Mani Hossein-Zadeh

List of Publications by Year
in descending order

42 papers	826 citations	567281 15 h-index	477307 29 g-index
42 all docs	42 docs citations	42 times ranked	823 citing authors

#	Article	IF	Citations
1	Sub-pg mass sensing and measurement with an optomechanical oscillator. Optics Express, 2013, 21, 19555.	3.4	109
2	Characterization of a radiation-pressure-driven micromechanical oscillator. Physical Review A, 2006, 74, .	2.5	89
3	An Optomechanical Oscillator on a Silicon Chip. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 276-287.	2.9	68
4	Fiber-taper coupling to Whispering-Gallery modes of fluidic resonators embedded in a liquid medium. Optics Express, 2006, 14, 10800.	3.4	66
5	Free ultra-high-Q microtoroid: a tool for designing photonic devices. Optics Express, 2007, 15, 166.	3.4	65
6	Observation of optical spring effect in a microtoroidal optomechanical resonator. Optics Letters, 2007, 32, 1611.	3.3	52
7	Observation of injection locking in an optomechanical rf oscillator. Applied Physics Letters, 2008, 93, 191115.	3.3	41
8	Thermo-optomechanical oscillator for sensing applications. Optics Express, 2013, 21, 4653.	3.4	41
9	Photonic RF Down-Converter Based on Optomechanical Oscillation. IEEE Photonics Technology Letters, 2008, 20, 234-236.	2.5	40
10	Mass Sensing With Optomechanical Oscillation. IEEE Sensors Journal, 2013, 13, 146-147.	4.7	32
11	Brownian noise in radiation-pressure-driven micromechanical oscillators. Applied Physics Letters, 2006, 89, 261109.	3.3	29
12	Cluster Synchronization in Multilayer Networks: A Fully Analog Experiment with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:mi>C</mml:mi></mml:math> Oscillators with Physically Dissimilar Coupling. Physical Review Letters, 2019, 122, 014101.	7.8	28
13	High-Q microresonators for mid-IR light sources and molecular sensors. Optics Letters, 2012, 37, 4389.	3.3	27
14	Thermo-optomechanical oscillations in high-Q ZBLAN microspheres. Optics Letters, 2013, 38, 4413.	3.3	20
15	Demonstration of a cw room temperature mid-IR microlaser. Optics Letters, 2014, 39, 4458.	3.3	20
16	Importance of Intrinsic-Q in Microring-Based Optical Filters and Dispersion-Compensation Devices. IEEE Photonics Technology Letters, 2007, 19, 1045-1047.	2.5	13
17	Characterization of Optomechanical RF frequency Mixing/Down-Conversion and its Application in Photonic RF Receivers. Journal of Lightwave Technology, 2014, 32, 309-317.	4.6	11
18	Spectral and Modal Properties of a Mid-IR Spherical Microlaser. IEEE Journal of Quantum Electronics, 2017, 53, 1-9.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Injection locking of optomechanical oscillators via acoustic waves. Optics Express, 2018, 26, 8275.	3.4	9
20	Enhancing Mechanical Quality Factors of Micro-Toroidal Optomechanical Resonators Using Phononic Crystals. Journal of Microelectromechanical Systems, 2016, 25, 311-319.	2.5	7
21	Underwater Acoustic Signal Detection and Down-Conversion Using Optomechanical Resonance and Oscillation. Journal of Lightwave Technology, 2020, 38, 3789-3797.	4.6	7
22	Selfâ€homodyne photonic microwave receiver architecture based on linear optical modulation and filtering. Microwave and Optical Technology Letters, 2008, 50, 345-350.	1.4	6
23	Faraday Effect in High-Q Whispering-Gallery Mode Optical Cavities. IEEE Photonics Journal, 2011, 3, 872-880.	2.0	6
24	On the Performance of High-Q Multiring Optical Filters. IEEE Photonics Journal, 2010, 2, 991-1002.	2.0	5
25	Power scaling of narrow-linewidth mid-IR spherical microlasers. Laser Physics Letters, 2018, 15, 085112.	1.4	5
26	Application of dynamic line narrowing in resonant optical sensing. Optics Letters, 2011, 36, 4395.	3.3	4
27	Direct stabilization of optomechanical oscillators. Optics Letters, 2017, 42, 1946.	3.3	4
28	Acousto-Optical Transducer With Optomechanical Gain. IEEE Photonics Technology Letters, 2018, 30, 1960-1963.	2.5	4
29	Detection and Sensing Using Coupled Oscillatory Systems at the Synchronization Edge. IEEE Sensors Journal, 2020, 20, 12992-12998.	4.7	2
30	Characterization of a Radiation-Pressure-Driven Micromechanical Oscillator. , 2006, , .		1
31	Practical limitations of high-Q multi-ring optical filters. , 2011, , .		1
32	Lowâ€power photonic control of a microwave ring resonator using bulk illumination. Microwave and Optical Technology Letters, 2013, 55, 1594-1599.	1.4	1
33	Experimental observations of synchronization between two bidirectionally coupled physically dissimilar oscillators. Physical Review E, 2020, 102, 042215.	2.1	1
34	On the Performance of Intracavity Gas Sensors Based on Whispering-Gallery Microlasers. IEEE Sensors Journal, 2020, 20, 9772-9778.	4.7	1
35	Oscillation linewidth and brownian noise in a radiation-pressure-driven opto-mechanical oscillator. , 2006, , .		0
36	Fiber-taper coupling to Whispering-Gallery modes of a droplet resonator embedded in a liquid medium. , 2006, , .		0

#	Article	IF	Citations
37	Free UH-Q microtoroids, new tools for designing photonic devices. , 2007, , .		0
38	Observation of injection locking in an optomechanical RF oscillator. , 2008, , .		0
39	Photonic RF-receiver based on all-optical down-conversion in an optomechanical oscillator. , 2008, , .		0
40	Photonic microwave down-conversion based on linear modulation and filtering. , 2011, , .		0
41	Design of a Monolithic Low-Threshold Narrow-Linewidth CW Mid-IR Silicon Raman Laser. IEEE Photonics Technology Letters, 2019, 31, 1143-1146.	2.5	0
42	Ultrasonic acousto-optical receivers based on optomechanical resonance and oscillation. , 2019, , .		0