

# Joseph F Vignola

## List of Publications by Year in descending order

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19  
papers

290  
citations

1163117

8  
h-index

1125743

13  
g-index

19  
all docs

19  
docs citations

19  
times ranked

288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Attachment loss of micromechanical and nanomechanical resonators in the limits of thick and thin support structures. <i>Journal of Applied Physics</i> , 2007, 101, 013521.	2.5	89
2	Effect of viscous loss on mechanical resonators designed for mass detection. <i>Applied Physics Letters</i> , 2006, 88, 041921.	3.3	79
3	Laser detection of sound. <i>Journal of the Acoustical Society of America</i> , 1991, 90, 1275-1286.	1.1	32
4	Shaping of a system's frequency response using an array of subordinate oscillators. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 129-139.	1.1	23
5	Dissipation from microscale and nanoscale beam resonators into a surrounding fluid. <i>Applied Physics Letters</i> , 2008, 92, 124102.	3.3	15
6	Noise sensitivity of a mass detection method using vibration modes of coupled microcantilever arrays. <i>Applied Physics Letters</i> , 2012, 101, 043104.	3.3	14
7	Architectural considerations of micro- and nanoresonators for mass detection in the presence of a fluid. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	13
8	Mode-shape-based mass detection scheme using mechanically diverse, indirectly coupled microresonator arrays. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	11
9	Equation of motion of microparticles in suspension in an insonified medium. <i>Journal of the Acoustical Society of America</i> , 1992, 92, 332-334.	1.1	4
10	Considerations for Use of Square-Paddle Resonators for Arrays of Micro- and Nanoscale Devices. , 2009, , .		3
11	Sonar inter-ping noise field characterization during cetacean behavioral response studies off Southern California. <i>Acoustical Physics</i> , 2017, 63, 204-215.	1.0	3
12	Inter-ping sound field from a simulated mid-frequency active sonar, and its implication to marine mammal tonal masking. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	2
13	Synthetic Aperture Imaging of Surface Laid Targets by Sound. <i>Sensing and Imaging</i> , 2012, 13, 55-65.	1.5	1
14	Impact of mass ratio and bandwidth on apparent damping of a harmonic oscillator with subordinate oscillator array. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
15	Inverse Eigenmode Method for Identifying and Locating Added Mass in Mechanically Diverse Coupled Microresonator Arrays. , 2011, , .		0
16	Micro vibrometry measurements of a subordinate oscillator array. , 2014, , .		0
17	Soundscape characteristics of the Eastern Taiwan Strait Indo-Pacific humpback dolphin habitat. , 2016, , .		0
18	Characterization of marine seismic survey inter-pulse sound field in an Arctic shallow-water environment. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Time-domain chemical vapour mass sensor using a functionalized subordinate array. Medical Devices & Sensors, 2020, 3, e10062.	2.7	0