

Rafael Mendez

List of Publications by Year in descending order

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32
papers

480
citations

840776

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677142

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32
all docs

32
docs citations

32
times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Processes in Chaotic Microwave Cavities in the Presence of Absorption. <i>Physical Review Letters</i> , 2005, 94, 144101.	7.8	85
2	Distribution of Reflection Coefficients in Absorbing Chaotic Microwave Cavities. <i>Physical Review Letters</i> , 2003, 91, 174102.	7.8	80
3	Wannier-Stark Ladders in One-Dimensional Elastic Systems. <i>Physical Review Letters</i> , 2006, 97, 114301.	7.8	49
4	Compressional and torsional wave amplitudes in rods with periodic structures. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 1961-1967.	1.1	48
5	Locally periodic Timoshenko rod: Experiment and theory. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 2814-2819.	1.1	34
6	Anderson localization in finite disordered vibrating rods. <i>Europhysics Letters</i> , 2013, 101, 67002.	2.0	20
7	Experimental Evidence of Rainbow Trapping and Bloch Oscillations of Torsional Waves in Chirped Metallic Beams. <i>Scientific Reports</i> , 2019, 9, 1860.	3.3	19
8	Vibrating soap films: An analog for quantum chaos on billiards. <i>American Journal of Physics</i> , 1998, 66, 601-607.	0.7	15
9	Doorway states in quasi-one-dimensional elastic systems. <i>Europhysics Letters</i> , 2012, 99, 54002.	2.0	14
10	Experimental evidence of coherent transport. <i>Scientific Reports</i> , 2016, 6, 25157.	3.3	13
11	Acoustic resonance spectroscopy for the advanced undergraduate laboratory. <i>European Journal of Physics</i> , 2012, 33, 1761-1769.	0.6	12
12	A new Fano resonance in measurement processes. <i>Europhysics Letters</i> , 2015, 110, 54003.	2.0	11
13	Emulating tightly bound electrons in crystalline solids using mechanical waves. <i>Scientific Reports</i> , 2020, 10, 10229.	3.3	10
14	Fluctuation-Dissipation Theorem for Metastable Systems. <i>Physical Review Letters</i> , 2003, 90, 135701.	7.8	9
15	Novel doorways and resonances in large-scale classical systems. <i>Europhysics Letters</i> , 2011, 94, 30005.	2.0	8
16	On the Accuracy of the Timoshenko Beam Theory Above the Critical Frequency: Best Shear Coefficient. <i>Journal of Mechanics</i> , 2016, 32, 515-518.	1.4	8
17	On the electronic structure of benzene and borazine: an algebraic description. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 105101.	1.5	7
18	Chaotic scattering with direct processes: a generalization of Poisson's kernel for non-unitary scattering matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 015103.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Emergence of acoustic and optical bands in elastic systems. Journal of the Acoustical Society of America, 2013, 134, 4393-4400.	1.1	6
20	Wave systems with direct processes and localized losses or gains: The nonunitary Poisson kernel. Physical Review E, 2012, 86, 016207.	2.1	5
21	Molecular orbitals of an elastic artificial benzene. Physical Review A, 2022, 105, .	2.5	4
22	Absorption strength in absorbing chaotic cavities. Physical Review E, 2008, 78, 036208.	2.1	3
23	Deviations from Poisson statistics in the spectra of free rectangular thin plates. Physical Review E, 2021, 103, 043004.	2.1	3
24	Emulating Tunneling with Elastic Vibrating Beams. , 2018, , .		3
25	Interpolation formula for the reflection coefficient distribution of absorbing chaotic cavities in the presence of time reversal symmetry. Journal of Physics A, 2005, 38, 10873-10878.	1.6	2
26	Tight-binding model for torsional and compressional waves in high-quality coupled-resonator phononic metamaterials. Mechanics of Advanced Materials and Structures, 2022, 29, 6301-6307.	2.6	2
27	Frequency filter for elastic bending waves: Poincaré map method and experiment. Journal of Mechanics, 2021, 37, 532-542.	1.4	2
28	Bloch Oscillations in Mechanical Vibrations. , 2018, , .		1
29	Experimental validation of the theoretical prediction for the optical S matrix. Physical Review B, 2020, 101, .	3.2	1
30	Quasi-one-dimensional modes in strip plates: Theory and experiment. , 2014, , .		0
31	Spectral statistics of the acoustic stadium. , 2014, , .		0
32	Dirac equation and energy levels of electrons in one-dimensional wells: Plane wave expansion method. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114298.	2.7	0