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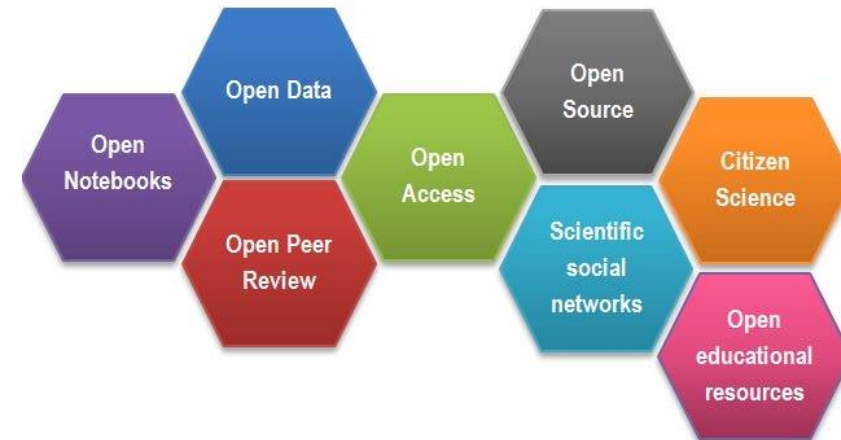
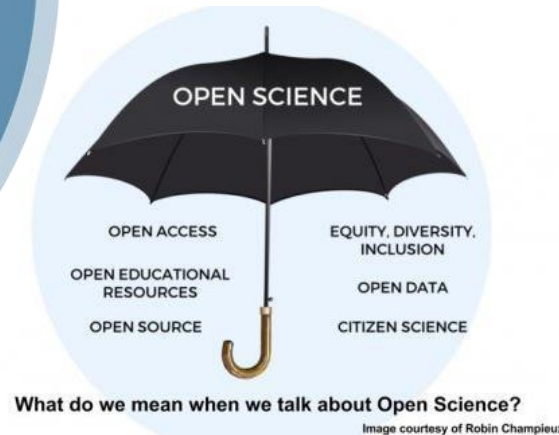
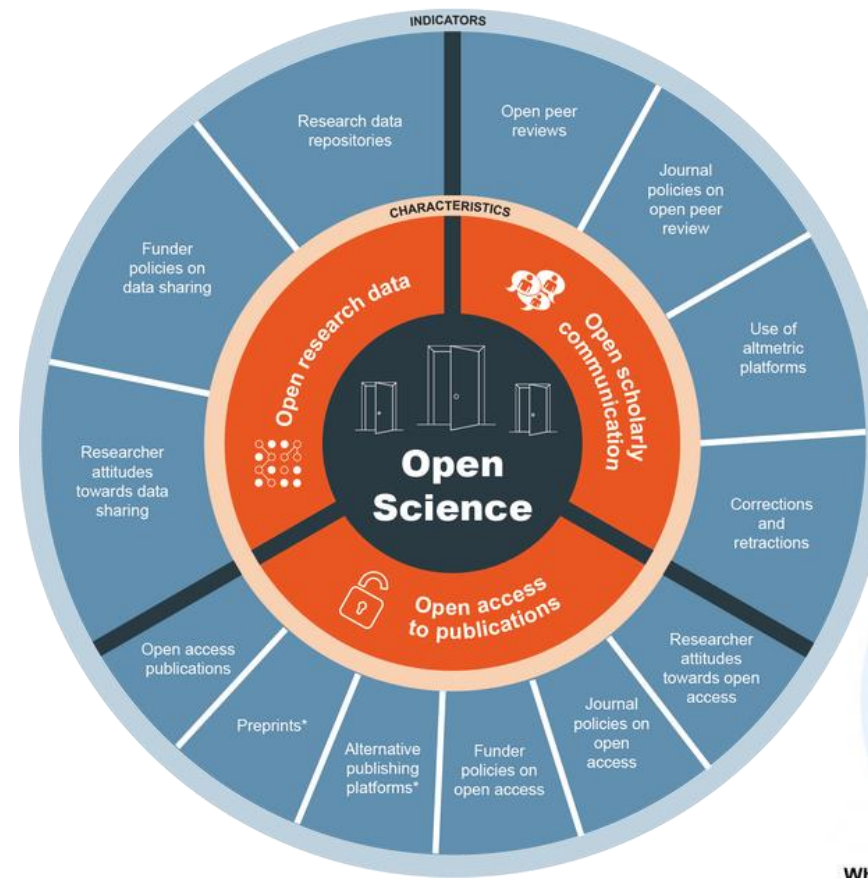


