion research have emerged independently in the work context – general passion, the dualistic model of passion, and role-based passion. These three streams have distinct theoretical underpinnings and empirical operationalizations. To illustrate this in more detail, we provide a

summary and comparison of the three streams of passion research in Table 1, together with the theoretical underpinnings and sample measures. We briefly summarize each below.

General passion makes reference to one's love of, or intense affective state toward, work (e.g., Baum & Locke, 2004) and is the least explicit in terms of the theoretical foundations from which it draws. The core premise of general passion – that passion for work provides employees with the perseverance and drive to achieve work goals and sustain positive feelings from work – builds on arguments from theories of both motivation (e.g., intrinsic motivation; Porter & Lawler, 1968) and affect (e.g., positive affect maintenance model; Isen, 2000).

In contrast, the *dualistic model of passion* refers to one's liking or love for an activity and the internalization of this activity into one's identity. In this approach, passion can either be *harmonious*, which is associated with autonomous internalization of the activity; or *obsessive*, which is associated with controlled internalization (Vallerand et al., 2003). The foundational arguments of the dualistic model stem from self-determination theory (Deci & Ryan, 2000) that differentiates among various forms of internalization and the associated outcomes of each.

Finally, *role-based passion* emphasizes "consciously accessible, intense positive feelings experienced by engagement in entrepreneurial activities associated with roles that are meaningful and salient to the self-identity of the entrepreneur," and is applied to the three roles that entrepreneurs often take on, including developing, founding, and inventing (Cardon et al., 2009, p. 517). Inherent in this passion definition are the elements of (a) intense positive feelings; (b) centrality or salience of the entrepreneurial roles to one's self-identity; and (c) role- or domain-specific nature of passion. Role-based passion research draws from self-regulation theory (Carver & Scheier, 1998) as the foundation, arguing that passion triggers various self-regulation

processes (e.g., regulating internal feeling states and behaviors) that help one achieve work goals and maintain or enhance positive feelings, especially in the context of entrepreneurship.

Although all three research streams construe passion as a motivational construct and draw on various motivational theories to describe how passion provides the drive and perseverance toward goal achievement, it is important to note that passion is distinct from other motivational constructs such as intrinsic motivation, flow, calling, and engagement. In fact, previous research has provided detailed theoretical comparisons between passion and a host of other constructs (e.g., Ho & Astakhova, 2018; Vallerand, 2015), and empirical studies have also demonstrated the unique value of passion while controlling for variables such as intrinsic motivation and job satisfaction (e.g., Ho, Wong, & Lee, 2011; Liu, Chen, & Yao, 2011). In short, previous research demonstrates that passion is a more stable, less transient property than short-term, in-the-moment experiences like flow and absorption. To the extent that passion involves an activity becoming part of one's identity, it is also distinct from motivational constructs that lack this identity aspect. Thus, we agree with previous researchers that passion has a unique place in the motivation literature (Ho & Astakhova, 2018; Vallerand, 2015).

The Similarities and Differences Among the Three Streams of Passion Research

Although the three streams of passion research emerge from, and build on, different theoretical perspectives, they nonetheless share one key commonality in that all encompass strong positive feelings as a defining feature (see Table 1). Specifically, they all implicitly draw upon the hedonistic approach to well-being and argue that passionate people make significant work-specific investments in order to continue experiencing positive affect and well-being from their work (Diener, 1984; Kahneman, Diener, & Schwarz, 1999). Yet, despite certain commonalities, several differences also exist between the streams.

First, both the dualistic and role-based models encompass an internalization component that is not included in the conceptualization of general passion. Specifically, the dualistic model specifies that a passionate activity is something that an individual finds important and identifies with; and, the role-based model requires a passionate role to have identity meaning and salience. Thus, these two models go beyond mere positive affect to incorporate a deeper identity or internalization aspect, which also accounts for empirical findings that passion has unique value even after accounting for positive affect (Cardon, Gregoire, Stevens, & Patel, 2013; Vallerand et al., 2003).

Second, the ways in which the internalization component is conceptualized vary between the dualistic and the role-based models. Specifically, even though the former differentiates between two forms of internalization based on whether work is internalized voluntarily or because of certain contingencies and outcomes attached to it, the latter differentiates internalization based on three distinct entrepreneurial roles, such that an individual may internalize some roles but not others.

Third, because the dualistic model acknowledges that work can be internalized in a functional way (i.e., an autonomous form) or in a pressured or dysfunctional manner (i.e., a controlled form), research in this stream has examined both favorable and unfavorable outcomes associated with passion. Such research has documented that, despite the overall strong positive feelings one has toward work, passion can sometimes yield unfavorable outcomes. In contrast, the other two models have mainly focused on favorable (i.e., positive) outcomes resulting from passion, with few studies investigating unfavorable or dysfunctional outcomes.

Finally, one additional difference is the domain in which each stream is studied. The majority of studies focused on general passion and role-based passion have been conducted in

the domain of entrepreneurship. And, with few exceptions (e.g., Ho & Pollack, 2014), the dualistic model has not been applied in the entrepreneurship context, but instead in settings such as internet gaming, gambling, academics, sports, and interpersonal relationships and health (Curran et al., 2015), representing a lack of opportunity for related literatures to build upon one another.

Considering the similarities and differences among the three streams of passion research, we offer one formal research question.

Research Question: Will the three streams of passion research have consistent or divergent effects across similar work-related outcomes?

Exploring this research question in our meta-analysis will (a) delineate whether or not each stream is distinct, or whether construct proliferation has led to a variety of overlapping constructs that are not empirically distinguishable; and, (b) provide insights and clarity into whether some forms of passion are beneficial for promoting certain outcomes versus others. We turn next to a discussion of the work-specific outcomes of the three streams of passion research and the particular hypotheses for each stream.

Stream-Specific Hypothesis Development

General passion. Research on general passion, primarily carried out in entrepreneurship contexts (e.g., Baum et al., 2001), defines passion as "an entrepreneur's intense affective state accompanied by cognitive and behavioral manifestations of high personal value" (Chen, Yao, & Kotha, 2009, p. 201). Here, passion is contextualized as "emotions of love, attachment, and longing" (Baum & Locke, 2004, p. 588), "selfish love of the work" (Shane, Locke, & Collins, 2003, p. 268), and "enthusiasm, joy, and even zeal" (Smilor, 1997, p. 342).

The core premise in this stream is that passion, as an intense positive affective state, serves as a motivating force that then shapes individuals' thoughts and actions. In turn, studies in this stream draw on either motivational theories or theories of positive affect to explain how passion shapes outcomes. From a motivational standpoint, researchers have argued that the love, enthusiasm, and zeal that one has for work acts as an intrinsic force that compels the individual to spend long hours thinking about and working on the task, and to commit to deliberate practice so as to acquire the necessary skill-sets to succeed (Baum & Locke, 2004; Chen et al., 2009; Smilor, 1997). Beyond contributing to such intensity of effort, passion is also expected to manifest in persistence and resilience in the face of challenges and obstacles (Baum & Locke, 2004). Thus, general passion, in the form of intense positive feelings toward one's work, acts as a motivational affective force that then manifests in positive psychological states—defined as "feelings and/or beliefs concerning the employee's relationship with an organization"—as well as attitudes toward work (e.g., empowerment, job satisfaction, job tension, self-efficacy) and functional behaviors such as high persistence and intensity of effort (Meyer & Allen (1991, p. 62).

Theories of positive affect, including the affect infusion model (Forgas, 1995), the broaden-and-build theory (Fredrickson, 2004), and Isen's foundational works on positive affect (e.g., Isen, 2000; Isen & Daubman, 1984), provide a second perspective on how general passion shapes work outcomes. Specifically, positive feelings cue retrieval of positive material in memory, facilitate flexible thinking and problem solving (Isen, 2000), promote top-down, deductive thinking (Forgas, 2008), and broaden one's repertoire of thoughts and actions (Fredrickson, 2004). Positive affect not only yields positive work attitudes and psychological states but also generates positive behaviors including greater persistence, resilience, and

creativity (e.g., Isen & Daubman, 1984; Isen & Reeve, 2005; Trope, Ferguson, & Raghunanthan, 2001). The motivational and positive affect perspectives explain why general passion drives individuals to be invested in the passionate activity, have a positive mindset toward it, and devote significant time and effort to that activity such that they become successful at it.

Preliminary support for our theoretical contention is in empirical findings confirming the general passion-positive affect relationship (Cardon, Sudek, & Mitteness, 2009). Researchers have also found positive effects on work attitudes, such as job satisfaction and organizational commitment, and on motivational states such as intrinsic motivation (McAllister, Harris, Hochwarter, Perrewe, & Ferris, 2017; Pertulla, 2004). Finally, some studies have linked general passion to positive behaviors such as tenacity and creativity (De Clercq & Belausteguigoitia, 2017, 2019). Regarding negative outcomes, to our knowledge empirical research is silent. Thus, we only posit the following set of hypotheses, drawing on extant theory and evidence.

Hypothesis 1a. General work passion is positively related to positive affect.

Hypothesis 1b. General work passion is positively related to positive psychological states and attitudes.

Hypothesis 1c. General work passion is positively related to positive work behaviors.

Dualistic model of passion. In contrast to the relatively narrow definition of general (and, again, mostly entrepreneurial) passion that focuses almost exclusively on positive affect and the emotions associated with passion, the dualistic model of passion explicitly incorporates affective, cognitive, and behavioral components (Chen, Liu, & He, 2015). Originally advanced by Vallerand and colleagues (2003), this passion model conceptualizes the construct as a strong inclination toward an activity that people like (i.e., affective component), that they find important and identify with (i.e., cognitive component), and in which they invest significant time and

energy (i.e., behavioral component). In particular, the dualistic model requires that the activity be internalized in one's identity, a characteristic lacking in the general passion construct.

Originating from self-determination theory (Deci & Ryan, 2000), the dualistic model differentiates between two forms of passion – harmonious and obsessive – based on how the passionate activity is internalized into one's identity. Harmonious passion is associated with an autonomous form of internalization, meaning that individuals voluntarily accept an activity as important to them without any contingencies or pressures. As such, individuals willingly engage in the activity and do not feel compelled or pressured to do so (Vallerand et al., 2003). In the work context, individuals with harmonious passion engage in their work because of certain inherent characteristics of the work itself (e.g., enjoyable, challenging) (Vallerand & Houlfort, 2019; Vallerand et al., 2014). Additionally, because of the autonomous or volitional nature with which work is internalized into their identities, harmoniously passionate individuals are able to balance work with other aspects and obligations of their lives (Vallerand, 2015). Consequently, they not only report more positive affect like fun and enjoyment, but also less negative affect like guilt and anxiety, when engaging in the activity (Vallerand et al., 2003).

Extending from this, to the extent that autonomous internalization allows individuals to fully immerse themselves into their work without feeling guilty or distracted, they have been found to experience more positive (and less negative) psychological states, such as a sense of deeper absorption and cognitive engagement, as well as more positive (and less negative) work attitudes (e.g., job satisfaction, organizational commitment) (Burke, Astakhova, & Hang, 2014; Ho et al., 2011). These positive affective, psychological, and attitudinal experiences, together with the mastery orientation they have toward work (Vallerand et al., 2003), also account for the positive behaviors associated with harmonious passion, whereby the former induces the

individual to work harder, be more persistent, and ultimately perform better than individuals without such passion (Dubreuil, Forest, & Courcy, 2014; Ho et al., 2011).

Hypothesis 2a: Harmonious passion is positively (negatively) related to positive (negative) affect.

Hypothesis 2b: Harmonious passion is positively (negatively) related to positive (negative) psychological states and attitudes.

Hypothesis 2c: Harmonious passion is positively (negatively) related to positive (negative) behaviors.

