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Spotlight Your Research: Making your Research Visible on the Internet

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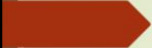
Patricia Berge, Rosemary Del Toro, Rose Fortier, Heather James, Martha G. Jerme, and Mindy Williams



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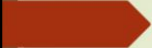
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Objectives

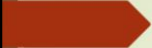
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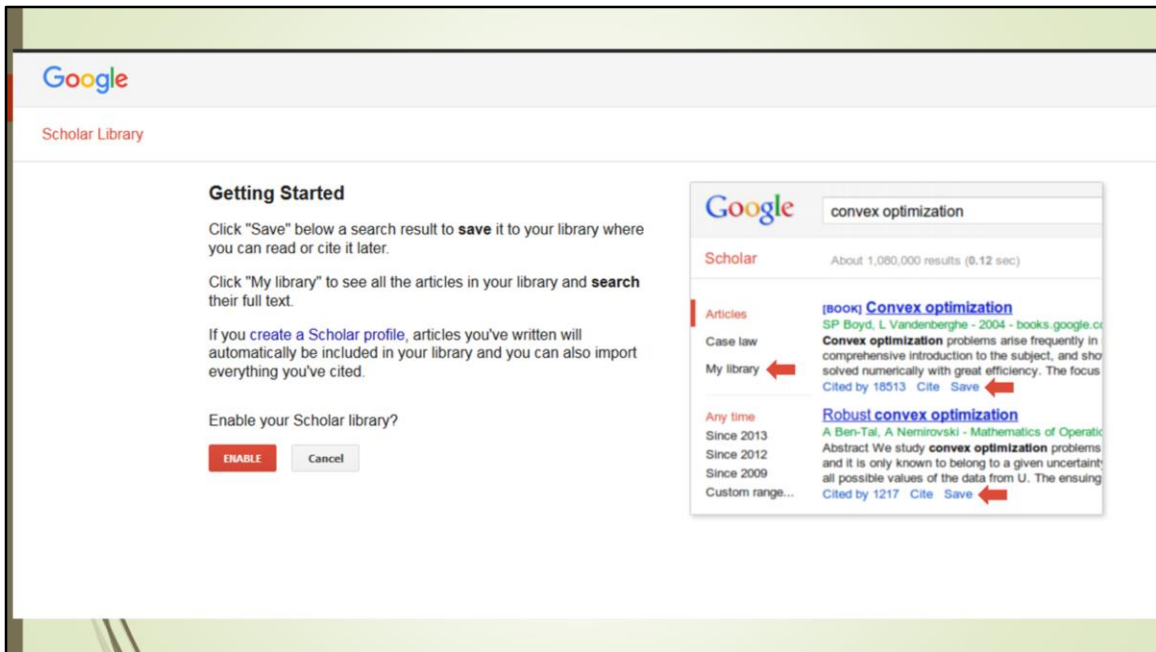
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- ▶ Many services exist to help researchers disseminate their work
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S Heinrich, W Brown - US Patent.App. 09/990,045, 2001