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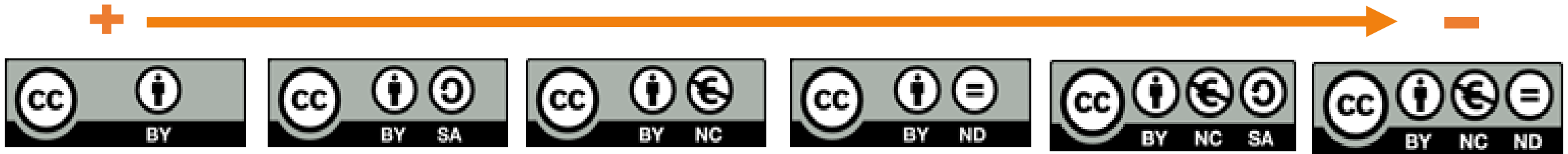


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Improved plasticity and corrosion behavior in Ti-Zr-Cu-Ni-Pd metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications

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ABSTRACT

The effects of minor additions of Nb (2, 3 and 4 at%) to the Ti₄₀Zr₂₀Cu₂₀Pd₁₀ metallic glass are discussed in terms of microstructure, thermal behavior, mechanical properties and corrosion resistance. The addition of Nb promotes the formation of nanocrystals, i.e., from a completely amorphous structure (when no Nb is added) to a mainly crystalline structure (for a 4% of Nb addition). The glassy alloy exhibits large hardness, relatively low Young's modulus and moderate elastic behavior, although the plasticity is rather limited. A significant increase in compressive ductility (total strain over 13%) is achieved in the sample with 3% of Nb without compromise of the strength. Young's modulus of the as-cast alloy (around 100 GPa, as determined from ultrasonic measurements) increases only slightly when nanocrystallites are embedded in amorphous matrix. Improvement of the corrosion performance, with delayed pitting corrosion, is also observed for 3% Nb addition.

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1. Introduction

Bulk metallic glasses (BMGs) have been widely investigated during the last decades owing to their exceptional mechanical properties, such as high strength, large elasticity and good corrosion resistance. In recent years, the study of BMGs has focused on improving the low plasticity typically encountered in these alloys, to make them suitable materials for structural and engineering applications [1]. Specifically, BMG free from toxic or non-biocompatible elements (e.g., Be, Al, Ni, Co or Cr) have attracted huge interest to be used in the biomedical field since they possess higher strength, lower Young's modulus and often better corrosion and wear resistance than their crystalline counterparts [2]. Among the various compositions of metallic glasses, Ti-based and Zr-based BMG are the most commonly investigated alloys. In particular, Zr-based BMG become attractive to be used in the biomedical field due to their high glass forming ability and large plasticity. However, Zr-based BMG with high glass forming ability and enhanced mechanical properties usually contain toxic elements such as Ni, Be or Al, hence restricting their use in many biomedical applications. Nevertheless, recent studies on Zr-based

BMG containing Al and/or Ni claimed to be non-toxic materials and to exhibit a biocompatibility comparable to that of commercial Ti-6Al-4V alloy [3,4].

Ti-based BMG attract attention as a result of its low density and excellent corrosion and biocompatibility properties. Unfortunately, the plasticity under compression reported for Be-containing Ti-based BMGs [5], cannot be observed in Ti-based BMGs free from toxic elements which hampers their applications as structural components.

