Agnessa Kovaleva

List of Publications by Year
in descending order

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Version: 2024-02-01

44	255	932766	996533
papers	citations	10 h-index	15 g-index

45	45	45	73
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Control of Mechanical Oscillations. Foundations in Engineering Mechanics, 1999, , .	0.0	25
2	Fresnel integrals and irreversible energy transfer in an oscillatory system with time-dependent parameters. Physical Review E, 2011, 83, 026602.	0.8	24
3	Limiting phase trajectories and emergence of autoresonance in nonlinear oscillators. Physical Review E, 2013, 88, 024901.	0.8	23
4	Classical analog of quasilinear Landau-Zener tunneling. Physical Review E, 2012, 85, 016202.	0.8	18
5	Nonlinear energy transfer in classical and quantum systems. Physical Review E, 2013, 87, 022904.	0.8	17
6	Autoresonance versus localization in weakly coupled oscillators. Physica D: Nonlinear Phenomena, 2016, 320, 1-8.	1.3	17
7	Intense energy transfer and superharmonic resonance in a system of two coupled oscillators. Physical Review E, 2010, 81, 056215.	0.8	16
8	Capture into resonance of coupled Duffing oscillators. Physical Review E, 2015, 92, 022909.	0.8	13
9	Approximation of Escape Time for Lagrangian Systems With Fast Noise. IEEE Transactions on Automatic Control, 2007, 52, 2338-2341.	3.6	12
10	An exact solution of the first-exit time problem for a class of structural systems. Probabilistic Engineering Mechanics, 2009, 24, 463-466.	1.3	11
11	Resonance energy transport and exchange in oscillator arrays. Physical Review E, 2013, 88, 022904.	0.8	10
12	Nonstationary Resonant Dynamics of Oscillatory Chains and Nanostructures. Foundations in Engineering Mechanics, 2018, , .	0.0	7
13	Response enhancement in an oscillator chain. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 373-386.	1.7	6
14	Solution of the exit time problem for mechanical systems with fast noise. Probabilistic Engineering Mechanics, 2006, 21, 300-304.	1.3	5
15	Energy localization in weakly dissipative resonant chains. Physical Review E, 2016, 94, 022208.	0.8	5
16	Autoresonance in weakly dissipative Kleinâ€“Gordon chains. Physica D: Nonlinear Phenomena, 2020, 402, 132284.	1.3	5
17	Explicit asymptotic solutions for a class of weak-noise escape problems. Probabilistic Engineering Mechanics, 2009, 24, 84-88.	1.3	4
18	Autoresonant dynamics of weakly coupled oscillators. Nonlinear Dynamics, 2016, 84, 683-695.	2.7	4

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19	Control of autoresonance in mechanical and physical models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160213.	1.6	4
20	A reliability-based criterion of structural performance for structures with linear damping. Smart Structures and Systems, 2006, 2, 313-320.	1.9	4
21	Nonstationary energy localization vs conventional stationary localization in weakly coupled nonlinear oscillators. Regular and Chaotic Dynamics, 2016, 21, 147-159.	0.3	3
22	Energy transfer in autoresonant Kleinâ€“Gordon chains. Physica D: Nonlinear Phenomena, 2017, 361, 28-34.	1.3	3
23	Autoresonance in a strongly nonlinear chain driven at one end. Physical Review E, 2018, 98, .	0.8	3
24	Random Rocking Dynamics of a Multidimensional Structure. Lecture Notes in Applied and Computational Mechanics, 2009, , 149-160.	2.0	3
25	Asymptotic Analysis of Autoresonant Oscillator Chains. Procedia IUTAM, 2016, 19, 169-177.	1.2	2
26	Internal autoresonance in coupled oscillators with slowly decaying frequency. Physical Review E, 2017, 96, 032213.	0.8	2
27	Resonance-induced energy localization in a weakly dissipative nonlinear chain. Physical Review E, 2018, 98, 012205.	0.8	2
28	Risk-Sensitive Control for Nonlinear Oscillatory Systems with Small Noise. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1089-1093.	0.4	1
29	Risk-sensitive control for nonlinear flexible structures. Structural Control and Health Monitoring, 2001, 8, 291-307.	0.4	1
30	Control of a weakly perturbed Lagrangian system with a guaranteed escape rate. Probabilistic Engineering Mechanics, 2011, 26, 39-43.	1.3	1
31	Two Coupled Oscillators. Foundations in Engineering Mechanics, 2018, , 3-26.	0.0	1
32	Response enhancement and energy localization in autoresonant nonlinear chains. International Journal of Non-Linear Mechanics, 2021, 135, 103753.	1.4	1
33	Noise-Induced Synchronization and Stochastic Resonance in a Bistable System. , 2005, , 345-353.		1
34	Control Against Large Deviation for Oscillatory Systems. Solid Mechanics and Its Applications, 2003, , 247-256.	0.1	1
35	Excitation and Control of Autoresonance in an Oscillator Chain. IFAC-PapersOnLine, 2015, 48, 1037-1042.	0.5	0
36	Classical Analog of Linear and Quasi-Linear Quantum Tunneling. Foundations in Engineering Mechanics, 2018, , 337-354.	0.0	0

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37	Limiting Phase Trajectories and the Emergence of Autoresonance in Anharmonic Oscillators. Foundations in Engineering Mechanics, 2018, , 195-223.	0.0	0
38	Quasi-One-Dimensional Nonlinear Lattices. Foundations in Engineering Mechanics, 2018, , 85-140.	0.0	0
39	Nonlinear Targeted Energy Transfer and Macroscopic Analogue of the Quantum Landau-Zener Effect in Coupled Granular Chains. Foundations in Engineering Mechanics, 2018, , 293-325.	0.0	0
40	Duffing Oscillators. Foundations in Engineering Mechanics, 2018, , 155-186.	0.0	0
41	Targeted Energy Transfer. Foundations in Engineering Mechanics, 2018, , 227-243.	0.0	0
42	Control of Structures by Means of High-Frequency Vibration. Solid Mechanics and Its Applications, 2003, , 227-236.	0.1	0
43	Energy Transport and Localization in Weakly Dissipative Resonant Chains. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2020, , 191-202.	0.1	0
44	Resonance-Induced Energy Localization in Weakly Dissipative Anharmonic Chains. , 2020, , 277-285.		0