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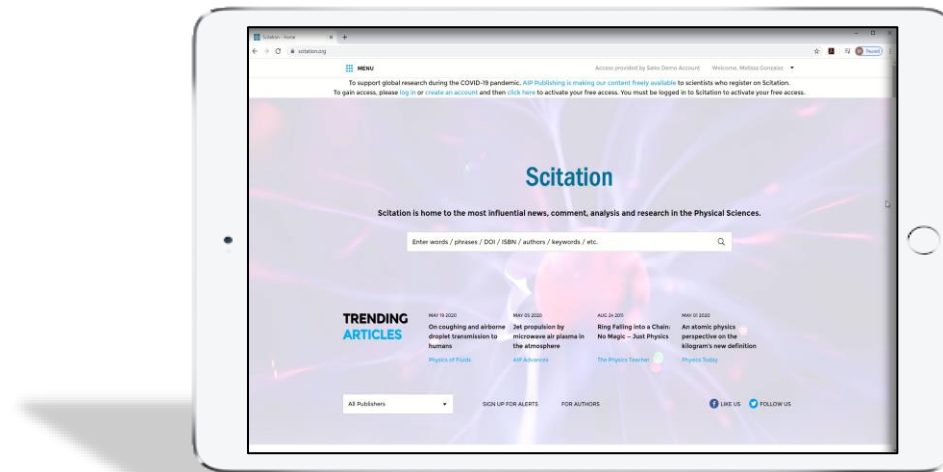
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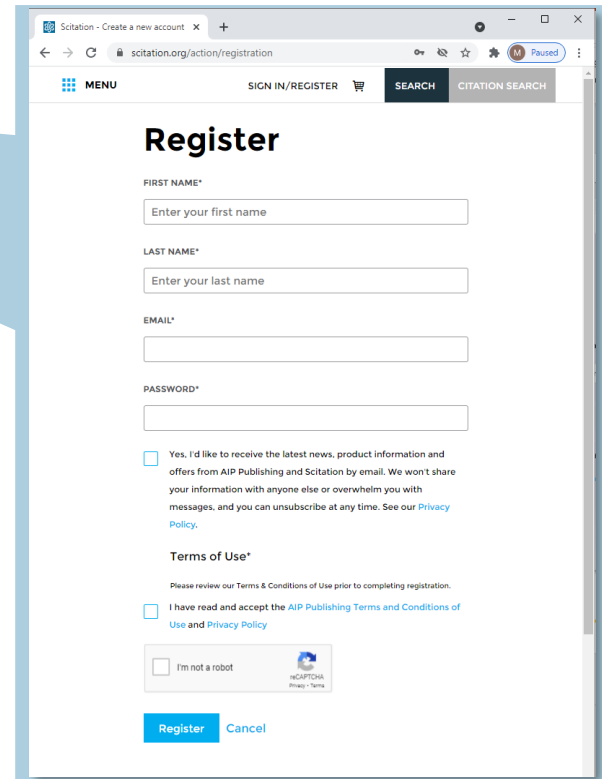
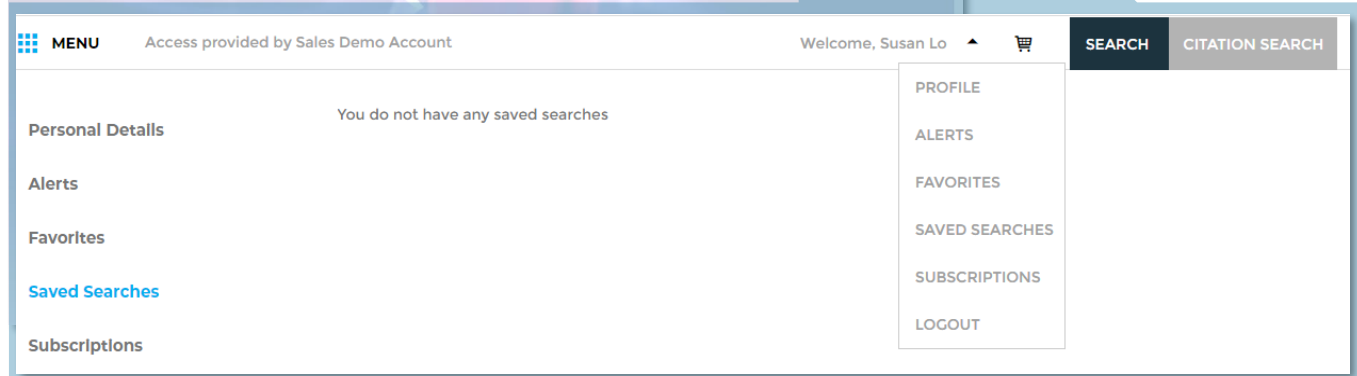
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The magnifying glass will display an “advanced search” option with “search tips” on how to use any combination of filters for better, faster results.