Up to now, Ti-6Al-4V alloy remains the most widely used structural metallic biomaterial for the replacement of hard tissues in artificial joints. However, the Ti-Zr-Cu-Pd BMG exhibits higher strength (almost twice) and lower Young's modulus than commercial Ti-6Al-4V [6]. Unfortunately, like most metallic glasses, the Ti-Zr-Cu-Pd alloy exhibits low plasticity. This is due to the absence of dislocation activity and the rapid propagation of few shear bands throughout the sample under application of mechanical stress. Several strategies have been pursued to improve the plasticity of this type of alloys. For example, annealing treatments at intermediate temperatures, i.e., between the glass transition temperature (T_g) and the crystallization temperature (T_c), can result in a certain increase of plastic strain [7]. However, different (and sometimes contrasting) effects are often observed after annealing depending on the exact alloy composition and the heat treatment conditions. For example, apart from causing nucleation

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Hybrid Helical Magnetic Microbots Obtained by 3D Template-Assisted Electrodeposition

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The development of micro- and nanoelectromechanical systems (MEMS/NEMS) technology has resulted in the fabrication of micro- and nanomachines that can be controlled wirelessly in liquid environments. Among the various actuation and control strategies for these machines, magnetic manipulation has emerged as the most versatile approach, and control of manipulation of three-dimensional (3-D) micro-machines using magnetic field gradients, resonant magnetic fields and rotating magnetic fields has been demonstrated.^[1-4] Rotation is a fundamental motion in biological systems at the micro- and nano levels. Flagellar motors are responsible for the motion of the bacterial flagella, and the ATP synthase molecule. These motors convert rotational energy into translational motion, a strategy that has proven to be effective in the low Reynolds number regime.^[5] Based on this principle, helical micro-machines known as artificial bacterial flagella (aBFs) have been wirelessly manipulated in liquid environments using rotating magnetic fields.^[6-10] Potential in vitro applications of these machines have made use of their ability to perform non-contact capture and transport of micro-objects. For in vivo applications such as targeted drug delivery applications, it is foreseen that a group of these micro-machines could have access to many hard-to-reach locations in the body and maximize drug loading and release. They could navigate through the circulatory, urinary and central nervous systems. The microbots could also be applied in water remediation to patrol stagnant and flowing wastewaters for effective degradation of organic pollutants. For this application, the microbots should be functionalized with a photocatalytic compound. In any case a swarm control strategy will necessitate the development of reliable processes to fabricate these machines from a combination of materials that enable magnetic control and the incorporation of therapeutic molecules.

In combination with photo-lithography, electrodeposition has been used to fabricate relatively complex wirelessly controllable 3-D micromachines.^[11] Electrodeposition enables the synthesis of a wide variety of magnetic alloys, and allows the tuning of their properties by modulating factors such as the pH and temperature of the electrolytic bath, additives, and the current density or overpotential of deposition. Electrodeposition also enables the polymerization of a unique class of intrinsically conductive polymers (ICP) on metallic substrates. Among ICP, poly(pyrrole) (PPy) is the most widely studied and characterized due to its excellent biocompatibility, enhanced physical and chemical stability, the tunability of its surface towards various cell types, and the ability to incorporate biocatalytic molecules into its matrix.^[12,13]

In this paper, we describe a high throughput method to fabricate hybrid artificial bacterial flagella (h-aBFs) consisting of a ferromagnetic core and a helical polymer tail (see Figure 1(a)). h-aBFs present a number of advantages compared to fully metallic systems including a lighter weight that reduces sedimentation and facilitates navigation and better biocompatibility because of the replacement of metallic parts with PPy. The h-aBFs were synthesized by template-assisted two-step electrodeposition. The direct laser writing (DLW) process provided a simple method to make 3-D photoreast templates acting as masks during the electrodeposition. With the use of a positive-ion photoreast, it is possible to make 3-D cavities that can be filled by electrodeposition.^[14] The hollow cavities were filled with magnetic cobalt-nickel (CoNi) and biocompatible PPy through electrodeposition. h-aBFs were physically stable in an aqueous environment with a rigid connection between the metallic and polymer segments. The wireless manipulation of these h-aBFs using rotating magnetic fields was demonstrated with a focus on swarm control.

An h-aBF is illustrated in Figure 1(a) and is designed to have a ferromagnetic head for magnetic actuation and a helical tail that provides propulsion in liquid environments. Fig.