In contrast to harmonious passion, obsessive passion is associated with a controlled form of internalization, whereby individuals feel pressured to engage in an activity, rather than doing so volitionally. This sense of pressure can derive from intrapersonal (e.g., an uncontrollable sense of excitement when doing the activity) or interpersonal (e.g., esteem and recognition associated with the activity) sources. Obsessively passionate individuals cannot help but pursue the activity, such that it comes to control a person, occupies a disproportionate amount of a person's identity, and conflicts with other aspects of a person's life. Consequently, even though obsessively passionate individuals love what they do, the conflicted and compulsive nature of obsessive passion takes its toll on their affective experiences, such that they experience less positive affect (e.g., enjoyment) and more negative affect (e.g., guilt, anxiety) when performing the activity and also when prevented from doing it (Vallerand et al., 2003; Vallerand, Paquet, Philippe, & Charest, 2010). In turn, these affective experiences, together with the sense of conflict and pressure, prevent individuals from fully immersing themselves in the activity and induce a performance orientation focused on outperforming others rather than learning and

gaining mastery (Vallerand et al., 2007), thereby resulting in less positive (more negative) psychological states (e.g., emotional exhaustion; Donahue et al., 2012).

In terms of attitudinal outcomes, some scholars have contended, with empirical support, that the negative psychological states induced by obsessive passion will contribute to less positive (more negative) work attitudes, such as work satisfaction and turnover intention (Houlfort, Philippe, Vallerand, & Ménard, 2014; Thorgren, Wincent, & Sirén, 2013). At the same time, other studies either failed to find a significant link to work attitudes (Carbonneau, Vallerand, Fernet, & Guay, 2008) or found a positive link instead (Burke et al., 2014; Forest, Mageau, Sarrazin, & Morin, 2011). Similarly, the behavioral implications of obsessive passion remain uncertain. On one hand, some have argued and found support for the contention that the negative psychological states stemming from obsessive passion will detract from work performance (Kong & Ho, 2018). On the other hand, others have observed that the organizational identification induced by obsessive passion facilitates work performance (Astakhova & Porter, 2015). Thus, because there is no strong a priori evidence or an established theoretical basis to predict how obsessive passion will relate to work attitudes and behaviors, we do not offer any formal hypothesis for those outcomes but, instead, look to the meta-analytic results to shed light on the potential relationships with attitudes and behaviors.

Hypothesis 3a: Obsessive passion is negatively (positively) related to positive (negative) affect.

Hypothesis 3b: Obsessive passion is negatively (positively) related to positive (negative) psychological states.

Role-based passion. Cardon and colleagues (2009) advanced a third stream of passion research by proposing not only that entrepreneurial passion involves intense positive feelings,

but also that entrepreneurial activities relate to a meaningful and salient self-identity. In other words, it is the complementary or multiplicative relationship between intense positive feelings and identity centrality of a specific entrepreneurial role that makes up role-based passion (Cardon et al., 2013). This conceptualization of passion is similar to the dualistic model in emphasizing the identification component; and, this stream explores how entrepreneurs may be differently passionate about three unique role identities – developer, founder, and inventor (Cardon, 2013; Cardon et al., 2013). Passion for developing consists of growing and expanding a venture after its founding and was proposed to positively relate to entrepreneurs' persistence and absorption. Passion for founding involves assembling resources (e.g., financial, human, social) to create a new venture and was proposed to enhance creative problem solving and persistence. Passion for inventing revolves around seeking out new ideas or market opportunities and developing new products or services and was proposed to foster creative problem-solving behaviors (Cardon et al., 2009, 2013).

Entrepreneurial passion research draws primarily on self-regulation theory to explain how such passion relates to various work outcomes. Self-regulation theory focuses on individuals' goal-directed, self-regulation processes, in which goals are crucial in providing direction and clarity to individuals (Carver & Scheier, 1998). In the context of entrepreneurial passion, such passion "mobilizes an entrepreneur's self-regulation processes that are directed toward effectiveness in the pursuit of the corresponding entrepreneurial goal" (Cardon et al., 2009, p. 518). Specifically, the self-regulation processes triggered by entrepreneurial passion shape one's goal-related cognitions (e.g., goal challenge, commitment, striving) and, in turn, behaviors. For instance, because the entrepreneurial role is central and deeply meaningful to passionate entrepreneurs' self-identities, they are more likely to be committed to that role and persistent in

pursuing activities related to that role (Cardon & Kirk, 2010; Cardon et al., 2009). Additionally, because the passionate role is associated with intense positive feelings, entrepreneurs not only experience positive affect when engaged in role-specific activities (Murnieks, Mosakowski, & Cardon, 2011) but are also likely to regulate their responses to maintain or enhance such feelings (Cardon et al., 2009). Further, entrepreneurial passion allows individuals to recognize unique patterns and relationships in their environment, thereby facilitating creative problem-solving and pursuit of novel and creative paths of action (Cardon et al., 2013). Together, these positive experiences are then expected to enhance one's effectiveness in the different entrepreneurial roles (e.g., venture growth for the developer role; venture creation for the founder role; opportunity recognition for the inventor role) (Cardon et al., 2009).

It should be noted that of the three passion streams, research in role-based passion is in a comparatively early stage, given that the construct was introduced in the late 2000s (e.g., Cardon et al., 2009). Consequently, the body of work on role-based passion is small and insufficient to make predictions about different categories of outcomes (e.g., affect vs. behavior). Likewise, empirical evidence is lacking with regard to negative outcomes of role-based passion; thus, we only posit the following hypotheses on positive work outcomes in general.

Hypothesis 4a: Passion for developing is positively related to positive work-specific outcomes.

Hypothesis 4b: Passion for founding is positively related to positive work-specific outcomes.

Hypothesis 4c: Passion for inventing is positively related to positive work-specific outcomes.

Methods

We searched ERIC, ABI/INFORM, PsycINFO, Google Scholar, and ProQuest Dissertations and Theses using various search term combinations that were based on our knowledge of the literature including "passion," "harmonious passion," "obsessive passion," "entrepreneurial passion," "inventing," "developing," "founding," "role-based passion," "working excessively," "working compulsively," and "passion addiction." We also legacy searched key articles by references, emailed individual scholars who publish in this area, as well as posted to the listservs for the Academy of Management's Organizational Behavior and Entrepreneurship Divisions searching for in press and file drawer manuscripts. Our first search was current through 2016. And, in that search, we identified 745 citations for possible inclusion. After duplicates, popular press articles, news articles, books and press releases were deleted, we were left with 402 full-text articles that we accessed for eligibility. Of these, 81 were not empirical, 34 were qualitative, 20 were case studies, 211 did not study our constructs of interest, and 2 did not report sufficient data. This left us with 54 possible articles. While our paper was under review and in revision, we kept track of new articles published, that met our search criteria described below, and our meta-analysis is now current through June 2019 (this included results received from additional emails to relevant scholars and additional listsery posts). Ultimately, we identified 87 manuscripts, containing 106 different samples and 384 effect sizes (total unique N = 38,481; 43.54% women, average age is 38.04).

We had five inclusion criteria, and we placed no language restrictions on these articles. First, we must have been able to compute a bivariate relationship (e.g., *d*, *r*, group means and SDs) that could be used to obtain an effect size. Second, some form of passion must have been included (e.g., general passion, dualistic passion, role-based passion). Third, each effect size must have reflected a unique sample. In cases in which a study used multiple samples, we

included each sample as a separate entry if it met the other inclusion criteria. Fourth, the study must have included at least one quantifiable passion-related process or outcome. Fifth, the study must have measured individuals' naturally occurring passion, not an experimentally manipulated report of passion.

Excluded Studies

We excluded distinct constructs such as work engagement (vs. harmonious passion) as well as working excessively (vs. obsessive passion) (e.g., Gorgievski, Bakker, & Schaufeli, 2010). However, as noted above, we did include some of these terms (i.e., working excessively, working compulsively, and passion addiction) in our initial search. We did this to make sure we were as comprehensive as possible in our identification of potential articles to consider for inclusion. We deemed it possible for a study to not use the word passion (e.g., working excessively, working compulsively) yet still study something that we would want to include. Furthermore, as our focus was on the work context (versus non-work; Curran et al., 2015), we excluded, for example, research related to passion and gaming (e.g., Wang, Liu, Chye, & Chatzisarantis, 2011), gambling (e.g., Back, Lee, & Stichfield, 2011), drug use as well as types of addiction (e.g., Davis & Rosenberg, 2015; Rosenberg & Kraus, 2014).

Coding and Analysis Approach

We captured all the constructs detailed in the included manuscripts and their relations with the three forms of passion. Consistent with best practices, we focused on constructs that appeared three or more times in the literature. As seen in Tables 2 through 5, we identified numerous constructs that were present three or more times. Notably, compared to Curran et al. (2015), we were able to include important work-specific outcomes (e.g., job satisfaction, commitment, creativity, business performance, OCB) that they could not due to the limited

number of work-specific studies they compiled. Thus, this is one key way in which our results extend beyond theirs.

With regard to our analyses, we used Hunter and Schmidt's (2004) psychometric metaanalysis approach and corrected for measurement error in the predictor and outcome for all bivariate meta-analyses.

Results

In the following section, when comparing findings across streams where k's were small we focus on the raw magnitude of differences as opposed to formal tests that rely on null hypothesis significance testing. This is because meta-analyses with a small number of studies often have fairly large standard errors and even large differences in magnitude can still have confidence intervals with slight overlap. Overall, as the passion literature continues to develop and mature, more appropriate tests such as meta-ANOVA and subset analysis can be employed to give more precise estimates of differences across streams.

With regard to Hypothesis 1a and Hypothesis 1b related to general passion, we found support for the inference that general passion is positively related to positive affect (ρ = .309) as well as positive psychological states (empowerment, ρ = .512; self-efficacy, ρ = .293) and job satisfaction (ρ = .424) (see Table 2). With regard to Hypothesis 1c, we found support for the inference that general passion is positively related to positive work behaviors (creativity, ρ = .234; innovativeness, ρ = .346; preparedness, ρ = .492; performance, ρ = .415). Interestingly, although we did not have sufficient basis to predict how general passion would relate to negative outcomes, the results show that general passion was not significantly related to negative affect (ρ = -.073, not significant) or to job tension (ρ = .032, not significant).

We present the results for the dualistic model of passion in Table 3 for harmonious passion and Table 4 for obsessive passion. With regard to harmonious passion outcomes, we found support for Hypothesis 2a, in that harmonious passion was positively related to positive affect ($\rho = .777$) and negatively related to negative affect ($\rho = -.312$). Additionally, Hypothesis 2b was supported in that harmonious passion was positively related to positive psychological states (e.g., absorption, $\rho = .485$; attention, $\rho = .498$) and positive attitudes (e.g., commitment, $\rho = .710$; job satisfaction, $\rho = .720$; life satisfaction; $\rho = .406$), including more autonomous forms of motivation (e.g., autonomous motivation, $\rho = .821$, intrinsic motivation, ρ = .512). Harmonious passion was also negatively related to negative psychological states, including various forms of stress reactions (e.g., burnout, $\rho = -.610$; psychological distress, $\rho =$ -.436), and to turnover intention ($\rho = -.346$). Another finding of note is that harmonious passion was not significantly related to more controlled forms of motivation (e.g., controlled motivation, $\rho = -.171$, not significant; extrinsic motivation, $\rho = -.003$, not significant). Finally, there was some support for Hypothesis 2d in that harmonious passion was positively related to creativity (p = .348) and performance (ρ = .292). However, we did not find a positive link between harmonious passion and OCB ($\rho = .167$, not significant), nor did we find a negative behavioral outcome for which there was sufficient studies to include in analyses.

For obsessive passion, we found some support for Hypothesis 3a, in that obsessive passion was positively related to negative affect (ρ = .150). Contrary to our hypothesis, however, we found a positive relationship between obsessive passion and positive affect (ρ = .300), thereby pointing to the conflicted nature of obsessive passion. The results for Hypothesis 3b were mixed, in that obsessive passion was positively related to one's sense of efficacy (ρ = .114) and autonomous motivation (ρ = .288), but not to other positive psychological states such as

engagement (ρ = -.110, not significant) and flow (ρ = .163, not significant). The results for negative psychological states, however, were more consistent, in that obsessive passion is positively related to these states (e.g., burnout, ρ = .460, emotional exhaustion, ρ = .312; psychological distress, ρ = .140), including more controlled forms of motivation (controlled motivation, ρ = .273; extrinsic motivation, ρ = .200).