- View “Advanced Search” options and access “Search Tips”
- Easy, step-by-step instructions for doing basic and more advanced searches for quick and easy access to the content you need

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For "nanoscopic" anywhere

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AUTHOR

- Binder, Kurt 13
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Full . Apr 1, 2005 . 1 Citations

Transient Currents in Nanoscopic Circuit

Salvador Godoy and Yoshinobu Okamura
AIP Conference Proceedings **757**, 56 (2005); <https://doi.org/10.1063/1.190>

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J. Čížek, I. Procházka, O. S. Morozova, C. Borchers and A. Pundt
Journal of Applied Physics **107**, 043509 (2010); <https://doi.org/10.1063/1.3>

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Nanoscopic magnetic field sensor based magnetoresistance

S. A. Solin, D. R. Hines, A. C. H. Rowe, J. S. Tsai and Yu A. Pashkin
Journal of Vacuum Science & Technology B: Microelectronics and Nanomaterials Phenomena **21**, 3002 (2003); <https://doi.org/10.1116/1.1627811>

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Nanoscopic friction as a probe of local p

Robert Szoszkiewicz and Elisa Riedo
Appl. Phys. Lett. **87**, 033105 (2005); <https://doi.org/10.1063/1.1995954>

Full . Sep 8, 2003 . 58 Citations

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Mário Janda, Mostafa E. Hassan, Viktor Martišovič, Karol Hensel, Michal Kwiatkowski, Piotr Terebun, Joanna Pawiat and Zdenko Machala

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MAY 11 2021

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Full . Published Online: 11 May 2021 Accepted: April 2021

Silicon cantilevers locally heated from 300 K up to the melting point: Temperature profile measurement from their resonances frequency shift

EP

Journal of Applied Physics **129**, 184503 (2021); <https://doi.org/10.1063/5.0040733>

Basile Pottier¹, Felipe Aguilar Sandoval², Mickaël Geitner¹, Francisco Esteban Melo³, and Ludovic Bellon^{1,a)}

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- Raman spectroscopy
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- Tuning forks
- Phase lock loop
- Structural vibrations

ABSTRACT

When heated, micro-resonators present a shift of their resonance frequencies. We specifically silicon cantilevers heated locally by laser absorption and evaluate the and experimentally their temperature profile and its interplay with the mechanic resonances. We present an enhanced version of our earlier model [Sandoval *et al.* Phys. **117**, 234503 (2015)], including both elasticity and geometry temperature dependence showing that the latter can account for 20% of the observed shift for the first flexural mode. The temperature profile description takes into account thermal clamping conditions, radiation at high temperature, and lower conductivity than bulk silicon due to phonon confinement. Thanks to space–power equivalence in the heat equation, scanning the heating point along the cantilever directly reveals the temperature profile. Finally, frequency shift measurement can be used to infer the temperature field with a few percent precision.

