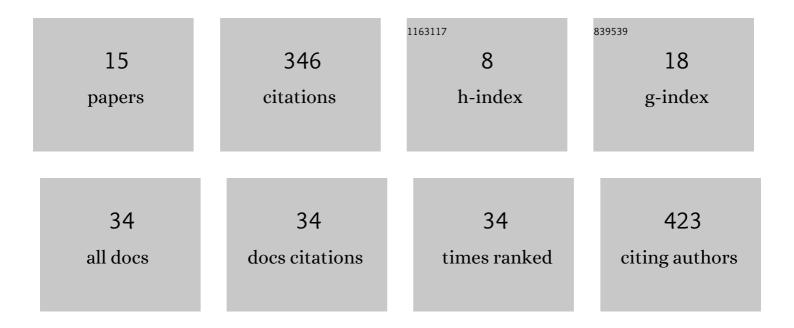
Stephen M Heinrich

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analysis of resonating microcantilevers operating in a viscous liquid environment. Sensors and Actuators A: Physical, 2008, 141, 43-51.	4.1	84
2	Characteristics of laterally vibrating resonant microcantilevers in viscous liquid media. Journal of Applied Physics, 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. Journal of Microelectromechanical Systems, 2007, 16, 44-49.	2.5	43
4	Effect of Coating Viscoelasticity on Quality Factor and Limit of Detection of Microcantilever Chemical Sensors. IEEE Sensors Journal, 2007, 7, 230-236.	4.7	42
5	Lateral-Mode Vibration of Microcantilever-Based Sensors in Viscous Fluids Using Timoshenko Beam Theory. Journal of Microelectromechanical Systems, 2015, 24, 848-860.	2.5	18
6	Generalized Model of Resonant Polymer-Coated Microcantilevers in Viscous Liquid Media. Analytical Chemistry, 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. Sensors, 2015, 15, 29209-29232.	3.8	11
8	Study of viscoelastic effect on the frequency shift of microcantilever chemical sensors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2166-2173.	3.0	10
9	Resonant Microcantilevers for the Determination of the Loss Modulus of Thin Polymer Films. Journal of Microelectromechanical Systems, 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 lateralâ€mode microcantileverâ€based sensors in liquids. Micro and Nano Letters, 2013, 8, 762-765.	1.3	3
13	Analytical Modeling of a Novel High- \$Q\$ Disk Resonator for Liquid-Phase Applications. Journal of Microelectromechanical Systems, 2015, 24, 38-49.	2.5	2
14	Compensation, Tuning, and Trimming of MEMS Resonators. Advanced Micro & Nanosystems, 0, , 305-325.	0.2	2
15	Timoshenko Beam Model for Lateral Vibration of Liquid-Phase Microcantilever-Based Sensors. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 115-124.	0.5	1