

Rafael Mendez

List of Publications by Year in descending order

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32
papers

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840776

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Tight-binding model for torsional and compressional waves in high-quality coupled-resonator phononic metamaterials. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6301-6307.	2.6	2
2	Molecular orbitals of an elastic artificial benzene. <i>Physical Review A</i> , 2022, 105, .	2.5	4
3	Deviations from Poisson statistics in the spectra of free rectangular thin plates. <i>Physical Review E</i> , 2021, 103, 043004.	2.1	3
4	Frequency filter for elastic bending waves: Poincaré map method and experiment. <i>Journal of Mechanics</i> , 2021, 37, 532-542.	1.4	2
5	Dirac equation and energy levels of electrons in one-dimensional wells: Plane wave expansion method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114298.	2.7	0
6	Experimental validation of the theoretical prediction for the optical S matrix. <i>Physical Review B</i> , 2020, 101, .	3.2	1
7	Emulating tightly bound electrons in crystalline solids using mechanical waves. <i>Scientific Reports</i> , 2020, 10, 10229.	3.3	10
8	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
9	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
10	Bloch Oscillations in Mechanical Vibrations. , 2018, , .		1
11	Emulating Tunneling with Elastic Vibrating Beams. , 2018, , .		3
12	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
13	Experimental evidence of coherent transport. <i>Scientific Reports</i> , 2016, 6, 25157.	3.3	13
14	A new Fano resonance in measurement processes. <i>Europhysics Letters</i> , 2015, 110, 54003.	2.0	11
15	Quasi-one-dimensional modes in strip plates: Theory and experiment. , 2014, , .		0
16	Spectral statistics of the acoustic stadium. , 2014, , .		0
17	Emergence of acoustic and optical bands in elastic systems. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 4393-4400.	1.1	6
18	Anderson localization in finite disordered vibrating rods. <i>Europhysics Letters</i> , 2013, 101, 67002.	2.0	20

#	ARTICLE	IF	CITATIONS
19	Acoustic resonance spectroscopy for the advanced undergraduate laboratory. <i>European Journal of Physics</i> , 2012, 33, 1761-1769.	0.6	12
20	Wave systems with direct processes and localized losses or gains: The nonunitary Poisson kernel. <i>Physical Review E</i> , 2012, 86, 016207.	2.1	5
21	Doorway states in quasi-“one-dimensional elastic systems. <i>Europhysics Letters</i> , 2012, 99, 54002.	2.0	14
22	Novel doorways and resonances in large-scale classical systems. <i>Europhysics Letters</i> , 2011, 94, 30005.	2.0	8
23	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
24	Absorption strength in absorbing chaotic cavities. <i>Physical Review E</i> , 2008, 78, 036208.	2.1	3
25	Wannier-Stark Ladders in One-Dimensional Elastic Systems. <i>Physical Review Letters</i> , 2006, 97, 114301.	7.8	49
26	Interpolation formula for the reflection coefficient distribution of absorbing chaotic cavities in the presence of time reversal symmetry. <i>Journal of Physics A</i> , 2005, 38, 10873-10878.	1.6	2
27	Locally periodic Timoshenko rod: Experiment and theory. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 2814-2819.	1.1	34
28	Direct Processes in Chaotic Microwave Cavities in the Presence of Absorption. <i>Physical Review Letters</i> , 2005, 94, 144101.	7.8	85
29	Distribution of Reflection Coefficients in Absorbing Chaotic Microwave Cavities. <i>Physical Review Letters</i> , 2003, 91, 174102.	7.8	80
30	Fluctuation-Dissipation Theorem for Metastable Systems. <i>Physical Review Letters</i> , 2003, 90, 135701.	7.8	9
31	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
32	Vibrating soap films: An analog for quantum chaos on billiards. <i>American Journal of Physics</i> , 1998, 66, 601-607.	0.7	15