I. INTRODUCTION

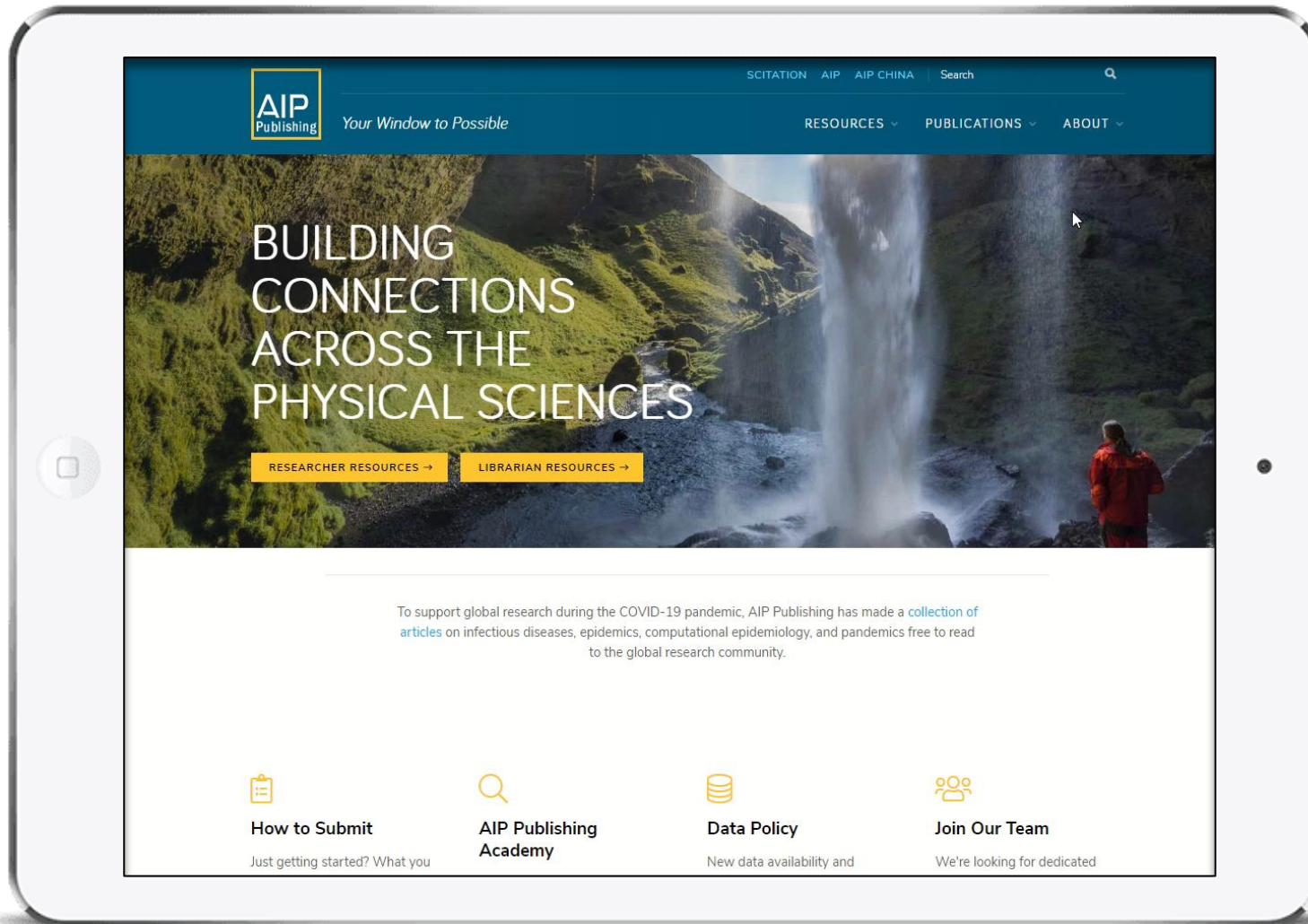
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