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Focal release of neurotrophic factors by biodegradable microspheres enhance motor and sensory axonal regeneration in vitro and in vivo

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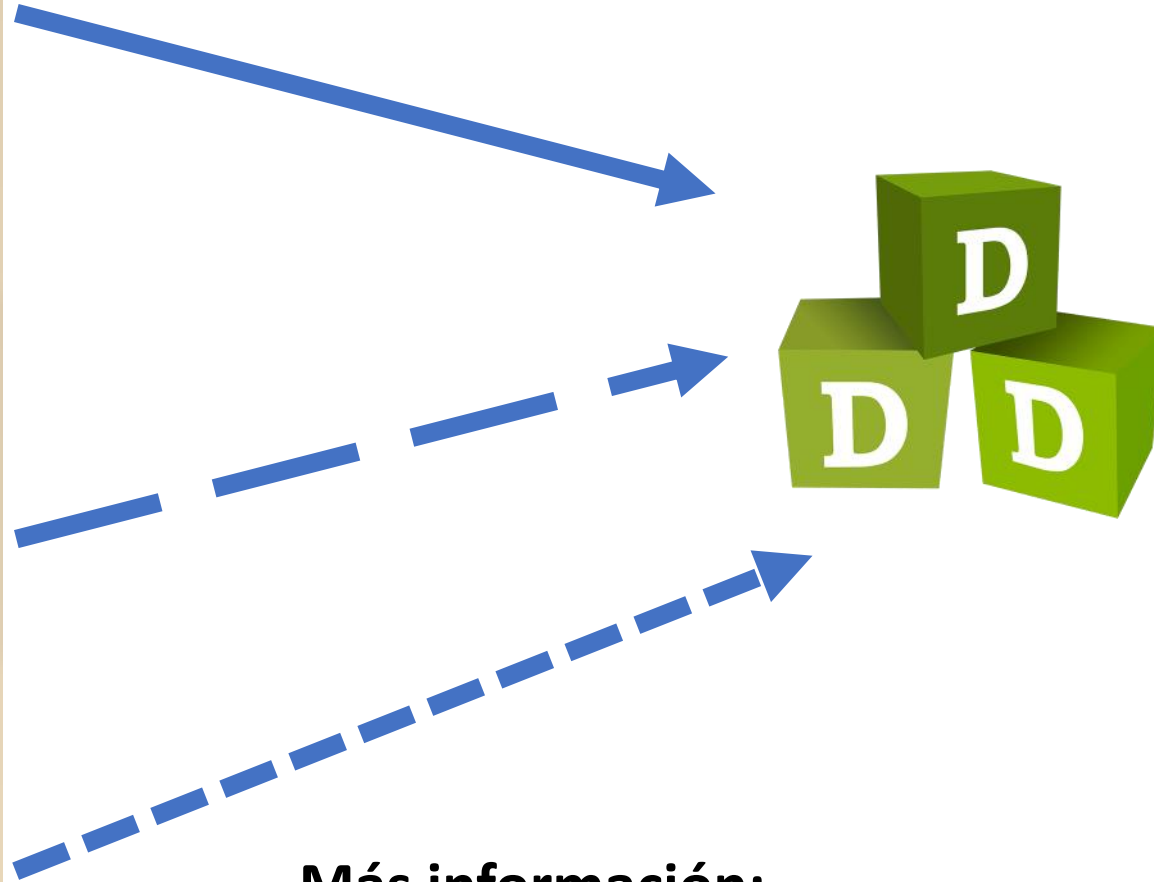
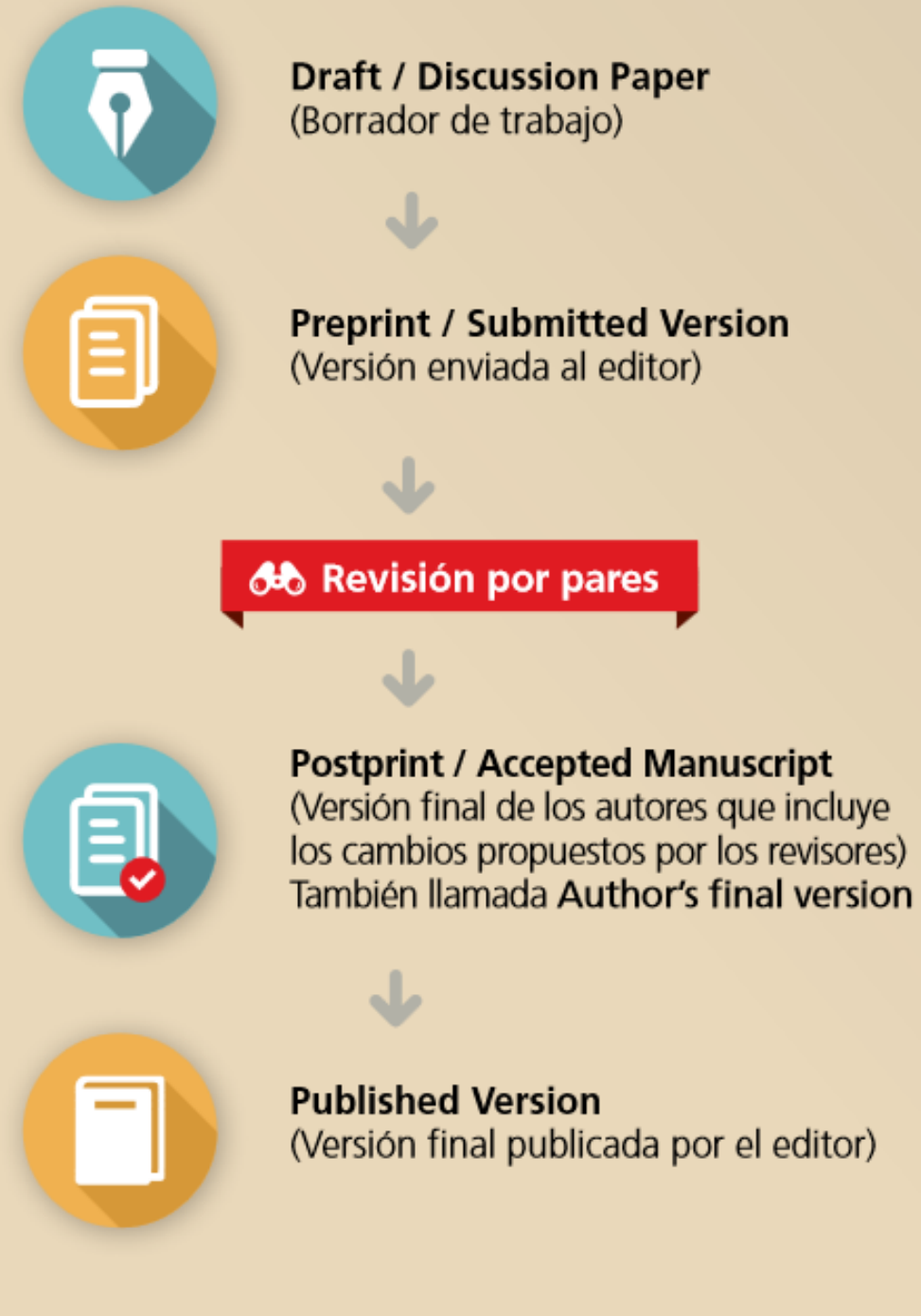


