Gabor Csernak

List of Publications by Year
in descending order

28 papers	238 citations	1040056 9 h-index	996975 15 g-index
28 all docs	28 docs citations	28 times ranked	175 citing authors

#	Article	IF	Citations
1	On the periodic response of a harmonically excited dry friction oscillator. Journal of Sound and Vibration, 2006, 295, 649-658.	3.9	48
2	Sub-harmonic resonant solutions of a harmonically excited dry friction oscillator. Nonlinear Dynamics, 2007, 50, 93-109.	5.2	29
3	On the chaotic behaviour of a simple dry-friction oscillator. Mathematics and Computers in Simulation, 2014, 95, 55-62.	4.4	25
4	DIGITAL CONTROL AS SOURCE OF CHAOTIC BEHAVIOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1365-1378.	1.7	19
5	Chip formation as an oscillator during the turning process. Journal of Sound and Vibration, 2009, 326, 809-820.	3.9	16
6	Effects of built-up edge-induced oscillations on chip formation during turning. Journal of Sound and Vibration, 2013, 332, 2057-2069.	3.9	14
7	Life Expectancy of Transient Microchaotic Behaviour. Journal of Nonlinear Science, 2005, 15, 63-91.	2.1	12
8	Multi-Baker Map as a Model of Digital PD Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650023.	1.7	11
9	Clustered Simple Cell Mapping: An extension to the Simple Cell Mapping method. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 607-622.	3.3	10
10	Exploration of the chaotic phenomena induced by fast plastic deformation of metals. International Journal of Advanced Manufacturing Technology, 2009, 40, 270-276.	3.0	8
11	Stability of turning processes for periodic chip formation. Advances in Manufacturing, 2018, 6, 345-353.	6.1	7
12	The effects of sensory quantization and control torque saturation on human balance control. Chaos, 2021, 31, 033145.	2.5	6
13	Asymmetric and chaotic responses of dry friction oscillators with different static and kinetic coefficients of friction. Meccanica, 2021, 56, 2401-2414.	2.0	5
14	Quick estimation of escape rate with the help of fractal dimension. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 595-605.	3.3	4
15	Sampling and round-off, as sources of chaos in PD-controlled systems. , 2011, , .		4
16	The Hybrid Micro-chaos Map: Digitally Controlled Inverted Pendulum with Dry Friction. Periodica Polytechnica, Mechanical Engineering, 2019, 63, 148-155.	1.4	3
17	Twofold quantization in digital control: deadzone crisis and switching line collision. Nonlinear Dynamics, 2019, 98, 1365-1378.	5.2	3
18	Methods for the Quick Analysis of Micro-chaos. Springer Proceedings in Mathematics and Statistics, 2014, , 383-395.	0.2	3

#	Article	IF	Citations
19	Evaluation of contact force distribution along a curve, based on measured electric potentials. Acta Mechanica, 2021, 232, 853-879.	2.1	3
20	Chaos and transient chaos in a simple oscillator with Coulomb friction law. , 2012, , .		2
21	Quantization-induced control error in a digitally controlled system. Nonlinear Dynamics, 2016, 85, 2749-2763.	5.2	2
22	Life expectancy calculation of transient chaos in the 2D micro-chaos map. Periodica Polytechnica, Mechanical Engineering, 2007, 51, 59.	1.4	2
23	Life Expectancy Calculations of Transient Chaotic Behaviour Using Approximate 1D Maps. Meccanica, 2000, 35, 547-562.	2.0	1
24	Experimental analysis and numerical modelling of contact damping. Journal of Sound and Vibration, 2020, 484, 115544.	3.9	1
25	Micro-chaotic Behaviour in PD-controlled Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 144-148.	0.4	0
26	Detailed Contact Surface Evaluation Based on Electric Field Potentials. Procedia CIRP, 2017, 62, 323-328.	1.9	0
27	Analysis of pole acceleration in spatial motions by the generalization of pole changing velocity. Acta Mechanica, 2019, 230, 2607-2624.	2.1	0
28	The State-space Model of Micro-chaos. International Journal of Mathematical Models and Methods in Applied Sciences, 2021, 15, 184-189.	0.1	0