

Martin Horvat

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

657
citations

687363

13
h-index

580821

25
g-index

43
all docs

43
docs citations

43
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	PHYSICS OF ECLIPSING BINARIES. II. TOWARD THE INCREASED MODEL FIDELITY. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 29.	7.7	200
2	The discriminatory value of cardiorespiratory interactions in distinguishing awake from anaesthetised states: a randomised observational study. <i>Anaesthesia</i> , 2015, 70, 1356-1368.	3.8	71
3	Exponential complexity of an adiabatic algorithm for an NP-complete problem. <i>Physical Review A</i> , 2006, 73, .	2.5	49
4	Physics of Eclipsing Binaries. III. Spin-Orbit Misalignment. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 26.	7.7	48
5	Transport in a disordered tight-binding chain with dephasing. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	47
6	Physics of Eclipsing Binaries. IV. The Impact of Interstellar Extinction on the Light Curves of Eclipsing Binaries. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 63.	7.7	37
7	Computational Methods for Physicists. <i>Graduate Texts in Physics</i> , 2012, , .	0.2	24
8	Computational Methods in Physics. <i>Graduate Texts in Physics</i> , 2018, , .	0.2	21
9	Uni-directional transport properties of a serpent billiard. <i>Journal of Physics A</i> , 2004, 37, 3133-3145.	1.6	20
10	On ergodic and mixing properties of the triangle map. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 395-415.	2.8	18
11	Railway switch transport model. <i>Physical Review E</i> , 2012, 86, 052102.	2.1	17
12	Bolometric Treatment of Irradiation Effects: General Discussion and Application to Binary Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 36.	7.7	17
13	Exactly solvable model of a highly efficient thermoelectric engine. <i>Physical Review E</i> , 2009, 80, 010102.	2.1	15
14	Wigner function statistics in classically chaotic systems. <i>Journal of Physics A</i> , 2003, 36, 4015-4034.	1.6	11
15	The ensemble of random Markov matrices. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07005.	2.3	11
16	Relativistic Positioning System in perturbed spacetime. <i>Classical and Quantum Gravity</i> , 2015, 32, 215004.	4.0	9
17	Scale-dependent estimates of the growth of forecast uncertainties in a global prediction system. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1287492.	1.7	9
18	An assessment of scale-dependent variability and bias in global prediction models. <i>Climate Dynamics</i> , 2020, 54, 287-306.	3.8	9

#	ARTICLE	IF	CITATIONS
19	The bends on a quantum waveguide and cross-products of Bessel functions. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 6349-6379.	2.1	6
20	Quantum-classical correspondence on compact phase space. Nonlinearity, 2006, 19, 1471-1493.	1.4	3
21	Dynamical approach to chains of scatterers. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11593-11606.	2.1	3
22	The Egorov property in perturbed cat maps. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9771-9781.	2.1	2
23	Nanocoolers. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P10026.	2.3	2
24	The Effects of Barycentric and Asymmetric Transverse Velocities on Eclipse and Transit Times. Astrophysical Journal, 2018, 854, 163.	4.5	2
25	Calculation of multiphoton ionization amplitudes and cross sections of few-electron atoms. Physical Review A, 2021, 103, .	2.5	2
26	Detection of coupling in Duffing oscillator systems. Chaos, 2021, 31, 063130.	2.5	2
27	A hybrid method for calculation of Ruelle-Pollicott resonances. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 465101.	2.1	1
28	Basics of Numerical Analysis. Graduate Texts in Physics, 2012, , 1-55.	0.2	1
29	Value Statistics of Chaotic Wigner Function. Progress of Theoretical Physics Supplement, 2003, 150, 348-352.	0.1	0
30	Triangle Map and Its Ergodic Properties. , 2008, , .		0
31	Difference Methods for One-Dimensional PDE. Graduate Texts in Physics, 2012, , 467-517.	0.2	0
32	An autonomous reference frame for relativistic positioning system. , 2015, , .		0
33	Matrix Methods. Graduate Texts in Physics, 2018, , 121-186.	0.2	0
34	Difference Methods for PDE in Several Dimensions. Graduate Texts in Physics, 2012, , 519-573.	0.2	0
35	Transformations of Functions and Signals. Graduate Texts in Physics, 2012, , 159-205.	0.2	0
36	Modeling and Analysis of Time Series. Graduate Texts in Physics, 2012, , 277-333.	0.2	0

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37	Statistical Analysis and Modeling of Data. Graduate Texts in Physics, 2012, , 207-275.	0.2	0
38	Spectral Methods for PDE. Graduate Texts in Physics, 2012, , 575-620.	0.2	0
39	Initial-Value Problems for ODE. Graduate Texts in Physics, 2012, , 335-400.	0.2	0
40	Solving Non-linear Equations. Graduate Texts in Physics, 2012, , 57-108.	0.2	0
41	Matrix Methods. Graduate Texts in Physics, 2012, , 109-157.	0.2	0
42	Modeling and Analysis of Time Series. Graduate Texts in Physics, 2018, , 325-390.	0.2	0