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Novel Ti–Zr–Hf–Fe Nanostructured Alloy for Biomedical Applications


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Data: 2013

Resum: The synthesis and characterization of Ti40Zr20Hf20Fe20 (atom %) alloy, in the form of rods ($\phi = 2$ mm), prepared by arc-melting, and subsequent Cu mold suction casting, is presented. The microstructure, mechanical and corrosion properties, as well as in vitro biocompatibility of this alloy, are investigated. This material consists of a mixture of several nanocrystalline phases. It exhibits excellent mechanical behavior, dominated by high strength and relatively low Young's modulus, and also good corrosion resistance, as evidenced by the passive behavior in a wide potential window and the low corrosion current densities values. In terms of biocompatibility, this alloy is not cytotoxic and preosteoblast cells can easily adhere onto its surface and differentiate into osteoblasts.


Nota: Número d'acord de subvenció EC/FP7/264635

Nota: Número d'acord de subvenció MICINN/MAT2011-27380-C02-01

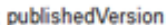
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Llengua: Anglès

Document: article ; recerca 

Matèria: Ti-based alloy ; Biomaterials ; microstructure ; Mechanical behavior ; Corrosion performance


Publicat a: *Materials*, Vol. 6 (2013) , p. 4930-4945, ISSN 1996-1944

DOI: 10.3390/ma6114930

PMID: 28788368



Towards the creation of a tactile version of the Self-Assessment Manikin (T-SAM) for the emotional assessment of visually impaired people

Iturregui-Gallardo, Gonzalo  (Universitat Autònoma de Barcelona)


Méndez Ulrich, Jorge Luis  (Universitat Autònoma de Barcelona)

Data: 2019

