

Stephen M Heinrich

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

346
citations

1163117

8
h-index

839539

18
g-index

34
all docs

34
docs citations

34
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of resonating microcantilevers operating in a viscous liquid environment. <i>Sensors and Actuators A: Physical</i> , 2008, 141, 43-51.	4.1	84
2	Characteristics of laterally vibrating resonant microcantilevers in viscous liquid media. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	46
3	Theoretical Analysis of Strong-Axis Bending Mode Vibrations for Resonant Microcantilever (Bio)Chemical Sensors in Gas or Liquid Phase. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 44-49.	2.5	43
4	Effect of Coating Viscoelasticity on Quality Factor and Limit of Detection of Microcantilever Chemical Sensors. <i>IEEE Sensors Journal</i> , 2007, 7, 230-236.	4.7	42
5	Lateral-Mode Vibration of Microcantilever-Based Sensors in Viscous Fluids Using Timoshenko Beam Theory. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 848-860.	2.5	18
6	Generalized Model of Resonant Polymer-Coated Microcantilevers in Viscous Liquid Media. <i>Analytical Chemistry</i> , 2008, 80, 5760-5767.	6.5	15
7	Toward Higher-Order Mass Detection: Influence of an Adsorbate's Rotational Inertia and Eccentricity on the Resonant Response of a Bernoulli-Euler Cantilever Beam. <i>Sensors</i> , 2015, 15, 29209-29232.	3.8	11
8	Study of viscoelastic effect on the frequency shift of microcantilever chemical sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 2166-2173.	3.0	10
9	Resonant Microcantilevers for the Determination of the Loss Modulus of Thin Polymer Films. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 788-790.	2.5	6
10	Geometrical optimization of resonant cantilevers vibrating in in-plane flexural modes. , 2010, , .		5
11	Damping and mass sensitivity of laterally vibrating resonant microcantilevers in viscous liquid media. , 2011, , .		4
12	Timoshenko beam effects in lateral-mode microcantilever-based sensors in liquids. <i>Micro and Nano Letters</i> , 2013, 8, 762-765.	1.3	3
13	Analytical Modeling of a Novel High- Q Disk Resonator for Liquid-Phase Applications. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 38-49.	2.5	2
14	Compensation, Tuning, and Trimming of MEMS Resonators. <i>Advanced Micro & Nanosystems</i> , 0, , 305-325.	0.2	2
15	Timoshenko Beam Model for Lateral Vibration of Liquid-Phase Microcantilever-Based Sensors. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014, , 115-124.	0.5	1