

Piergiulio Tempesta

List of Publications by Year in descending order

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55
papers

976
citations

430874

18
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454955

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58
all docs

58
docs citations

58
times ranked

357
citing authors

#	ARTICLE	IF	CITATIONS
1	Haantjes algebras of classical integrable systems. <i>Annali Di Matematica Pura Ed Applicata</i> , 2022, 201, 57-90.	1.0	4
2	Classical multiseparable Hamiltonian systems, superintegrability and Haantjes geometry. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 104, 106021.	3.3	3
3	Complexity-based permutation entropies: From deterministic time series to white noise. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 105, 106077.	3.3	10
4	Haantjes algebras and diagonalization. <i>Journal of Geometry and Physics</i> , 2021, 160, 103968.	1.4	6
5	A generalized permutation entropy for noisy dynamics and random processes. <i>Chaos</i> , 2021, 31, 013115.	2.5	13
6	New computable entanglement monotones from formal group theory. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	1
7	Universality Classes and Information-Theoretic Measures of Complexity via Group Entropies. <i>Scientific Reports</i> , 2020, 10, 5952.	3.3	11
8	Multivariate group entropies, super-exponentially growing complex systems, and functional equations. <i>Chaos</i> , 2020, 30, 123119.	2.5	7
9	A new class of entropic information measures, formal group theory and information geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180633.	2.1	12
10	Group Entropies: From Phase Space Geometry to Entropy Functionals via Group Theory. <i>Entropy</i> , 2018, 20, 804.	2.2	18
11	Statistical mechanics of exploding phase spaces: ontic open systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 375002.	2.1	23
12	A Foundational Approach to the Lie Theory for Fractional Order Partial Differential Equations. <i>Fractional Calculus and Applied Analysis</i> , 2017, 20, 212-231.	2.2	41
13	Uniqueness and characterization theorems for generalized entropies. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 123101.	2.3	26
14	Generalized isotropic Lipkinâ€“Meshkovâ€“Glick models: ground state entanglement and quantum entropies. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 033114.	2.3	20
15	Formal groups and Z -entropies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160143.	2.1	22
16	Groups, information theory, and Einstein's likelihood principle. <i>Physical Review E</i> , 2016, 93, 040101.	2.1	9
17	Beyond the Shannonâ€“Khinchin formulation: The composability axiom and the universal-group entropy. <i>Annals of Physics</i> , 2016, 365, 180-197.	2.8	32
18	A new entropy based on a group-theoretical structure. <i>Annals of Physics</i> , 2016, 366, 22-31.	2.8	13

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19	A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution. Information Sciences, 2016, 329, 1-19.	6.9	23
20	The Lazard formal group, universal congruences and special values of zeta functions. Transactions of the American Mathematical Society, 2015, 367, 7015-7028.	0.9	9
21	On the robustness of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si38.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Gaussian family. Annals of Physics, 2015, 363, 316-336.	2.8	8
22	A theorem on the existence of trace-form generalized entropies. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150165.	2.1	10
23	Singularity confinement for matrix discrete Painlevé equations. Nonlinearity, 2014, 27, 2321-2335.	1.4	7
24	A theorem on the existence of symmetries of fractional PDEs. Comptes Rendus Mathematique, 2014, 352, 219-222.	0.3	17
25	Bipartite and directed scale-free complex networks arising from zeta functions. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2493-2504.	3.3	2
26	Integrable maps from Galois differential algebras, Borel transforms and number sequences. Journal of Differential Equations, 2013, 255, 2981-2995.	2.2	3
27	A non-Boltzmannian behavior of the energy distribution for quasi-stationary regimes of the Fermi-Pasta-Ulam system. Annals of Physics, 2013, 333, 12-18.	2.8	3
28	Generalized Lenard chains, separation of variables, and superintegrability. Physical Review E, 2012, 85, 046602.	2.1	8
29	Non-Maxwellian behavior and quasistationary regimes near the modal solutions of the Fermi-Pasta-Ulam ² system. Physical Review E, 2012, 85, 031149.	2.1	9
30	Hyperfunctions, formal groups and generalized Lipschitz summation formulas. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1768-1777.	1.1	4
31	Multiple-scale analysis of dynamical systems on the lattice. Journal of Mathematical Analysis and Applications, 2011, 376, 247-258.	1.0	1
32	Finding frequent items in parallel. Concurrency Computation Practice and Experience, 2011, 23, 1774-1788.	2.2	28
33	On the high energy stability of the nonlinear modal solutions for the Fermi-Pasta-Ulam ² system. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03003.	2.3	3
34	Group entropies, correlation laws, and zeta functions. Physical Review E, 2011, 84, 021121.	2.1	86
35	Discretization of nonlinear evolution equations over associative function algebras. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 3237-3246.	1.1	3
36	Thermostatistics in the neighbourhood of the $\tilde{\epsilon}$ -mode solution for the Fermi-Pasta-Ulam ² system: from weak to strong chaos. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04021.	2.3	12

#	ARTICLE	IF	CITATIONS
37	From symmetries to number theory. <i>Physics of Atomic Nuclei</i> , 2009, 72, 866-874.	0.4	0
38	Symmetry reduction and superintegrable Hamiltonian systems. <i>Journal of Physics: Conference Series</i> , 2009, 175, 012013.	0.4	27
39	On Appell sequences of polynomials of Bernoulli and Euler type. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 341, 1295-1310.	1.0	34
40	Reduction of superintegrable systems: The anisotropic harmonic oscillator. <i>Physical Review E</i> , 2008, 78, 046608.	2.1	61
41	Formal groups, Bernoulli-type polynomials and L-series. <i>Comptes Rendus Mathematique</i> , 2007, 345, 303-306.	0.3	29
42	Lorentz and Galilei invariance on lattices. <i>Physical Review D</i> , 2004, 69, .	4.7	17
43	Umbral calculus, difference equations and the discrete Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2004, 45, 4077-4105.	1.1	46
44	Lie Symmetries and Weak Transversality. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2003, 137, 1609-1621.	0.9	0
45	Weak transversality and partially invariant solutions. <i>Journal of Mathematical Physics</i> , 2003, 44, 2704.	1.1	17
46	Quantum models related to fouled Hamiltonians of the harmonic oscillator. <i>Journal of Mathematical Physics</i> , 2002, 43, 3538-3553.	1.1	6
47	Temperature behaviour of vortices of a 3D thermoconducting viscous fluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 371-380.	2.6	3
48	Lie symmetries and superintegrability in quantum mechanics. <i>Physics of Atomic Nuclei</i> , 2002, 65, 1144-1148.	0.4	1
49	Superintegrable systems in quantum mechanics and classical Lie theory. <i>Journal of Mathematical Physics</i> , 2001, 42, 659.	1.1	46
50	Exact solvability of superintegrable systems. <i>Journal of Mathematical Physics</i> , 2001, 42, 4248-4257.	1.1	118
51	A group analysis of the 2D Navier-Stokes-Fourier equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 293, 421-434.	2.6	10
52	Recursion operators, higher-order symmetries and superintegrability in quantum mechanics. <i>European Physical Journal D</i> , 2001, 51, 392-399.	0.4	4
53	On the Relation between Lie Symmetries and Prolongation Structures of Nonlinear Field Equations: Non-Local Symmetries. <i>Progress of Theoretical Physics</i> , 2001, 105, 77-97.	2.0	22
54	Vortices and invariant surfaces generated by symmetries for the 3D Navier-Stokes equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 286, 79-108.	2.6	24

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55	Higher Haantjes Brackets and Integrability. Communications in Mathematical Physics, 0, , 1.	2.2	4