For attitudinal outcomes, which we did not hypothesize, we found that obsessive passion was positively related to commitment (ρ = .334), identification (ρ = .425), and job satisfaction (ρ = .143). However, there was not a significant relationship between obsessive passion and turnover intention (ρ = -.044, not significant) or life satisfaction (ρ = .036, not significant). Not surprisingly, the results for behavioral outcomes were also inconsistent, in that obsessive passion was positively related to hours worked per week (ρ = .268) and OCB (ρ = .126), but not performance (ρ = .129, not significant). The wide ranges of the credibility intervals for OCB and performance also suggest that the true relationships can vary greatly and that moderating conditions may play key roles in modifying these relationships. Finally, although we did not hypothesize a relationship between harmonious and obsessive passion, we observe that the overall relationship is small and positive (ρ = .207), but the 95% CI (.097; .241) and the 80% CV (-.218; .631) indicates that across subpopulations, the true relation can range greatly (see Table 3).

In relation to role-based passion, the outcomes are more limited compared to the other two streams of passion (see Table 5). Nonetheless, the results indicate that all three forms of role-based passion (i.e., developing, founding, and inventing) were positively related to positive affect ($\rho = .466$, .371, .403, respectively) and efficacy ($\rho = .470$, .553, .689, respectively), consistent with Hypotheses 4a, 4b, and 4c. Additionally, passion for inventing was positively

related to one's creativity (ρ = .672). It is also worth noting that all three forms of role-based passions were positively related to one another, which may underscore the need to control for the other two forms of role-based passion when examining the effect of passion for a specific role.

Cross-Stream Comparison of Findings

Our research question asks whether the three streams of passion research have consistent or divergent effects across similar work-related outcomes. Examining Tables 2 through 5 reveals multiple overlapping constructs.

Affect. Positive affect has been examined by all three passion streams and was positively related to general passion (ρ = .309), harmonious passion (ρ = .777), obsessive passion (ρ = .300), passion for developing (ρ = .466), passion for founding (ρ = .371), and passion for inventing (ρ = .403). Here, the magnitude of effects appears to differ across the forms of passion, with harmonious passion having a stronger effect relative to the others.

For negative affect, although role-based passion research has not examined negative affect as an outcome, the other two streams have done so and found a non-significant link with general passion (ρ = -.073, not significant), a negative relation with harmonious passion (ρ = -.312), and a positive relation with obsessive passion (ρ = .150). Of the few outcomes that have been examined across different passion streams, negative affect displayed the most differentiated results (i.e., positive, negative, non-significant), thereby offering some evidence that the different forms of passion are indeed distinct.

Psychological states and attitudes. Self-efficacy has been studied in all three research streams and was positively related to all forms of passion, specifically general passion (ρ = .293), harmonious passion (ρ = .398), obsessive passion (ρ = .114), passion for developing (ρ = .470), passion for founding (ρ = .553), and passion for inventing (ρ = .689). These results provide

nuanced findings in that self-efficacy was more strongly related to the more specific role-based forms of passion than to general passion or the dualistic model of passion.

In terms of work attitudes, job satisfaction has been studied from a general passion perspective (ρ = .424) as well as with harmonious passion (ρ = .720) and obsessive passion (ρ = .143). These results indicate that harmonious passion is more strongly related to job satisfaction, followed by general passion. While obsessive passion had a positive relationship, the width of the 80% CV indicates that the relation may vary across subpopulations.

Behavior. Creativity has been studied from a general passion perspective (ρ = .234) as well as with harmonious passion (ρ = .348) and passion for inventing (ρ = .672). These results indicate that there are different magnitudes of effects across the streams of passion, such that passion for inventing is most strongly related to creativity, thereby suggesting that distinguishing between role-specific forms of passion may be valuable when exploring role-specific forms of behavior.

Test of Publication Bias

Using Duval and Tweedie's (2000) trim and fill technique as our primary test, we examined the passion relationships for signs of publication bias. Consistent with best practice recommendations by Kepes, Banks, McDaniel and Whetzel (2012), we supplemented the trim and fill tests with two other commonly used publication bias techniques—Egger's test of the intercept (Egger, Smith, Schneider, & Minder, 1997) and cumulative meta-analysis drift (McDaniel, 2009). All publication bias techniques are vulnerable to second order sampling error resulting in both Type I and II errors when the number of included studies is small, but the definition of small varies in the methods literature, with most defining the minimum number of studies to achieving viable estimates between five and ten (e.g., Herrmann, Sinnett, Holmes,

Khan, Koller & Vassar, 2016; Shi & Lin, 2019). We tried to strike a balance between conservative estimation and breadth of coverage by setting the minimum number of studies to seven. With that said, we stress that, all else equal, the larger the k, the more confidence one should have in the results.

In sum, there were 10 passion relations examined for publication bias and we ran all tests in R using the metafor package (Viechtbauer, 2010). For each analysis, we searched for asymmetry in the opposite direction of the effect size. If there were systematic suppression of studies, we would expect it to occur for studies showing weaker than average or opposite effects to the overall observed relationship. Of the 10, none showed signs of potential effect size inflation due to publication bias. In sum, there is little evidence at present that the passion correlations are meaningfully influenced by publication bias. ¹

Multivariate Meta-Analysis

We considered a number of multivariate tests using meta-regression and meta-analytic structural equation modeling (MASEM). Although these tests are commonly employed in meta-analyses, recent concerns over their validity when (a) the number of included studies is small (Viechtbauer, Lopez-Lopez, Sanchez-Meca, & Marin-Martinez, 2015), (b) there are large amounts of true score variance (Yu, Downes, Carter, & O'Boyle, 2016), and (c) underlying assumptions are violated (e.g., Lv & Maeda, 2019; Yu, Downes, Carter, & O'Boyle, 2018) raise serious concerns over their appropriateness in many OBHR contexts.

Our sample sizes range from several hundred to tens of thousands, and this gives us confidence in the bivariate estimates presented in Tables 2 through 5. However, we assessed many of the relations with only a handful of studies, making tests of meta-regression (where k is

¹ The full publication bias results (i.e., trim-and-fill, Egger's test, and drift analysis) are available from the authors.

the unit of analysis) susceptible to second order sampling error, overfitting, and increased Type I error rate (Gonzalez-Mule & Aguinis, 2018). For MASEM, the two dominant techniques either ignore true score variance in the individual correlations (e.g., Viswesvaran & Ones, 1995) or attempt to essentially covary it out (Cheung & Chan, 2005). Regarding the former, the correlations that would make up the passion matrix to be analyzed had significant true score variance. Thus, the resulting parameter estimates and fit statistics would only generalize to the small, potentially non-existent populations that are at (or are very close to) the weighted mean estimate for every correlation in the matrix. Regarding the latter, assumptions that study-level data are missing completely at random or missing at random (i.e., no publication bias, no questionable research practices, no systematic suppression of results in any way whatsoever) and that accurate estimates can be generated when total missing data typically exceeds fifty percent (50%) are as untenable with our data as they are with most social science data (Lv & Maeda, 2019; O'Boyle, DeSimone, Barrick, & Ryu, 2019). In sum, we considered the extant literature on passion and concluded that it has not yet reached a saturation point where the necessary number of studies and assumptions needed for multivariate meta-analytic techniques have been met.

Discussion

We embarked upon a comprehensive meta-analytic investigation of the three streams of passion research related to work. Our goals included meta-analytically examining (a) relationships contained *within* each of the three streams of passion research; (b) comparisons of relationships *across* the three streams of passion research; and (c) the utility of continuing to treat each of three streams separately versus combining two (or more) of the streams to avoid construct proliferation and enhance the parsimony of passion research. Our results revealed several important theoretical implications on the three passion research streams, both

individually and jointly, and shed new light on how researchers should think differently about passion research moving forward.

Theoretical Implications

Within-stream insights. Regarding the results of each separate passion stream, we illuminated multiple theoretically important nuances. In terms of general passion, we addressed the question of whether or not general passion is related to performance. Indeed, we find a positive and robust relationship. This finding suggests that the few studies documenting a non-significant link with performance (e.g., Baum & Locke, 2004) may be exceptions rather than the norm, and that there may be context-specific reasons accounting for non-findings. Although we also found that general passion demonstrated robust relationships with positive psychological states and job satisfaction, what is less clear is the link that general passion has with negative outcomes. We expected general passion to be negatively related to these outcomes, but the results did not support our hypothesis. Rather, the non-significant findings are suggestive of the fact that the positive aspects of general passion are perhaps sufficient to suppress negative outcomes, but insufficient to fully reverse such effects. Our findings point to the need to further explore whether general passion is related to negative outcomes and, even more importantly, what are the potential moderators that could influence these relationships.

In terms of the dualistic passion stream, we first observed that harmonious passion and obsessive passion are positively related, but the wide credibility interval indicates that there may be substantial variation in this relationship. Thus, it is important to consider contextual factors when determining when and how both forms of passion will be associated. Additionally, the findings relating to harmonious passion are consistent, in that it positively related to various types of affect, psychological states, attitudes, and behaviors. At the same time, a few

unexpected findings highlight the need for further investigation, specifically those relating to hours worked per week and OCB. Although we expected harmonious passion to enhance one's persistence (as manifested in hours worked), the results here were not significant. Potentially, this could be due to the fact that one's inclination to work long hours is countered by the ability to balance work with other non-work obligations, given the autonomous nature with which work is internalized into one's identity. Thus, working long hours may be more indicative of obsessive passion than harmonious passion.

Harmonious passion was also, surprisingly, not related to OCB. One explanation for this non-finding could come from Ho and colleagues (2018), who stated "the reach of harmonious passion is circumscribed to more interpersonal, narrower domains of citizenship behaviors" (p. 122). Thus, to the extent that previous measures of OCB encompassed both organization- and individual-targeted behaviors (i.e., OCB-O and OCB-I), this may account for the non-significant finding here. Even more importantly, this underscores the need for further studies to differentiate between OCB-O and OCB-I and examine whether harmonious passion is more connected to the latter compared to the former.

The findings for obsessive passion were less consistent, but nonetheless highlight several noteworthy patterns as well as areas that warrant further investigation. First, in contrast to the behavioral outcomes of harmonious passion described above, we found that obsessive passion was actually positively related to both OCB and hours worked, and yet was not related to performance. This finding not only underscores the behavioral differences between the two forms of passion, but also suggests that obsessive passion may not necessarily yield detrimental behavioral outcomes. Instead, the wide credibility interval of the performance outcome indicates

that obsessive passion may, under the right conditions, contribute to enhanced performance, an aspect that deserves further examination.

Second, although obsessive passion was related to various forms of negative psychological states, such as emotional exhaustion and psychological distress, it did not demonstrate a consistent pattern in regard to positive psychological states (e.g., efficacy, engagement); and, the negative psychological states also did not negatively impact one's attitudes or workplace behaviors. This pattern of results, together with the observation that obsessive passion was positively related to both positive affect as well as negative affect, attests to the conflicted nature of obsessive passion, wherein one's love for, and internalization of, work can yield functional outcomes, while the controlled nature of internalization can also yield dysfunctional outcomes. The findings also challenge the conventional wisdom that obsessive passion is always bad and point to the need for not only examining potential moderators that can accentuate positive outcomes and attenuate negative ones, but also opening the black box of mediating mechanisms that link obsessive passion to various outcomes. In particular, to the extent that there are opposing mediating mechanisms that counteract each other to contribute to the non-significant total effects of obsessive passion, it is worthwhile to examine such indirect mechanisms. Importantly, these findings and implications regarding the dualistic model of passion go beyond those offered in Curran et al.'s (2015) meta-analysis (where only 17 studies out of 67 focused on work-related outcomes), which further underscore the incremental value of focusing on work passion (as opposed to passion for a wide range of activities) and workspecific outcomes.

