

# Oriel Shoshani

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

371  
citations

1039880

9  
h-index

794469

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifurcation Generated Mechanical Frequency Comb. Physical Review Letters, 2018, 121, 244302.	2.9	73
2	Tuning nonlinear damping in graphene nanoresonators by parametric direct internal resonance. Nature Communications, 2021, 12, 1099.	5.8	49
3	Bifurcation diagram and dynamic response of a MEMS resonator with a 1:3 internal resonance. Applied Physics Letters, 2019, 114, .	1.5	38
4	Tailoring the nonlinear response of MEMS resonators using shape optimization. Applied Physics Letters, 2017, 110, .	1.5	37
5	Anomalous Decay of Nanomechanical Modes Going Through Nonlinear Resonance. Scientific Reports, 2017, 7, 18091.	1.6	34
6	Phase Noise Reduction in an MEMS Oscillator Using a Nonlinearly Enhanced Synchronization Domain. Journal of Microelectromechanical Systems, 2016, 25, 870-876.	1.7	25
7	Resonant modal interactions in micro/nano-mechanical structures. Nonlinear Dynamics, 2021, 104, 1801-1828.	2.7	24
8	Phase Noise Reduction and Optimal Operating Conditions for a Pair of Synchronized Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1-11.	3.5	18
9	Characterizing MEMS nonlinearities directly: The ring-down measurements. , 2015, , .		11
10	Deterministic and stochastic analyses of the lock-in phenomenon in vortex-induced vibrations. Journal of Sound and Vibration, 2018, 434, 17-27.	2.1	11
11	Tuning linear and nonlinear characteristics of a resonator via nonlinear interaction with a secondary resonator. Nonlinear Dynamics, 2020, 99, 433-443.	2.7	11
12	Zero-dispersion point in curved micro-mechanical beams. Nonlinear Dynamics, 2022, 107, 1-14.	2.7	11
13	Theoretical aspects of transverse galloping. Nonlinear Dynamics, 2018, 94, 2685-2696.	2.7	8
14	Amplifying the response of a driven resonator via nonlinear interaction with a secondary resonator. Nonlinear Dynamics, 2021, 105, 1427-1436.	2.7	5
15	Amplitude stabilization in a synchronized nonlinear nanomechanical oscillator. Communications Physics, 2022, 5, .	2.0	5
16	Theoretical aspects of synchronization in transverse galloping aeroelastic instability. Applied Mathematical Modelling, 2020, 80, 257-267.	2.2	4
17	Generalized Parametric Resonance. SIAM Journal on Applied Dynamical Systems, 2016, 15, 767-788.	0.7	2
18	Modeling for Nonlinear Vibrational Response of Mechanical Systems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 277-319.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Investigation of transverse galloping in the presence of structural nonlinearities: theory and experiment. <i>Nonlinear Dynamics</i> , 2020, 102, 1197-1207.	2.7	2
20	Non-linear stability of a perturbed Orr-Sommerfeld solution for the wake of a stationary cylinder at low Reynolds numbers. <i>International Journal of Non-Linear Mechanics</i> , 2013, 57, 176-182.	1.4	1