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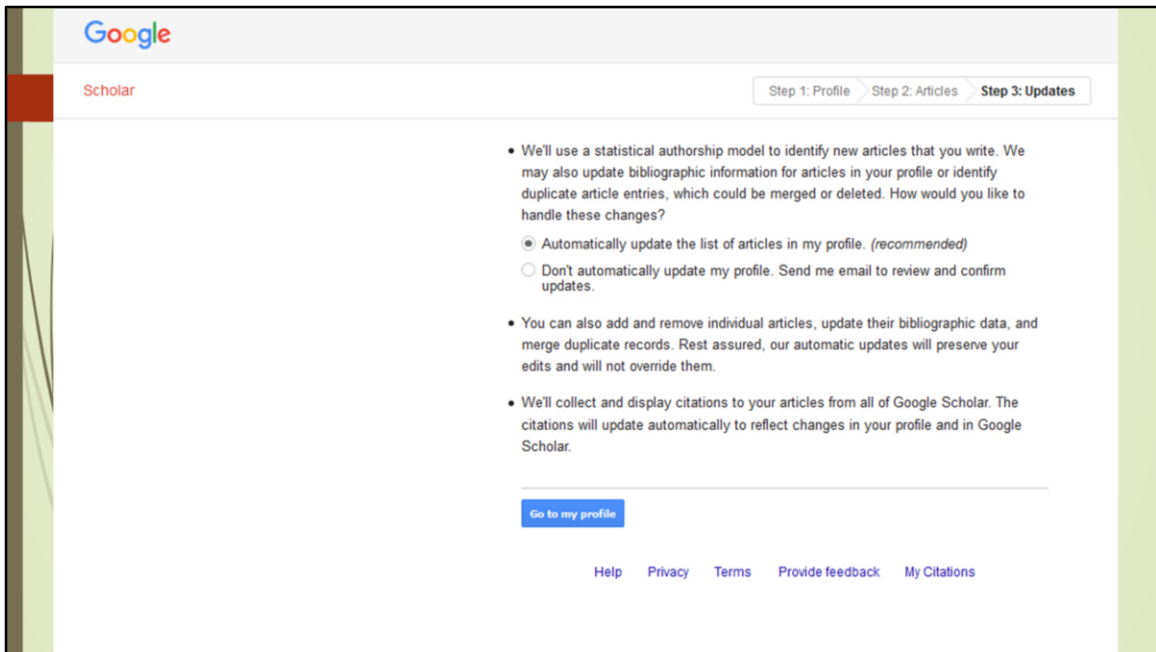
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- Effect of chip and pad geometry on solder joint formation in SMT**
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- Theoretical analysis of strong-axis bending mode vibrations for resonant microcantilever (bio) chemical sensors in gas or liquid phase**
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- Effects of load and thermal conditions on Pb-free solder joint reliability**
J Liang, S Downes, N Dariavach, D Shangguan... - Journal of electronic materials, 2004
- Liquid-phase chemical sensing using lateral mode resonant cantilevers**
LA Beardslee, KS Demirci, Y Luzinova, B Mizaikoff... - Analytical chemistry, 2010
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- Effect of coating viscoelasticity on quality factor and limit of detection of microcantilever chemical sensors**
I Dufour, F Lochon, SM Heinrich, F Josse, D Reblère - Sensors Journal, IEEE, 2007
- Characteristics of laterally vibrating resonant microcantilevers in viscous liquid media**
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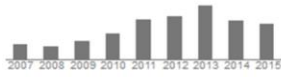
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	NJ Nigro, SM Heinrich, AF Elkouh, X Zou, R Fournelle, PS Lee Journal of Electronic Packaging 115 (2), 141-146						

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Stephen Heinrich

Theoretical analysis of strong-axis bending mode vibrations for resonant microcantilever (bio) chemical sensors in gas or liquid phase [\[PDF\] from archives-ouvertes.fr](#) [FindIt@MU](#)

Authors **Isabelle Dufour, Stephen M Heinrich, Fabien Josse**
Publication date **2007/2**
Journal **Microelectromechanical Systems, Journal of**
Volume **16**
Issue **1**
Pages **44-49**
Publisher **IEEE**

Description **Abstract—The frequency stability, sensitivity, and limit of detection of a coated-cantilever chemical sensor operating in a dynamic mode are mainly determined by its mechanical quality factor. While a coated-cantilever operating in the gas phase exhibits a large reduction in quality factor, immersion in liquids results in an even greater reduction in the factor due to displaced fluid mass and losses in the surrounding liquid. In this paper, two different bending vibration modes are studied in order to minimize both the losses induced ...**