For role-based passion, this was the only stream that has not yet consistently explored negative outcomes, thereby rendering it unclear how, if at all, this form of passion shapes

negative reactions. Nonetheless, the findings in relation to the positive outcomes (i.e., positive affect, self-efficacy) are highly similar across the three roles (passion for developing, founding, and inventing). These findings, together with the strong positive correlations among the three types of passion, raise an interesting theoretical question as to whether there is value in distinguishing passion among these various roles. On one hand, the fact that creativity was more strongly related to passion for inventing than to harmonious or general passion suggests that role-based passion has incremental value over broader forms of work-based passion. On the other hand, the lack of outcome variables that were assessed across all three forms of role-based passion precludes any rigorous comparison. Thus, it remains unknown whether one form of role-based passion is more strongly related to certain outcomes than the other two. This also points to an area for further investigation in this fledging field of research, as more work is needed to examine which outcomes are differentially related to passion for a certain role, and which outcomes are associated with two or all three roles.

Across-stream insights. Although the previous discussion contributes, from a theory-based point of view, to research within each passion stream by highlighting patterns as well as areas that merit further investigation, comparing findings across research streams offers a second theoretical contribution. By examining the different conceptualizations of passion comprehensively in the domain of work for the first time, we illuminate the similarities and differences among the three streams of passion, which in turn affords greater opportunities for future research in terms of theoretical and empirical precision.

Passion for work, however conceptualized, was positively associated with positive affect, reflecting the fact that all three streams of passion encompass a love (or strong liking) for work.

What is less consistent across the streams is whether such positive affect actually translates into

positive attitudes and behaviors. Although Thoresen and colleagues' (2003) meta-analysis found that positive affect was positively correlated to positively-valenced attitudes, such as job satisfaction and organizational commitment, our findings suggest otherwise, particularly in the context of obsessive passion. Instead, our findings are more supportive of Thoresen et al.'s (2003) observation that there can be "substantial variability in affect—attitude correlations" (p. 932), particularly for constructs that involve "a mix of people's cognitive evaluations and affective reactions to their job situations" (p. 933). Thus, to the extent that passion goes beyond just positive affect, as conceptualized in the dualistic model and in role-based passion, this could explain why passion does not always yield positive attitudes and/or behaviors. Further, even though all three streams of passion research share some overlap in terms of having positive affect, this should not be seen as evidence that the three passion conceptualizations are similar and should therefore be combined. Instead, the cross-stream comparison points to the additional value offered by the dualistic model and role-based passion, both of which include an internalization component not assessed by general passion.

Relative to the other two streams, the additional explanative insights of the dualistic model can be seen in the outcomes of positive and negative affect and job satisfaction, all of which were more strongly related to harmonious passion versus general passion or role-based passion. To the extent that individuals not only love their work but also autonomously internalize it into their identities and view it as part of who they are, this could bolster their positive attitudes more so than simply love for one's work. Additionally, even though obsessive passion, relative to general passion, was less strongly associated with job satisfaction, this finding nonetheless underscores the importance of taking into account the internalization component. Specifically, when work is internalized in a pressured or controlled fashion (as represented by obsessive

passion), the positive affect–attitude correlation observed for general passion is diminished in the presence of such internalization. More broadly, this suggests that examining work passion solely as an affect, and/or without considering the nature of work internalization (autonomous vs. controlled), may provide only a partial accounting of work passion consequences.

Relative to the other two streams of passion research, the additional explanative insights offered by role-based passion can be seen in the outcomes of self-efficacy and creativity, the former of which is more strongly related to all three forms of role-based passion, and the latter by passion for inventing, compared to the dualistic model and general passion. Insofar as selfefficacy assesses one's confidence in the ability to perform well in a particular domain (Bandura, 1997), as opposed to self-esteem which assesses the overall value that one places on oneself, it is perhaps not surprising that one's passion for a specific domain of work is more prognostic than general passion or passion for work overall. Similarly, insofar as creativity is a narrower form of behavioral outcome than overall performance in the entrepreneurial context (e.g., financial performance, new venture growth), the fact that passion for inventing is highly prognostic of creativity attests to the incremental value of examining role-specific passion. Thus, in addition to demonstrating the importance of including an identity component to passion conceptualization, the findings also highlight the benefit of examining role-specific forms of passion (e.g., passion for research) when studying role-specific forms of outcomes (e.g., research productivity). Moving forward, given additional insights offered by exploring role-based passion (as compared to the other two streams), identity-related theories may be especially useful for subsequent development of role-based passion, especially as it relates to self-efficacy.

Together, the above findings show that although there is consensus that work passion, in its various conceptualizations, is beneficial in generating positive affect, there are also

considerable differences across the conceptualizations. In comparing the three streams of passion, we learned from findings in the dualistic model and the role-based approach, where including an internalization or identity component in passion tends to offer stronger prognostic value, and examining passion in a particular domain tends to be more strongly related to outcomes in that domain. And, from our findings comparing the three streams, we now know that an affect-only conceptualization of passion, as exemplified in general passion research, is inadequate for capturing a strong form of passion, and subsequent research should depart from using this conceptualization and terminology. Instead, researchers who assess only the affective component of passion may find it more appropriate to use affect-specific terms (e.g., "love for work") to avoid confusion and ambiguity as to what work passion entails and how it relates to various organizational constructs.

Our third contribution relates to ways in which scholars can integrate work passion research across streams and fundamentally think differently about the field of passion research. Specifically, knowing what we now do about the dualistic and role-based models of passion, rather than continuing to examine them independently, researchers need to adopt a more synergistic approach. Both streams of research are similar in that they encompass the internalization aspect of passion; however, the dualistic model adds unique value by taking into account the nature of *how work is internalized* – harmoniously or obsessively – and examining how each form of passion differentially relates to positive and negative outcomes. On the other hand, the role-based model, by examining passion for narrower, more specific work roles, offers higher prognostic power for narrower outcomes. What we recommend, moving forward, is that passion scholars consider integrating these two streams by examining both forms of passion for specific work roles (e.g., harmonious and obsessive passion for teaching vs. research, for

technical vs. managerial aspects of work). Additionally, the dualistic model can inform role-based passion research by highlighting the potential negative consequences that stem from passion and underscoring the need for role-based passion researchers to expand their investigation into possible dysfunctional outcomes. Doing so would advance passion research by providing an appropriately nuanced approach, thereby increasing the explanative power of the passion construct in relation to a more comprehensive (i.e., positive and negative) set of outcomes.

Although this is our recommendation, we also note that in order to accomplish this, researchers should pay more attention to the psychometric properties of these (and other newly developed) measures so as to facilitate greater precision in the assessment of passion and its antecedents and consequences.² In particular, we recommend that researchers should use updated measures of passion that capture both the positive affect and identity/internalization components. Cardon et al.'s (2013) measure, comprising the interaction of intense positive feelings and identity centrality, represents an exemplary approach, and we call for researchers to: (a) consider adopting Cardon's approach not just for entrepreneurial passion but also for passion outside of the entrepreneurship domain; (b) assess and compare the convergent and predictive validities of Vallerand's and Cardon's measures; and (c) control for positive affect when assessing passion outcomes so as to convincingly demonstrate that passion goes beyond positive affect.

Practical Implications

Considering that passion represents a possible cornerstone of employee development (Hagel, Brown, & Ranjan, 2014; Kang, 2006), our findings suggest that employers should try to increase individuals' harmonious work passion. Because passion emerges from within each individual, managers are not capable of directly increasing employee passion. However, they can

² Thanks to one of our anonymous reviewers for valuable insights here.

set the stage for passion to emerge from within by encouraging employees to be "active crafters" of their work (Rosso, Dekas, & Wrzesniewski, 2010; Wrzesniewski & Dutton, 2001), so that employees themselves make work-specific adjustments to enhance passion.

The findings relating to obsessive passion are also noteworthy in showing that obsessive passion does not unequivocally result in dysfunctional outcomes for workers and employers. Instead, there can be certain psychological and behavioral benefits stemming from obsessive passion, suggesting that opportunities exist for managers to create the necessary and right conditions that allow for the benefits of obsessive passion to manifest, and that suppress or mitigate the potential downsides of such passion. Thus, in line with Grant (2012), we concur that employers (e.g., via managers and/or leaders) have the opportunity to actively enable employees to view their work as meaningful.

Our findings are particularly relevant for the human resource functions of recruiting, training, and retaining employees (Huselid, 1995). In particular, the emerging trend of job sculpting, or tapping into individuals' life interests even if their immediate jobs do not take them into account, is relevant (Butler & Waldroop, 1999). In short, job sculpting facilitates a match between individuals and jobs so that their core life interests are nurtured and passion emerges. Options for integrating job sculpting with the present findings regarding passion include (a) enabling employees to write down their opinions about career satisfaction, and (b) asking questions that draw out employees' deeply embedded life interests. The next step would be for employers to consider adding a new responsibility and/or training opportunity that help an employee tap into a life interest and/or career goal. And, perhaps an option would be to change an employee's assignments to more fully match life interests to responsibilities (Butler & Waldroop, 1999). These actions could be done early in an employee's tenure so that employers

can identify whether or not a more major move such as a complete job change or even an amicable separation, if necessary, is done earlier versus later.

Overall, like Oldham and Hackman (2010, p. 463) note, we concur that the workplace is ideally "enriched rather than simplified." In short, the premise that work needs to be enriched coincides with emerging perspectives on the role of work, and passion, in individuals' lives. The concept of enjoying one's work and finding meaning at work is now the rule, rather than the exception (Crawford, 2009). And, in sum, we envision our findings being put into use in practice to support employees' passion development as well as the human resource functions of recruiting, training, and retaining employees.

Limitations and Future Research

As with all research, our study is not without limitations. One limitation is that we observed wide credibility intervals for some of our findings. Thus, we highlight the need to explore moderators of passion, particularly in the context of obsessive passion. Our data bolster the findings of Curran et al. (2015), who found that gender and age moderated relationships that passion has with various outcomes. Yet, much work has yet to be done, and future researchers should examine individual and/or situational factors. Related, in terms of comparing findings across streams where k's were small we focused on the raw magnitude of differences (versus formal tests that rely on null hypothesis significance testing). In the future, as the passion literature evolves, more appropriate tests such as meta-ANOVA and subset analysis can be employed to give more precise estimates of differences across streams relative to our initial work here.

Related, we were unable to examine many potential theory-based moderators. For example, we would have liked to test multiple moderators related to national culture (e.g.,

individualism, power distance, uncertainty avoidance, masculinity). Although national culture is a continuous variable in the population, in our dataset it is mostly invariant. Passion research to date has largely been conducted in the U.S. and Canada (although it is worth noting that passion research in Western Europe is on the rise). However, at present, culture is either invariant or heavily skewed towards a U.S.-centric interpretation. This is partially a function of the work-specific focus of the present research, whereas Curran et al. (2015) examined a more diverse set of contexts (e.g., gaming, gambling, recreational sports, relationships).

Another limitation is that the present work could not reveal insights related to how passion develops, changes over time, and is either amplified or attenuated at work (Cardon, Zietsma, Saparito, Matherne, & Davis, 2005). Although this task was beyond the scope of the present work, we recognize that there is much room for refinement and development here, and we call for future researchers to revise and update passion measures so as to better and more explicitly assess both affective and cognitive components of passion, and to control for positive affect when examining passion outcomes to more convincingly demonstrate the predictive value of work passion. Insights here have the potential to inform future experiments and field interventions aimed at increasing individuals' passion at work (Thorgren & Wincent, 2013, 2015). Recent work by Gielnik, Spitzmuller, Schmitt, Klemann and Frese (2015) is an exemplar as they used a longitudinal field study and experimental methods across two studies.