Resum: The Self-Assessment Manikin (SAM) is one of the most extensively used instruments in the situational assessment of the emotional state in experimental or clinical contexts of emotional induction. However, there is no instrument of this kind adapted for blind or visually impaired people. In this paper, we present the results of the preliminary validation of a tactile adaptation of the SAM, the Tactile Self-Assessment Manikin (T-SAM). For this purpose, 5 people with visual disabilities participated in a focus group in which the usability of this adaptation was evaluated, as well as its usefulness in representing the valence and arousal subscales of the original instrument. The analysis of the content of this focus group suggests a pertinent content validity, while the participants correctly understood both the purpose of the instrument, and the tactile representations of valence and activation constructs created by the research team. However, the difficulty of blind people from birth to understand the graphic representation of an emotional facial expression was detected, which represents a limitation to control in future steps in the validation of T-SAM.

Nota: Número d'acord de subvenció AGAUR/2017/SGR-113

Nota: Número d'acord de subvenció MINECO/FFI2015-64038-P

Drets: Tots els drets reservats 

Llengua: Anglès

Document: article ; recerca ; acceptedVersion

Matèria: Audiovisual translation ; Media accessibility ; Psychophysiology ; Audio subtitling ; Emotions

Publicat a: *International Journal of Disability, Development and Education*, 2019 , ISSN 1465-346X

DOI: 10.1080/1034912X.2019.1626007



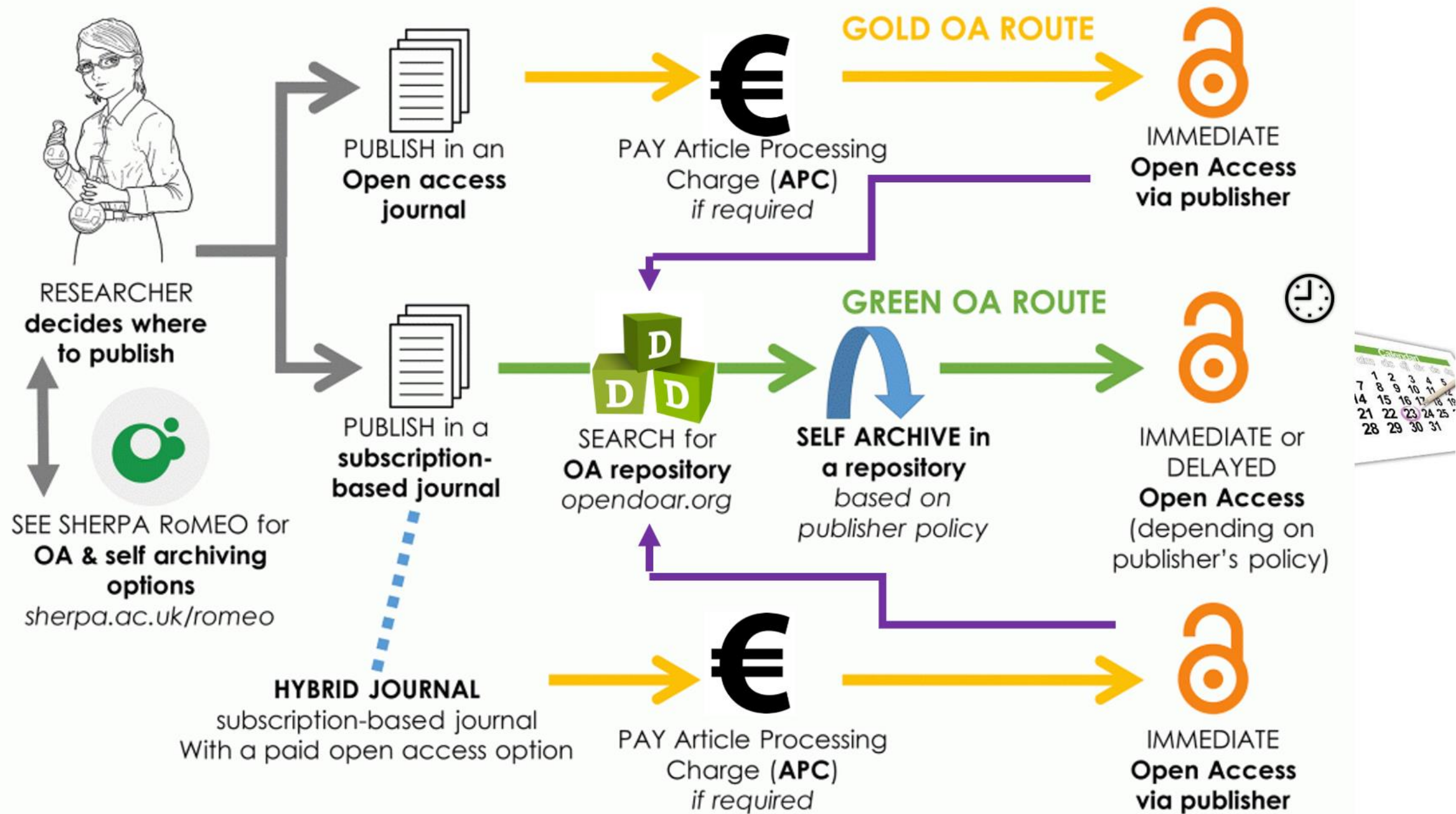
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Anys	Consultes	Descàrregues	
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📅 🔍 2019	27.430	25.744	
📅 🔍 2018	33.401	32.876	
📅 🔍 2017	37.550	37.137	
📅 🔍 2016	37.120	36.996	
📅 🔍 2015	25.274	25.143	
📅 🔍 2014	12.459	12.412	
📅 🔍 2013	2.416	2.391	
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Tens un projecte Horitzó 2020 i has de presentar un Research Data Management Plan ?