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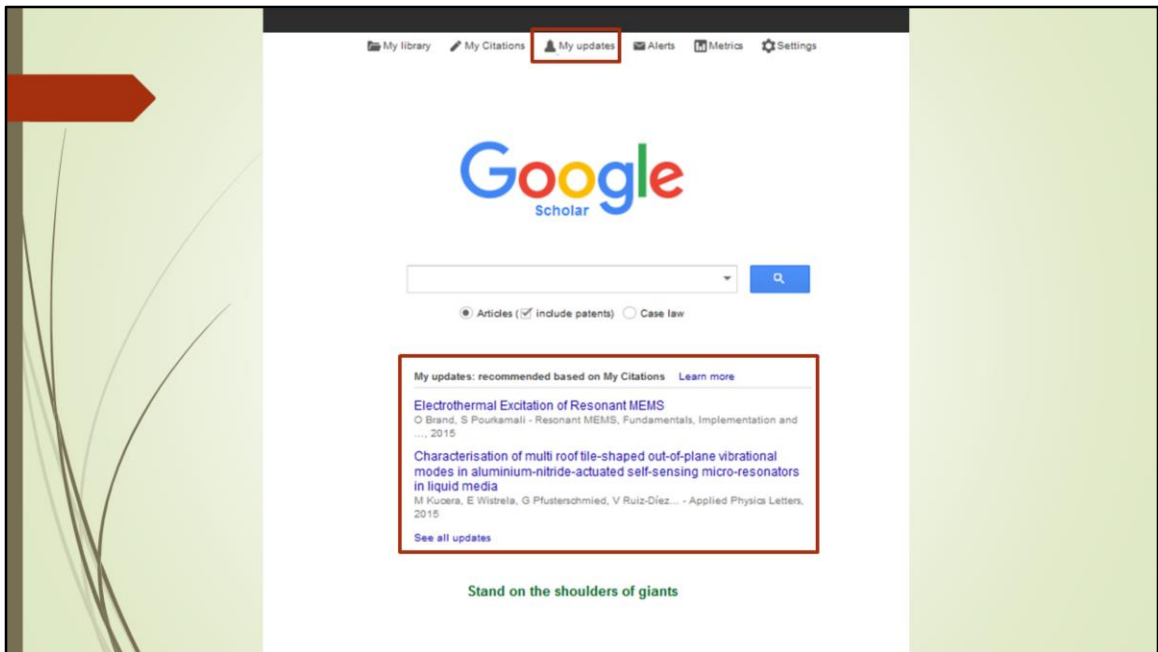
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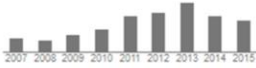
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<input checked="" type="checkbox"/>	Analysis of resonating microcantilevers operating in a viscous liquid environment				53	2008
<input checked="" type="checkbox"/>	Effect of chip and pad geometry on solder joint formation in SMT				49	1993
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<input checked="" type="checkbox"/>	Theoretical analysis of strong-axis bending mode vibrations for resonant microcantilever (bio) chemical sensors in gas or liquid phase				42	2007

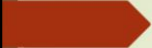
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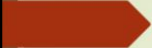


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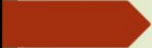
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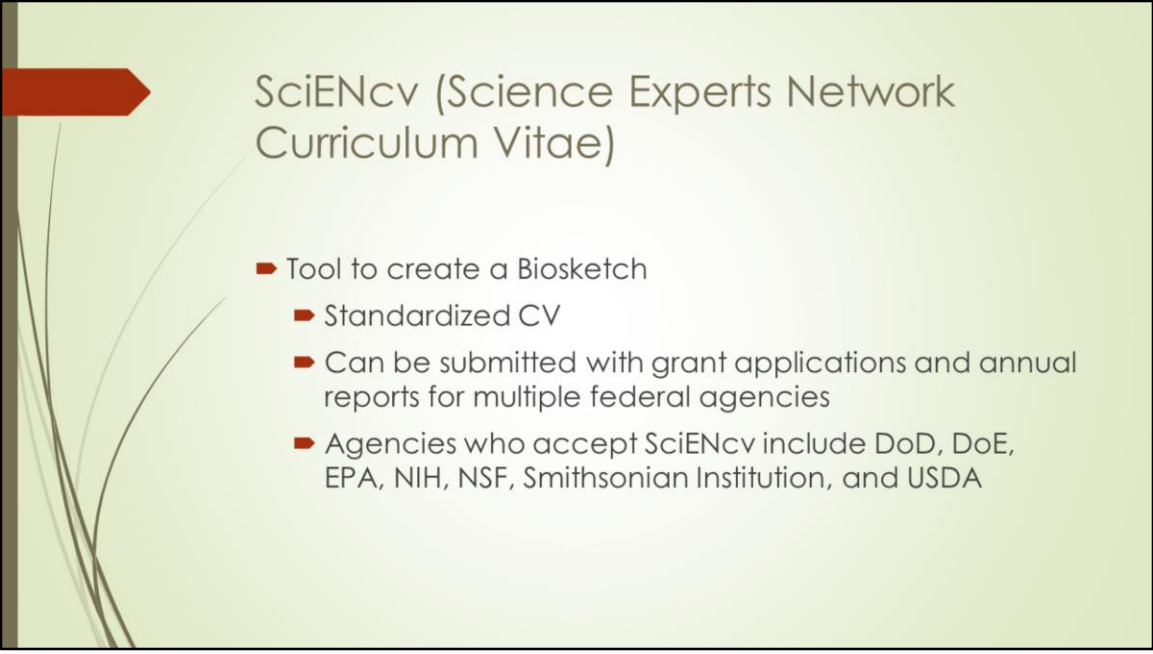
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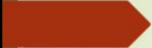
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