Finally, we acknowledge that there were vastly different numbers of studies included within each of the three streams of passion included in our meta-analysis (i.e., greater numbers in the dualistic stream relative to general and role-based). Thus, a question could be raised as to the added theoretical contribution of including all three streams of passion research, rather than focusing on only one or two more developed streams. However, we believe that including all

three streams allows us to contribute theoretically in ways that would not be possible by focusing on one or two streams of passion research alone. For example, including the dualistic model shows the incremental value of differentiating between harmonious and obsessive forms of passion and examining negative outcomes stemming from passion, which could not have been found had we focused solely on general or role-based passion. From a theoretical perspective, this helps us better conceive of how future research can approach the study of passion in work-specific outcomes, as knowing that passion needs to be viewed in terms of both harmonious and obsessive types adds theoretical clarity to the current landscape. Including the general passion model was also useful in providing a basis of comparison to show that the passion-as-affect conceptualization is insufficient, and that the internalization component is critical to passion. We could not have understood the importance of internalization if we did not have this stream to compare against. Based on our findings, we now know that a more theoretically rich approach to passion—that involves definitions that take into account the importance of internalization—is the perspective that future research should adopt.

Moving forward, we suggest four additional opportunities for research. First, researchers should examine the negative effects (or "dark side") of passion. At present, we have relatively little knowledge of how and when passion is related to negative employee or organizational outcomes. This is a theoretical shortcoming in the literature, and given the prevailing theme as to the positive effects of passion, there is a need to provide a more balanced perspective and acknowledge the potential dysfunctions of passion as well.

Second, building on our conclusions above, we recommend that passion researchers: (a) adopt the dualistic approach, and (b) focus on specific job facets. Future work could explore harmonious and obsessive passion for specific work roles, such as sales, marketing, and financial

analysis, to provide a more nuanced picture of how passion in its various forms relates to the activities and roles that individuals engage in at work. Related, we strongly suggest that future work on passion include multiple measures of passion, across the streams, to enable further cross-stream comparisons in terms of convergent validity. Here, we also make a plea that researchers begin to examine the predictive incremental validity of passion above and beyond other constructs in predicting work-specific outcomes.³

Third, because obsessive passion was not as strongly related to various attitudes and behaviors as its harmonious counterpart, this suggests the presence of unidentified moderators that might accentuate or suppress the effects of obsessive passion, and/or multiple mediating pathways that counteract each other, thereby manifesting in weak linkages between obsessive passion and its outcomes. Future researchers should consider the roles of individual and situational moderators when exploring how obsessive passion relates to work outcomes and also examine more complex models that account for the mediating relationships that link passion to affect, psychological states and attitudes, and, ultimately, behaviors. Unfortunately, across all three passion research streams, there is a dearth of work that tests such models. Rather, most models test only affect and attitudes but not behavior (Breugst, Domurath, Patzelt, & Klaukien, 2011), or test behaviors but not both affect and attitudes (e.g., Ho & Pollack, 2014; Mitteness, Sudek, & Cardon, 2012). Thus, we advocate that future research adopt a mediated framework that explores the affective and psychological mechanisms through which passion relates to behaviors.

Fourth, in terms of outcome variables, we recommend that research in role-based passion expand these to include more behavioral outcomes, particularly those that assess narrower, more

³ Thanks to one of our anonymous reviewers for valuable insights here.

role-specific forms of behaviors. More broadly, future research on work passion should examine interpersonal-related outcomes of passion. Much of the extant work examines intrapersonal outcomes (e.g., satisfaction, commitment, positive affect). On only a few occasions (e.g., Ho & Pollack, 2014) have researchers delved into how work passion affects individuals' relationships with other people (e.g., team-member exchange, quality of relationships). This represents a valuable line of work that future research can explore, particularly in view of the possibility that passion can be contagious (Cardon, 2008).

Conclusion

The three streams of passion can help us understand how we feel, think, and act with regard to the world around us, including for example, how we feel about work, how committed we are to our occupation, and how well we perform at work. The present meta-analysis points to the important role that passion plays and provides the foundation for future work to examine ways in which to explore and optimize passion – across the three streams – in the workplace. We hope our comprehensive meta-analysis serves as one impetus to move the passion field forward in meaningful and insightful ways.

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Table 1. The Three Streams of Passion Research—Definitions, Dimensions, Theoretical Underpinnings, and Measures

Stream of passion	Definition	Dimension/s	Theoretical underpinnings	Measure
General passion	Passion represents one's	Positive feelings	Foundational theories:	Sample items:
	positive feelings toward	toward work	Motivational theories and	"I love my work."
	work.		models relating to intrinsic	"I look forward to returning to
			motivation and positive affect,	work when I am away from
	e.g., "love of one's work"		including expectancy theory	work."
	(Baum & Locke, 2004);		(Vroom, 1964), Porter and	"I love to work hard."
	"intense affective state		Lawler's (1968) model of	
	accompanied by cognitive		intrinsic and extrinsic	
	and behavioral		motivation, and positive affect	
	manifestations of high		maintenance (Isen, 2000).	
	personal value" (Chen et			
	al., 2009);		Core premise:	
	"enthusiasm, joy, and		Passionate love for work	
	even zeal that come from		provides the motivation and	
	the energetic		drive to persist and persevere so	
	and unflagging		as to maintain such positive	
	pursuit of a worthy, challenging, and		feelings.	
	uplifting purpose"			
	(Smilor, 1997).			
Dualistic model	Passion is a strong	1. Harmonious	Foundational theory: Self-	Sample items for harmonious
Duansuc mouel	inclination toward an	passion	determination theory (Deci &	passion:
	activity that people like,	2. Obsessive	Ryan, 2000).	"My work reflects the
	that they find important	passion	11, 2000).	qualities I like about myself."
	and identify with, and in	passion	Core premise:	"My work is in harmony with
	which they invest		Passion for work not only	the other activities in
	significant time and		includes an affective component	my life."
	energy (Vallerand et al.,		(strong liking or love for work),	
	2003).		but also an internalization	Sample items for obsessive
			component (work is	passion:
			internalized into person's	"I have almost an obsessive
			identity). Such internalization	feeling for my work."
			can be autonomous or	-

				controlled in nature, which then yields two forms of work passion: harmonious (associated with autonomous internalization) and obsessive (associated with controlled internalization).	"The urge is so strong. I can't help myself from doing my work."
Role-based passion	Passion for various entrepreneurial roles involves consciously accessible, positive feelings that result from engagement in activities that have identity meaning and salience to the entrepreneur. Thus, entrepreneurial passion encompasses two components: (a) intense positive feelings; and (b) centrality of the role to one's self-identity. Three distinct entrepreneurial roles consist of developing, founding, and inventing.	1. 2. 3.	Developing Passion for Founding	Theory: Self-regulation theory Core premise: Passion activates self-regulation processes that include regulating one's internal feeling states and behavioral responses so as to achieve goals and to maintain or enhance positive feelings (Thorgen & Wincent, 2013; 2015)	Sample items for Intense Positive Feelings: "Searching for new ideas for products/services to offer is enjoyable to me." "Establishing a new company excites me." Sample items for Identity Centrality: "Being the founder of a business is an important part of who I am." "Nurturing and growing companies is an important part of who I am."

Table 2. The Relationships Between General Passion and Work-Specific Outcomes (with $k \ge 3$).⁴

	Descr	iptives		U	ncorrected r	esults		Corrected results				
Outcome	k	N	$ar{m{r}}$	SE	95% CI	SDobs	SDtrue	ρ	80% CV	SDobs	SDtrue	%var
<u>Affect</u>			·				_					
Negative Affect	4	705	066	.046	157; .025	.093	.055	073	162; .015	.113	.069	62%
Positive Affect	5	807	.272	.073	.129; .416	.164	.146	.309	.086; .532	.193	.174	19%
Psychological States												
and Attitudes												
Empowerment	3	458	.442	.038	.368; .517	.066	.005	.512		.073	.000	100%+
Job Satisfaction	5	1428	.363	.037	.291; .435	.082	.064	.424	.330; .518	.095	.073	40%
Job Tension	3	458	.025	.100	172; .222	.174	.154	.032	192; .257	.198	.175	22%
Self-Efficacy	3	697	.243	.036	.173; .313	.044	.000	.293		.060	.000	100%+
Behaviors												
Creativity	4	538	.212	.061	.092; .332	.122	.090	.234	.087; .380	.148	.114	40%
Innovativeness	7	940	.311	.056	.201; .422	.149	.127	.346	.170; .522	.163	.138	28%
Investment	4	368	.119	.052	.018; .220	.048	.000	.124		.051	.000	100%+
Performance	4	612	.365	.035	.296; .434	.049	.000	.415		.041	.000	100%+
Preparedness	3	259	.446	.085	.280; .613	.147	.119	.492	.344; .640	.150	.115	40%

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⁴ For Tables 2 through 5: k = number of included studies, N = sample size, r = weighted mean correlation, SE = standard error, 95% CI = 95 percent confidence interval around r, SD_{obs} = observed variance, SD_{true} = standard deviation of the population estimate, ρ = population estimate, 80% CV = 80% credibility interval around ρ , %var = percentage of variance attributable to artifact.

 $\label{eq:control_problem} \mbox{Table 3. The Relationships Between Harmonious Passion and Work-Specific Outcomes (with $k \geq 3$)}.$

	Desc	riptives	tives Uncorrected results						Corre	cted res	ults	
Outcome	k	N	$ar{r}$	SE	95% CI	SD_{obs}	SD_{true}	ρ	80% CV	SD_{obs}	SD_{true}	%var
Affect												
Negative Affect	5	1138	263	.051	363;163	.114	.096	312	462;163	.138	.117	28%
Positive Affect	4	911	.658	.079	.502; .813	.158	.154	.777	.554; .999	.180	.174	6%
Psychological States												
and Attitudes												
Absorption	3	1250	.427	.069	.291; .562	.120	.113	.485	.319; .651	.137	.129	11%
Attention/Concentration	3	1070	.416	.097	.227; .605	.167	.161	.498	.296; .701	.166	.158	10%
Autonomous Motivation	3	5382	.746	.006	.734; .758	.008	.000	.821	.811; .831	.014	.008	67%
Burnout	8	3435	532	.033	597;467	.093	.087	610	726;493	.100	.091	16%
Commitment	5	2141	.627	.039	.551; .702	.086	.081	.710	.593; .826	.097	.091	12%
Controlled Motivation	3	5382	154	.099	348; .041	.172	.170	171	428; .086	.202	.201	2%
Cynicism	5	2446	393	.044	48;306	.099	.092	485	615;355	.112	.102	18%
Emotional Exhaustion	6	2198	291	.052	393;189	.128	.118	341	527;154	.156	.146	13%
Engagement	7	3794	.551	.059	.435; .666	.156	.153	.641	.407; .875	.186	.183	4%
Extrinsic Motivation	3	942	.001	.108	211; .212	.187	.178	003	270; .264	.219	.209	9%
Flow	5	880	.546	.060	.428; .663	.134	.123	.629	.506; .751	.113	.096	28%
Intrinsic Motivation	4	1296	.437	.135	.173; .701	.269	.265	.512	.101; .923	.325	.321	3%
Job Satisfaction	12	5700	.627	.018	.592; .662	.061	.054	.720	.641; .800	.070	.062	21%
Life Satisfaction	8	1591	.349	.043	.264; .433	.121	.104	.406	.272; .541	.128	.105	32%
Obsessive Passion	62	21514	.169	.037	.097; .241	.289	.284	.207	218; .631	.337	.332	3%
Psychological Distress	3	630	378	.043	462;294	.074	.045	436	491;382	.081	.043	72%
Psychological Well-Being	3	743	.397	.079	.242; .553	.137	.127	.464	.278; .649	.158	.145	16%
Rumination	3	462	026	.060	143; .091	.103	.064	040	138; .058	.127	.077	63%
Self-Efficacy	6	2363	.352	.043	.268; .437	.106	.096	.398	.287; .509	.100	.086	25%
Turnover Intention	4	993	303	.057	414;191	.114	.098	346	473;219	.119	.099	30%
Behaviors												
Creativity	5	2256	.304	.054	.197; .410	.121	.113	.348	.201; .495	.125	.115	15%
Hours Worked Per Week	3	3991	053	.029	109; .004	.050	.042	058	115;002	.053	.044	31%
OCB	4	811	.161	.139	112; .434	.279	.270	.167	239; .574	.327	.318	6%
Performance	13	3387	.256	.033	.191; .321	.119	.104	.292	.142; .443	.135	.118	24%

Table 4. The Relationships between Obsessive Passion and Work-Specific Outcomes (with $k \ge 3$).

