Gyorgy Karolyi

List of Publications by Year in descending order

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54	1,221	394421	361022
papers	citations	19 h-index	35 g-index

57	57	57	736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New features of doubly transient chaos: complexity of decay. Journal of Physics Complexity, 2021, 2, 035001.	2.2	6
2	Soft impact of an elongated elasto-plastic missile. International Journal of Mechanical Sciences, 2021, 212, 106804.	6.7	1
3	Betonszerkezetek kÃ¡rosodÃ¡sa lÃ¶vedÃ©kbecsapÃ³dÃ¡s hatÃ¡sÃ¡ra I. rÃ©sz. Haditechnika, 2021, 55, 65-70.	0.0	0
4	Climate change in mechanical systems: the snapshot view of parallel dynamical evolutions. Nonlinear Dynamics, 2021, 106, 2781-2805.	5.2	5
5	Betonszerkezetek kÃ¡rosodÃ¡sa lÃ¶vedÃ©kbecsapÃ³dÃ¡s hatÃ¡sÃ¡ra. Haditechnika, 2021, 55, 56-59.	0.0	0
6	Climate change in a conceptual atmosphereâ€“phytoplankton model. Earth System Dynamics, 2020, 11, 603-615.	7.1	4
7	On the impact of a rigidâ€“plastic missile into rigid or elastic target. International Journal of Non-Linear Mechanics, 2017, 91, 1-7.	2.6	5
8	Discrete and nonlocal models of Engesser and Haringx elastica. International Journal of Mechanical Sciences, 2017, 130, 571-585.	6.7	11
9	Unrevealed part of myosin's powerstroke accounts for high efficiency of muscle contraction. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2325-2333.	2.4	2
10	Local Effects of Impact into Concrete Structure. Periodica Polytechnica: Civil Engineering, 2016, 60, 573-582.	0.6	1
11	Fractals and Chaos in the Hemodynamics of Intracranial Aneurysms. Springer Series in Computational Neuroscience, 2016, , 263-277.	0.3	0
12	Stress-free layers in photoinduced deformations of photoelastomer beams. International Journal of Non-Linear Mechanics, 2015, 70, 126-133.	2.6	1
13	Emerging fractal patterns in a real 3D cerebral aneurysm. Journal of Theoretical Biology, 2015, 368, 95-101.	1.7	12
14	Parametric study for aircraft impact. , 2014, , .		0
15	Doubly Transient Chaos: Generic Form of Chaos in Autonomous Dissipative Systems. Physical Review Letters, 2013, 111, 194101.	7.8	31
16	Driving a conceptual model climate by different processes: Snapshot attractors and extreme events. Physical Review E, 2013, 87, 022822.	2.1	16
17	Overdamped mechanical model of myosin II. Periodica Polytechnica: Civil Engineering, 2013, 57, 11.	0.6	1
18	Drifting Impact Oscillator With a New Model of the Progression Phase. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	2.2	23

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19	Are the fractal skeletons the explanation for the narrowing of arteries due to cell trapping in a disturbed blood flow?. Computers in Biology and Medicine, 2012, 42, 276-281.	7.0	11
20	A chaotically driven model climate: extreme events and snapshot attractors. Nonlinear Processes in Geophysics, 2011, 18, 573-580.	1.3	29
21	Fractal snapshot components in chaos induced by strong noise. Physical Review E, 2011, 83, 046201.	2.1	19
22	Internal Lever Arm Model for Myosin II. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2011, , 155-163.	0.2	0
23	Fractal structures in stenoses and aneurysms in blood vessels. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5605-5617.	3.4	18
24	Finite-size Lyapunov exponents: a new tool for lake dynamics. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2010, 163, 251-259.	0.4	7
25	SPATIALLY CHAOTIC BIFURCATIONS OF AN ELASTIC WEB OF LINKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 4011-4028.	1.7	6
26	Dynamics of Finite-Size Particles in Chaotic Fluid Flows. Understanding Complex Systems, 2010, , 51-87.	0.6	37
27	Spatial and temporal separation in overdamped systems. Periodica Polytechnica: Civil Engineering, 2010, 54, 89.	0.6	1
28	Chaotic advection in blood flow. Physical Review E, 2009, 80, 016213.	2.1	32
29	Fly-wheel model exhibits the hither and thither motion of a bouncing ball. International Journal of Non-Linear Mechanics, 2009, 44, 905-912.	2.6	12
30	Reactions in chaotic flows. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2009, , 307-322.	0.6	0
31	Chaos and nonlinear dynamics: Advances and perspectives. European Physical Journal: Special Topics, 2008, 165, 1-4.	2.6	0
32	Onset of chaotic advection in open flows. Physical Review E, 2008, 78, 016317.	2.1	8
33	Chaotic advection and fractality: applications in oceanography. , 2007, , .		2
34	Effective dimensions and chemical reactions in fluid flows. Physical Review E, 2007, 76, 046315.	2.1	11
35	Conservative spatial chaos of buckled elastic linkages. Chaos, 2006, 16, 033111.	2.5	11
36	Coexistence of inertial competitors in chaotic flows. Chaos, 2006, 16, 043110.	2.5	6

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37	Chemical and biological activity in open flows: A dynamical system approach. Physics Reports, 2005, 413, 91-196.	25.6	183
38	Growth induced curve dynamics for filamentary micro-organisms. Journal of Mathematical Biology, 2005, 51, 355-366.	1.9	12
39	Rock-scissors-paper game in a chaotic flow: The effect of dispersion on the cyclic competition of microorganisms. Journal of Theoretical Biology, 2005, 236, 12-20.	1.7	58
40	Chemical Transients in Closed Chaotic Flows: The Role of Effective Dimensions. Physical Review Letters, 2005, 95, 264501.	7.8	21
41	Fractal scaling of microbial colonies affects growth. Physical Review E, 2005, 71, 031915.	2.1	9
42	Reactive Particles in Random Flows. Physical Review Letters, 2004, 92, 174101.	7.8	22
43	Spatial models of prebiotic evolution: soup before pizza?. Origins of Life and Evolution of Biospheres, 2003, 33, 319-355.	1.9	50
44	Competing populations in flows with chaotic mixing. Theoretical Population Biology, 2003, 63, 77-90.	1.1	39
45	Metabolic network dynamics in open chaotic flow. Chaos, 2002, 12, 460-469.	2.5	19
46	A model for resolving the plankton paradox: coexistence in open flows. Freshwater Biology, 2000, 45, 123-132.	2.4	37
47	Chaotic advection, diffusion, and reactions in open flows. Chaos, 2000, 10, 89-98.	2.5	63
48	Chaotic flow: The physics of species coexistence. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13661-13665.	7.1	117
49	Chemical or biological activity in open chaotic flows. Physical Review E, 1999, 59, 5468-5481.	2.1	51
50	Symbolic dynamics of infinite depth: finding global invariants for BVPs. Physica D: Nonlinear Phenomena, 1999, 134, 316-336.	2.8	12
51	Fractality, chaos, and reactions in imperfectly mixed open hydrodynamical flows. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 120-131.	2.6	13
52	Advection of Active Particles in Open Chaotic Flows. Physical Review Letters, 1998, 80, 500-503.	7.8	95
53	Wada dye boundaries in open hydrodynamical flows. Physica A: Statistical Mechanics and Its Applications, 1997, 239, 235-243.	2.6	43
54	Chaotic tracer scattering and fractal basin boundaries in a blinking vortex-sink system. Physics Reports, 1997, 290, 125-147.	25.6	48