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Contacte:
dmp@uab.cat

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Contesta les preguntes i obtindràs un Research Data Management Plan (DMP) FAIR per Horitzó 2020



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D3.1. Data Management Plan (DMP)

Masó Pau, Joan  (Centre de Recerca Ecològica i Aplicacions Forestals)


Serral i Montoro, Ivette (Centre de Recerca Ecològica i Aplicacions Forestals)

ConnectinGEO

Data: 2015

Resum: Report on the Data Management Plan (DMP) elaboration and execution, in which will be specified what data will be open in ConnectinGEO as the project is participating in the Open Research Data Pilot. The document will outline how research data will be handled during a research project, and after it is completed and will follow the template in Annex 1 for the EC DMP guidelines document http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf. It will be done in collaboration with WP1 and WP5.

Nota: Número d'acord de subvenció EC/H2020/641538

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Llengua: Anglès

Document: workingPaper

Matèria: ConnectinGEO, DMP, Open Research Data Pilot



15 p, 840.5 KB

PGD en el DDD

Informació:


Discussió (0)

Estadístiques d'ús

Cita bibliogràfica -- Enllaç permanent: <https://ddd.uab.cat/record/222614>


Google Scholar: [cites](#)

Website interface for BACUS 2.0

Doğru, Gökhan  (Universitat Autònoma de Barcelona)

Publicació: Universitat Autònoma de Barcelona, 2020

Resum: This dataset includes our web interface for BACUS 2. 0 with all the front-end and back-end pages and database tables as well as installation guide and some extra research files.

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Llengua: Anglès

Matèria: [Bacus](#) ; [Terminology](#) ; [Web interface for terminology databases](#)

Obra relacionada: Aguilar-Amat, Anna; Sánchez-Gijón, Pilar. 'BACUS (Base de Coneixement Universitari): una ontología para el lenguaje especializado'. Actas del VII Simposio Internacional de Comunicación Social, Vol. I, Centro de Lingüística Aplicada, Ministerio de Ciencia, Tecnología y Medio Ambiente, pàg. 255-258. Santiago de Cuba, 2003

DOI: [10.5565/ddd.uab.cat/222614](https://doi.org/10.5565/ddd.uab.cat/222614)



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