	Desci	riptives	Uncorrected results						Corre	ected re	sults	
Outcome	k	\mathbf{N}	$ar{r}$	SE	95% CI	SD_{obs}	SD _{true}	ρ	80% CV	SD_{obs}	SD_{true}	%var
<u>Affect</u>								'				
Negative Affect	5	1138	.130	.030	.071; .188	.067	.013	.150	.125; .175	.078	.020	94%
Positive Affect	4	911	.259	.051	.158; .360	.103	.082	.300	.192; .408	.111	.084	42%
Psychological States												
and Attitudes	2	5202	246	076	006 206	122	101	200	110 464	1.40	120	20/
Autonomous Motivation	3	5382	.246	.076	.096; .396	.132	.131	.288	.112; .464	.140	.138	3%
Burnout	8	3435	.380	.071	.241; .519	.200	.196	.460	.145; .775	.251	.246	4%
Commitment	6	3074	.282	.083	.120; .444	.202	.198	.334	.038; .629	.236	.231	4%
Controlled Motivation	3	5382	.230	.016	.199; .261	.027	.016	.273	.223; .322	.047	.039	32%
Cynicism	5	2446	.102	.028	.046; .158	.064	.045	.125	.050; .199	.080	.058	47%
Emotional Exhaustion	6	2198	.260	.020	.221; .299	.045	.000	.312		.057	.000	100%+
Engagement	6	3584	102	.116	329; .124	.283	.280	110	552; .331	.348	.345	2%
Extrinsic Motivation	3	942	.169	.032	.107; .232	.051	.000	.200		.062	.000	100%+
Flow	5	880	.128	.074	017; .272	.165	.147	.163	055; .381	.193	.171	22%
Identification	3	862	.358	.048	.265; .452	.083	.065	.425	.354; .495	.082	.055	55%
Intrinsic Motivation	4	1296	.222	.143	057; .501	.285	.280	.259	172; .690	.342	.337	3%
Job Satisfaction	13	6633	.116	.041	.035; .197	.149	.143	.143	075; .360	.178	.170	9%
Life Satisfaction	7	1405	.026	.066	104; .156	.175	.160	.036	195; .266	.197	.180	17%
Psychological Distress	3	630	.113	.057	.002; .224	.098	.070	.140	.037; .243	.116	.081	51%
Rumination	3	462	.333	.087	.161; .504	.151	.133	.416	.226; .606	.173	.149	26%
Self-Efficacy	3	1357	.098	.043	.013; .183	.075	.059	.114	.045; .183	.075	.054	48%
Turnover Intention	4	993	027	.101	225; .170	.201	.191	044	327; .238	.233	.221	10%
Behaviors												
Hours Worked Per Week	3	3991	.235	.022	.192; .278	.038	.028	.268	.228; .307	.043	.031	48%
OCB	5	1724	.114	.051	.014; .214	.114	.101	.126	040; .292	.145	.130	19%
Performance	11	2773	.114	.067	016; .245	.221	.212	.129	178; .437	.250	.240	8%

Table 5. The Relationships between Role-Based Passion and Work-Specific Outcomes (with $k \ge 3$).

Descriptives

Lincorrected results

	Desc	riptives		Uncorrected results					Cor	rected r	esults	
Outcome	k	N	$ar{r}$	SE	95% CI	SD_{obs}	SD _{true}	ρ	80% CV	SD_{obs}	SD _{true}	%var
Passion for Developing &												
Positive Affect	3	404	.386	.081	.228; .544	.140	.119	.466	.275; .656	.173	.149	26%
Self-Efficacy	4	1664	.376	.021	.335; .418	.037	.000	.470		.042	.000	100%+
Passion for Founding &												
Positive Affect	3	404	.305	.092	.125; .485	.159	.138	.371	.138; .605	.207	.183	22%
Self-Efficacy	4	1673	.458	.042	.376; .540	.084	.074	.553	.472; .635	.079	.064	35%
Passion for Developing	4	3908	.501	.018	.466; .536	.036	.027	.657	.607; .707	.050	.039	40%
Passion for Inventing &												
Positive Affect	3	404	.340	.117	.110; .570	.203	.188	.403	.117; .690	.242	.224	14%
Self-Efficacy	4	3768	.579	.058	.466; .693	.116	.114	.689	.561; .817	.103	.100	6%
Creativity	3	997	.529	.038	.454; .604	.067	.053	.672	.622; .721	.063	.039	63%
Passion for Developing	4	3908	.565	.041	.484; .646	.083	.080	.743	.598; .888	.117	.113	6%
Passion for Founding	4	3908	.476	.023	.431; .521	.046	.039	.594	.509; .680	.074	.067	18%

Appendix. List of Studies Included in Meta-Analyses (in Alphabetical Order).

Author	Year	Published Location	Study #	N	Passion Type	Outcome
Akehurst & Oliver	2013	Journal of Sports Sciences	1	100	Harmonious Passion	Obsessive Passion
Amoura, Berjot, Altintas, & Lenoir	2012	N/A	1	74	Harmonious Passion	Obsessive Passion
Appu & Sia	2017	Int. J. Human Resources Development and Mgmt.	1	304	Harmonious Passion	Creativity
Appu & Sia	2017	Int. J. Human Resources Development and Mgmt.	1	304	Harmonious Passion	Self-Efficacy
Astakhova	2014	Journal of Business Ethics	1	233	Harmonious Passion	Life Satisfaction
Astakhova	2014	Journal of Business Ethics	1	233	Obsessive Passion	Life Satisfaction
Astakhova & Ho	2018	European J. of Work and Organizational Psych.	1	190	Harmonious Passion	Performance
Astakhova & Ho	2018	European J. of Work and Organizational Psych.	1	190	Harmonious Passion	Obsessive Passion
Astakhova & Ho	2018	European J. of Work and Organizational Psych.	1	190	Obsessive Passion	OCB
Astakhova & Ho	2018	European J. of Work and Organizational Psych.	1	190	Obsessive Passion	Performance
Astakova & Porter	2015	Human Relations	1	233	Harmonious Passion	Obsessive Passion
Astakova & Porter	2015	Human Relations	1	233	Obsessive Passion	Performance
Astakova & Porter	2015	Human Relations	1	233	Obsessive Passion	Identification
Astakova & Porter	2015	Human Relations	1	233	Harmonious Passion	Performance
Baum & Locke	2004	Journal of Applied Psychology	1	229	General Passion	Self-Efficacy
Biraglia & Kadile	2017	Journal of Small Business Management	1	213	Passion for Founding	Self-Efficacy
Birkeland & Buch	2014	Motivation and Emotion	2	175	Harmonious Passion	Burnout
Birkeland & Buch	2014	Motivation and Emotion	2	175	Harmonious Passion	Life Satisfaction
Birkeland & Buch	2014	Motivation and Emotion	2	175	Harmonious Passion	OCB
Birkeland & Buch	2014	Motivation and Emotion	2	175	Harmonious Passion	Engagement
Birkeland & Buch	2014	Motivation and Emotion	2	175	Harmonious Passion	Obsessive Passion
Birkeland & Buch	2014	Motivation and Emotion	2	175	Obsessive Passion	Burnout
Birkeland & Buch	2014	Motivation and Emotion	2	175	Obsessive Passion	Engagement
Birkeland & Buch	2014	Motivation and Emotion	2	175	Obsessive Passion	Life Satisfaction
Birkeland & Buch	2014	Motivation and Emotion	2	175	Obsessive Passion	OCB
Birkeland & Nerstad	2016	Journal of Occupational Health Psychology	1	1263	Harmonious Passion	Hours Worked Per Week
Birkeland & Nerstad	2016	Journal of Occupational Health Psychology	1	1263	Harmonious Passion	Obsessive Passion
Birkeland & Nerstad	2016	Journal of Occupational Health Psychology	1	1263	Obsessive Passion	Hours Worked Per Week
Birkeland, Richardsen, & Dysvik	2018	International Journal of Stress Management	1	1263	Harmonious Passion	Cynicism

Birkeland, Richardsen, & Dysvik	2018	International Journal of Stress Management	1	1263	Harmonious Passion	Emotional Exhaustion
Birkeland, Richardsen, & Dysvik	2018	International Journal of Stress Management	1	1263	Obsessive Passion	Cynicism
Birkeland, Richardsen, & Dysvik	2018	International Journal of Stress Management	1	1263	Obsessive Passion	Emotional Exhaustion
Bonneville-Roussy, Lavigne, & Vallerand	2011	Psychology of Music	1	44	Harmonious Passion	Performance
Bonneville-Roussy, Lavigne, & Vallerand	2011	Psychology of Music	1	44	Harmonious Passion	Life Satisfaction
Bonneville-Roussy, Lavigne, & Vallerand	2011	Psychology of Music	1	44	Harmonious Passion	Obsessive Passion
Bonneville-Roussy, Lavigne, & Vallerand	2011	Psychology of Music	1	44	Obsessive Passion	Life Satisfaction
Bonneville-Roussy, Lavigne, & Vallerand	2011	Psychology of Music	1	44	Obsessive Passion	Performance
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Developing	Positive Affect
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Founding	Positive Affect
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Founding	Passion for Developing
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Inventing	Passion for Developing
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Inventing	Passion for Founding
Breugst, Domurath, Patzelt, & Klaukien	2011	Entrepreneurship Theory and Practice	1	124	Passion for Inventing	Positive Affect
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Harmonious Passion	Intentions to Quit
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Harmonious Passion	Job Satisfaction
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Harmonious Passion	OCB
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Harmonious Passion	Career/Occupational Commitment
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Obsessive Passion	Intention to Quit
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Obsessive Passion	Job Satisfaction
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Obsessive Passion	OCB
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	1	233	Obsessive Passion	Career/Occupational Commitment
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	Intentions to Quit
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	Performance
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	Job Satisfaction
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	OCB
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	Career/Occupational Commitment
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Harmonious Passion	Obsessive Passion
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Obsessive Passion	Intention to Quit
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Obsessive Passion	Job Satisfaction
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Obsessive Passion	OCB
Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Obsessive Passion	Career/Occupational Commitment
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Burke, Astakhova, & Hang	2014	Journal of Business and Psychology	2	193	Obsessive Passion	Performance
Carbonneau, Vallerand, Fernet, & Guay	2008	Journal of Educational Psychology	1	494	Harmonious Passion	Burnout
Carbonneau, Vallerand, Fernet, & Guay	2008	Journal of Educational Psychology	1	494	Harmonious Passion	Job Satisfaction
Carbonneau, Vallerand, Fernet, & Guay	2008	Journal of Educational Psychology	1	494	Harmonious Passion	Obsessive Passion
Carbonneau, Vallerand, Fernet, & Guay	2008	Journal of Educational Psychology	1	494	Obsessive Passion	Burnout
Carbonneau, Vallerand, Fernet, & Guay	2008	Journal of Educational Psychology	1	494	Obsessive Passion	Job Satisfaction
Cardon	2013	N/A	1	122	Passion for Developing	Positive Affect
Cardon	2013	N/A	1	122	Passion for Founding	Positive Affect
Cardon	2013	N/A	1	122	Passion for Inventing	Positive Affect
Cardon & Kirk	2013	Entrepreneurship Theory and Practice	1	129	Passion for Developing	Self-Efficacy
Cardon & Kirk	2013	Entrepreneurship Theory and Practice	1	129	Passion for Founding	Self-Efficacy
Cardon & Kirk	2013	Entrepreneurship Theory and Practice	1	129	Passion for Inventing	Self-Efficacy
Cardon et al.,	2009	Babson (Frontiers of Entreprenuership Research)	2	109	General Passion	Investment
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Developing	Positive Affect
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Developing	Self-Efficacy
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Founding	Self-Efficacy
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Founding	Positive Affect
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Inventing	Creativity
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Inventing	Self-Efficacy
Cardon, Gregoire, Stevens, & Patel	2013	Journal of Business Venturing	2	158	Passion for Inventing	Positive Affect
Castillo, Álvarez, Estevan, Queralt, & Molina-García	2017	Journal of Sport Psychology	1	161	Harmonious Passion	Burnout
Castillo, Álvarez, Estevan, Queralt, & Molina-García	2017	Journal of Sport Psychology	1	161	Harmonious Passion	Obsessive Passion
Castillo, Álvarez, Estevan, Queralt, & Molina-García	2017	Journal of Sport Psychology	1	161	Obsessive Passion	Burnout
Caudroit, Boiche', Stephan, Le Scanff, & Trouilloud	2011	European J. of Work and Organizational Psych.	1	160	Harmonious Passion	Obsessive Passion
Chen, Lyu, Li, Zhou, & Li	2017	Cornell Hospitality Quarterly	1	599	Harmonious Passion	Self-Efficacy
Chen, Yao, & Kotha	2009	Academy of Management Journal	1	126	General Passion	Investment
Chen, Yao, & Kotha	2009	Academy of Management Journal	1	126	General Passion	Preparedness
Chen, Yao, & Kotha	2009	Academy of Management Journal	2	31	General Passion	Investment
Chen, Yao, & Kotha	2009	Academy of Management Journal	2	31	General Passion	Preparedness
Dalborg & Wincent	2014	International Small Business Journal	1	103	Harmonious Passion	Self-Efficacy
Davis, Keith, Hmieleski, Webb, & Coombs	2017	Journal of Business Venturing	1	102	General Passion	Investment
Davis, Keith, Hmieleski, Webb, & Coombs	2017	Journal of Business Venturing	1	102	General Passion	Creativity

Davis, Keith, Hmieleski, Webb, & Coombs	2017	Journal of Business Venturing	1	102	General Passion	Positive Affect
Davis, Keith, Hmieleski, Webb, & Coombs	2017	Journal of Business Venturing	1	102	General Passion	Preparedness
De Clercq & Belausteguigoitia	2019	Creat Innov Manag	1	109	General Passion	Creativity
De Clercq & Belausteguigoitia	2017	European Management Journal	1	746	General Passion	Job Satisfaction
de Mol, Ho, & Pollack	2018	Journal of Small Business Management	1	326	Harmonious Passion	Burnout
de Mol, Ho, & Pollack	2018	Journal of Small Business Management	1	326	Harmonious Passion	Obsessive Passion
de Mol, Ho, & Pollack	2018	Journal of Small Business Management	1	326	Obsessive Passion	Burnout
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	1	117	Harmonious Passion	Emotional Exhaustion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	1	117	Harmonious Passion	Rumination
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	1	117	Harmonious Passion	Obsessive Passion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	1	117	Obsessive Passion	Emotional Exhaustion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	1	117	Obsessive Passion	Rumination
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	2	118	Harmonious Passion	Emotional Exhaustion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	2	118	Harmonious Passion	Rumination
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	2	118	Harmonious Passion	Obsessive Passion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	2	118	Obsessive Passion	Emotional Exhaustion
Donahue, Forest, & Vallerand	2012	Applied Psychology: Health and Wellbeing	2	118	Obsessive Passion	Rumination
Drnovsek, Cardon, & Patel	2016	Strategic Entrepreneurship Journal	1	122	Passion for Founding	Passion for Developing
Drnovsek, Cardon, & Patel	2016	Strategic Entrepreneurship Journal	1	122	Passion for Inventing	Passion for Developing
Drnovsek, Cardon, & Patel	2016	Strategic Entrepreneurship Journal	1	122	Passion for Inventing	Passion for Founding
Dubreuil, Forest, & Courcy	2014	Journal of Positive Psychology	1	404	Harmonious Passion	Performance
Dubreuil, Forest, & Courcy	2014	Journal of Positive Psychology	1	404	Harmonious Passion	Concentration
Fisher	2011	N/A	2	215	Harmonious Passion	Obsessive Passion
Fisher, Merlot, & Johnson	2018	Int'l J. of Entrepreneurial Behavior & Research	1	204	Harmonious Passion	Obsessive Passion
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Harmonious Passion	Flow
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Harmonious Passion	Psychological Distress
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Harmonious Passion	Psychological Well-Being
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Harmonious Passion	Obsessive Passion
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Obsessive Passion	Flow
Forest, Sarrazin, Morin, Brunet, Savoie, & Mageau	2006	N/A	1	118	Obsessive Passion	Psychological Distress
Forest et al.	2012	Human Relations	1	186	Harmonious Passion	Life Satisfaction
Forest et al.	2012	Human Relations	1	186	Harmonious Passion	Psychological Well-Being

Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Harmonious Passion	Psychological Distress
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Harmonious Passion	Psychological Well-Being
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Harmonious Passion	Career/Occupational Commitment
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Harmonious Passion	Concentration
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Harmonious Passion	Obsessive Passion
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Obsessive Passion	Career/Occupational Commitment
Forest, Mageau, Sarrazin, & Morin	2011	Canadian Journal of Administrative Sciences	1	439	Obsessive Passion	Psychological Distress
Gaan & Mohanty	2019	The Indian Journal of Industrial Relations	1	232	Harmonious Passion	Cynicism
Gaan & Mohanty	2019	The Indian Journal of Industrial Relations	1	232	Harmonious Passion	Intentions to Quit
Gaan & Mohanty	2019	The Indian Journal of Industrial Relations	1	232	Harmonious Passion	Obsessive Passion
Gaan & Mohanty	2019	The Indian Journal of Industrial Relations	1	232	Obsessive Passion	Cynicism
Gaan & Mohanty	2019	The Indian Journal of Industrial Relations	1	232	Obsessive Passion	Intention to Quit
Hao, He, & Long	2018	Journal of Leadership & Organizational Studies	1	266	Harmonious Passion	Creativity
Hao, He, & Long	2018	Journal of Leadership & Organizational Studies	1	266	Harmonious Passion	Performance
Hao, He, & Long	2018	Journal of Leadership & Organizational Studies	1	266	Harmonious Passion	Obsessive Passion
Hao, He, & Long	2018	Journal of Leadership & Organizational Studies	1	266	Obsessive Passion	Performance
Ho & Astakhova	2018	Human Relations	1	214	Harmonious Passion	Engagement
Ho & Astakhova	2018	Human Relations	1	214	Harmonious Passion	Obsessive Passion
Ho & Astakhova	2018	Human Relations	1	214	Obsessive Passion	Engagement
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Harmonious Passion	Intrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Harmonious Passion	Performance
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Harmonious Passion	Extrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Harmonious Passion	Obsessive Passion
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Obsessive Passion	Extrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Obsessive Passion	Intrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	1	220	Obsessive Passion	Performance
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Harmonious Passion	Intrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Harmonious Passion	Performance
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Harmonious Passion	Extrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Harmonious Passion	Obsessive Passion
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Obsessive Passion	Extrinsic Motivation
Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Obsessive Passion	Intrinsic Motivation

Ho, Kong, Lee, Dubreuil, & Forest	2018	Journal of Vocational Behavior	2	197	Obsessive Passion	Performance
Ho & Pollack	2014	Journal Management Studies	1	206	Harmonious Passion	Obsessive Passion
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Harmonious Passion	Performance
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Harmonious Passion	Job Satisfaction
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Harmonious Passion	Career/Occupational Commitment
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Harmonious Passion	Absorption
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Harmonious Passion	Obsessive Passion
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Obsessive Passion	Job Satisfaction
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Obsessive Passion	Career/Occupational Commitment
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Obsessive Passion	Performance
Ho, Wong, & Lee	2011	Journal Management Studies	1	509	Obsessive Passion	Identification
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Harmonious Passion	Autonomous Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Harmonious Passion	Job Satisfaction
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Harmonious Passion	Hours Worked Per Week
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Harmonious Passion	Controlled Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Harmonious Passion	Obsessive Passion
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Obsessive Passion	Job Satisfaction
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Obsessive Passion	Autonomous Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Obsessive Passion	Hours Worked Per Week
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	1	2393	Obsessive Passion	Controlled Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Autonomous Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Intentions to Quit
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Job Satisfaction
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Hours Worked Per Week
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Controlled Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Harmonious Passion	Obsessive Passion
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Obsessive Passion	Intention to Quit
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Obsessive Passion	Job Satisfaction
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Obsessive Passion	Autonomous Motivation
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Obsessive Passion	Hours Worked Per Week
Houlfort, Philippe, Vallerand, & Menard	2014	Journal of Managerial Psychology	2	335	Obsessive Passion	Controlled Motivation
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	1	103	Harmonious Passion	Obsessive Passion

Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Harmonious Passion	Job Satisfaction
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Harmonious Passion	Life Satisfaction
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Harmonious Passion	Psychological Distress
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Harmonious Passion	Obsessive Passion
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Obsessive Passion	Job Satisfaction
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Obsessive Passion	Life Satisfaction
Houlfort, Fernet, Vallerand, Laframboise, Guay, &	2015	Journal of Vocational Behavior	2	73	Obsessive Passion	Psychological Distress
Huyghe, Knockaert, & Obschonka	2016	Journal of Business Venturing	1	2308	Passion for Inventing	Self-Efficacy
Jamil, Omar, & Panatik	2014	Asian Social Science	1	305	Harmonious Passion	Creativity
Jamil, Omar, & Panatik	2014	Asian Social Science	1	305	Harmonious Passion	Performance
Jamil, Omar, & Panatik	2014	Asian Social Science	1	305	Harmonious Passion	Obsessive Passion
Jamil, Omar, & Panatik	2014	Asian Social Science	1	305	Obsessive Passion	Performance
Kim	2013	Academic Exchange Quarterly	1	77	Harmonious Passion	Self-Efficacy
Kim	2013	Academic Exchange Quarterly	1	77	Harmonious Passion	Obsessive Passion
Kim	2013	Academic Exchange Quarterly	1	77	Obsessive Passion	Self-Efficacy
Klaukien, Shepherd, & Patzelt	2013	Journal of Product Innovation Management	1	90	Harmonious Passion	Obsessive Passion
Kong	2016	Personality and Individual Differences	1	120	Harmonious Passion	Obsessive Passion
Kong	2016	Personality and Individual Differences	1	120	Obsessive Passion	Identification
Kong & Ho	2018	European J. of Work and Organizational Psych.	1	262	Harmonious Passion	Emotional Exhaustion
Kong & Ho	2018	European J. of Work and Organizational Psych.	1	262	Harmonious Passion	Performance
Kong & Ho	2018	European J. of Work and Organizational Psych.	1	262	Harmonious Passion	Obsessive Passion
Kong & Ho	2018	European J. of Work and Organizational Psych.	1	262	Obsessive Passion	Emotional Exhaustion
Kong & Ho	2018	European J. of Work and Organizational Psych.	1	262	Obsessive Passion	Performance
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Harmonious Passion	Self-Efficacy
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Harmonious Passion	Career/Occupational Commitment
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Harmonious Passion	Engagement
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Harmonious Passion	Obsessive Passion
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Obsessive Passion	Engagement
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Obsessive Passion	Career/Occupational Commitment
Lajom, Amarnani, Restubog, Bordia, & Tang	2018	Journal of Career Assessment	1	767	Obsessive Passion	Self-Efficacy
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Harmonious Passion	Cynicism
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Harmonious Passion	Emotional Exhaustion

Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Harmonious Passion	Flow
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Harmonious Passion	Obsessive Passion
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Obsessive Passion	Cynicism
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Obsessive Passion	Emotional Exhaustion
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	1	113	Obsessive Passion	Flow
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Harmonious Passion	Cynicism
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Harmonious Passion	Emotional Exhaustion
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Harmonious Passion	Flow
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Harmonious Passion	Obsessive Passion
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Obsessive Passion	Cynicism
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Obsessive Passion	Emotional Exhaustion
Lavigne, Forest, & Crevier-Braud	2012	European J. of Work and Organizational Psych.	2	325	Obsessive Passion	Flow
Lavigne, Forest, Fernet, & Crevier-Braud	2014	Journal of Applied Social Psychology	1	485	Harmonious Passion	Obsessive Passion
Li, Chen, Kotha, & Fisher	2017	Journal of Applied Psychology	1	100	General Passion	Innovativeness
Li, Chen, Kotha, & Fisher	2017	Journal of Applied Psychology	2	122	General Passion	Innovativeness
Li, Chen, Kotha, & Fisher	2017	Journal of Applied Psychology	3	120	General Passion	Innovativeness
Liu, Chen, & Yao	2011	Journal of Applied Psychology	1	856	Harmonious Passion	Creativity
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Harmonious Passion	Creativity
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Harmonious Passion	Intrinsic Motivation
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Harmonious Passion	Extrinsic Motivation
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Harmonious Passion	Obsessive Passion
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Obsessive Passion	Extrinsic Motivation
Liu, Chen, & Yao	2011	Journal of Applied Psychology	2	525	Obsessive Passion	Intrinsic Motivation
Ma, Gu, & Liu	2017	Journal of Developmental Entrepreneurship	1	141	General Passion	Innovativeness
Ma, Gu, & Liu	2017	Int Entrep Manag Journal	1	154	General Passion	Innovativeness
Ma, Gu, & Liu	2017	Int Entrep Manag Journal	1	154	General Passion	Performance
Mageau et al.	2009	Journal of Personality	1	229	Harmonious Passion	Obsessive Passion
Mageau et al.	2009	Journal of Personality	2	163	Harmonious Passion	Obsessive Passion
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Empowerment
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Job Satisfaction
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Job Tension
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Negative Affect

McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Performance
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	2	133	General Passion	Positive Affect
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Empowerment
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Job Satisfaction
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Job Tension
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Negative Affect
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Performance
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	3	154	General Passion	Positive Affect
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Empowerment
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Job Satisfaction
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Job Tension
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Negative Affect
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Performance
McAllister, Harris, Hochwarter, Perrewe, & Ferris	2017	Journal of Business and Psychology	4	171	General Passion	Positive Affect
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Developing	Self-Efficacy
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Founding	Self-Efficacy
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Founding	Passion for Developing
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Inventing	Self-Efficacy
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Inventing	Passion for Developing
Molino, Dolce, Cortese, & Ghislieri	2017	Experiences & Tools	1	1173	Passion for Inventing	Passion for Founding
Campos	2016	Review of Business Management	1	244	Passion for Inventing	Creativity
Montiel-Campos & Palma-Chorres	2016	J. Technol. Manag. Innov.	1	103	General Passion	Creativity
Montiel-Campos & Palma-Chorres	2016	J. Technol. Manag. Innov.	1	103	General Passion	Innovativeness
Mueller, Wolfe, & Syed	2017	Journal of Business Venturing	1	204	Passion for Developing	Self-Efficacy
Murnieks, Mosakowski, & Cardon	2011	(Babson) Frontiers of Entrepreneurship Research	1	247	General Passion	Self-Efficacy
Murnieks, Mosakowski, & Cardon	2011	(Babson) Frontiers of Entrepreneurship Research	1	247	General Passion	Negative Affect
Murnieks, Mosakowski, & Cardon	2011	(Babson) Frontiers of Entrepreneurship Research	1	247	General Passion	Positive Affect
Murnieks, Mosakowski, & Cardon	2012	Journal of Management	1	221	General Passion	Self-Efficacy
Nasiru, Keat, & Bhatti	2015	Mediterranean Journal of Social Sciences	1	595	Passion for Inventing	Creativity
Padham, & Aujla	2014	Journal of Dance Medicine and Science	1	92	Harmonious Passion	Obsessive Passion
Patel, Thorgren, & Wincent	2015	British Journal of Management	1	105	Harmonious Passion	Obsessive Passion
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Harmonious Passion	Negative Affect

Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Harmonious Passion	Positive Affect
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Harmonious Passion	Engagement
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Harmonious Passion	Obsessive Passion
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Obsessive Passion	Engagement
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Obsessive Passion	Negative Affect
Pereira, Ferreira, & Valentini	2018	Psico-USF, Bragança Paulista	1	504	Obsessive Passion	Positive Affect
Pertulla	2004	N/A	1	224	General Passion	Creativity
Pertulla	2004	N/A	1	224	General Passion	Job Satisfaction
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	1	90	Harmonious Passion	Flow
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	1	90	Harmonious Passion	Obsessive Passion
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	1	90	Obsessive Passion	Flow
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Harmonious Passion	Negative Affect
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Harmonious Passion	Rumination
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Harmonious Passion	Concentration
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Harmonious Passion	Obsessive Passion
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Obsessive Passion	Negative Affect
Philippe, Vallerand, Andrianarisoa, & Brunel	2009	Journal of Sport & Exercise Psychology	2	227	Obsessive Passion	Rumination
Prates, Both, & Rinaldi	2019	J. Phys. Educ	1	133	Harmonious Passion	Life Satisfaction
Prates, Both, & Rinaldi	2019	J. Phys. Educ	1	133	Harmonious Passion	Obsessive Passion
Prates, Both, & Rinaldi	2019	J. Phys. Educ	1	133	Obsessive Passion	Life Satisfaction
Qadeer, Ahmad, Hameed, & Mahmood	2016	Pakistan J. of Commerce and Social Sciences	1	210	Harmonious Passion	Performance
Qadeer, Ahmad, Hameed, & Mahmood	2016	Pakistan J. of Commerce and Social Sciences	1	210	Harmonious Passion	OCB
Qadeer, Ahmad, Hameed, & Mahmood	2016	Pakistan J. of Commerce and Social Sciences	1	210	Harmonious Passion	Engagement
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Harmonious Passion	Cynicism
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Harmonious Passion	Life Satisfaction
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Harmonious Passion	Self-Efficacy
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Harmonious Passion	Absorption
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Harmonious Passion	Obsessive Passion
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Obsessive Passion	Cynicism
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Obsessive Passion	Life Satisfaction
Serrano-Fernández et al.	2017	Anales de Psicología	1	513	Obsessive Passion	Self-Efficacy
Shi	2012	African Journal of Business Management	1	228	Harmonious Passion	Absorption

Shi	2012	African Journal of Business Management	1	228	Harmonious Passion	Obsessive Passion
Shockley & Turner	2016	Journal of Retailing and Consumer Services	1	200	General Passion	Innovativeness
Sirén, Patel, & Wincent	2016	The Leadership Quarterly	1	80	Harmonious Passion	Obsessive Passion
Stenholm & Renko	2016	Journal of Business Venturing	1	2489	Passion for Founding	Passion for Developing
Stenholm & Renko	2016	Journal of Business Venturing	1	2489	Passion for Inventing	Passion for Developing
Stenholm & Renko	2016	Journal of Business Venturing	1	2489	Passion for Inventing	Passion for Founding
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	1	88	Harmonious Passion	Negative Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	1	88	Harmonious Passion	Positive Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	1	88	Harmonious Passion	Obsessive Passion
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	1	88	Obsessive Passion	Negative Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	1	88	Obsessive Passion	Positive Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	2	85	Harmonious Passion	Negative Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	2	85	Harmonious Passion	Positive Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	2	85	Harmonious Passion	Obsessive Passion
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	2	85	Obsessive Passion	Negative Affect
Stroe, Sirén,, Shephard, & Wincent	2019	N/A	2	85	Obsessive Passion	Positive Affect
Swanson & Kent	2017	Sport Management Review	1	933	Obsessive Passion	Job Satisfaction
Swanson & Kent	2017	Sport Management Review	1	933	Obsessive Passion	OCB
Swanson & Kent	2017	Sport Management Review	1	933	Obsessive Passion	Career/Occupational Commitment
Thorgen, Wincent, & Sirén	2013	Human Resources Development Quarterly	1	704	Harmonious Passion	Job Satisfaction
Thorgen, Wincent, & Sirén	2013	Human Resources Development Quarterly	1	704	Harmonious Passion	Obsessive Passion
Thorgen, Wincent, & Sirén	2013	Human Resources Development Quarterly	1	704	Obsessive Passion	Job Satisfaction
Thorgren & Wincent	2013	Journal of Applied Social Psychology	1	134	Harmonious Passion	Obsessive Passion
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	1	1179	Harmonious Passion	Burnout
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	1	1179	Harmonious Passion	Engagement
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	1	1179	Harmonious Passion	Obsessive Passion
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	1	1179	Obsessive Passion	Burnout
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	1	1179	Obsessive Passion	Engagement
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	2	745	Harmonious Passion	Burnout
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	2	745	Harmonious Passion	Engagement
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	2	745	Harmonious Passion	Obsessive Passion
Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	2	745	Obsessive Passion	Burnout

Trepanier, Fernet, Austin, Forest, & Vallerand	2014	Motivation and Emotion	2	745	Obsessive Passion	Engagement
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	1	97	Harmonious Passion	Burnout
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	1	97	Harmonious Passion	Job Satisfaction
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	1	97	Harmonious Passion	Obsessive Passion
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	1	97	Obsessive Passion	Burnout
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	1	97	Obsessive Passion	Job Satisfaction
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	2	258	Harmonious Passion	Burnout
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	2	258	Harmonious Passion	Job Satisfaction
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	2	258	Harmonious Passion	Obsessive Passion
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	2	258	Obsessive Passion	Burnout
Vallerand, Paquet, Philippe, & Charest	2010	Journal of Personality	2	258	Obsessive Passion	Job Satisfaction
Yahui & Jian	2015	Advances in Management	1	354	Harmonious Passion	Intrinsic Motivation
Yahui & Jian	2015	Advances in Management	1	354	Harmonious Passion	Performance
Yahui & Jian	2015	Advances in Management	1	354	Harmonious Passion	Obsessive Passion
Yahui & Jian	2015	Advances in Management	1	354	Obsessive Passion	Intrinsic Motivation
Yahui & Jian	2015	Advances in Management	1	354	Obsessive Passion	Performance
Yukhymenko-Lescroart & Sharma	2019	J. of Happiness Studies	1	177	Harmonious Passion	Job Satisfaction
Yukhymenko-Lescroart & Sharma	2019	J. of Happiness Studies	1	177	Harmonious Passion	Obsessive Passion
Yukhymenko-Lescroart & Sharma	2019	J. of Happiness Studies	1	177	Obsessive Passion	Job Satisfaction
Zigarmi, Galloway, & Roberts	2018	J. of Happiness Studies	1	2654	Harmonious Passion	Autonomous Motivation
Zigarmi, Galloway, & Roberts	2018	J. of Happiness Studies	1	2654	Harmonious Passion	Controlled Motivation
Zigarmi, Galloway, & Roberts	2018	J. of Happiness Studies	1	2654	Harmonious Passion	Obsessive Passion
Zigarmi, Galloway, & Roberts	2018	J. of Happiness Studies	1	2654	Obsessive Passion	Autonomous Motivation
Zigarmi, Galloway, & Roberts	2018	J. of Happiness Studies	1	2654	Obsessive Passion	Controlled Motivation
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Flow
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Job Satisfaction
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Life Satisfaction
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Negative Affect
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Positive Affect
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Harmonious Passion	Obsessive Passion
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Obsessive Passion	Flow
Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Obsessive Passion	Job Satisfaction

Ī	Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Obsessive Passion	Life Satisfaction
Ī	Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Obsessive Passion	Negative Affect
	Zito & Colombo	2017	J. of Work and Organizational Psychology	1	234	Obsessive Passion	Positive Affect