

Rongjia Tao

List of Publications by Year in descending order

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82
papers

2,550
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257450

24
h-index

189892

50
g-index

86
all docs

86
docs citations

86
times ranked

1199
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional structure of induced electrorheological solid. <i>Physical Review Letters</i> , 1991, 67, 398-401.	7.8	462
2	Laser diffraction determination of the crystalline structure of an electrorheological fluid. <i>Physical Review Letters</i> , 1992, 68, 2555-2558.	7.8	183
3	Reducing the Viscosity of Crude Oil by Pulsed Electric or Magnetic Field. <i>Energy & Fuels</i> , 2006, 20, 2046-2051.	5.1	160
4	Fractional quantization of Hall conductance. <i>Physical Review B</i> , 1983, 28, 1142-1144.	3.2	151
5	Simulation of structure formation in an electrorheological fluid. <i>Physical Review Letters</i> , 1994, 73, 205-208.	7.8	147
6	Super-strong magnetorheological fluids. <i>Journal of Physics Condensed Matter</i> , 2001, 13, R979-R999.	1.8	147
7	Gauge invariance and fractional quantum Hall effect. <i>Physical Review B</i> , 1984, 30, 1097-1098.	3.2	101
8	Ground state of electrorheological fluids from Monte Carlo simulations. <i>Physical Review A</i> , 1991, 44, R6181-R6184.	2.5	77
9	Impurity effect, degeneracy, and topological invariant in the quantum Hall effect. <i>Physical Review B</i> , 1986, 33, 3844-3850.	3.2	68
10	Reducing blood viscosity with magnetic fields. <i>Physical Review E</i> , 2011, 84, 011905.	2.1	66
11	Electric field induced solidification. <i>Applied Physics Letters</i> , 1989, 55, 1844-1846.	3.3	64
12	Reducing viscosity of paraffin base crude oil with electric field for oil production and transportation. <i>Fuel</i> , 2014, 118, 69-72.	6.4	59
13	Finite-element analysis of electrostatic interactions in electrorheological fluids. <i>Physical Review E</i> , 1995, 52, 2727-2735.	2.1	54
14	Electrorheology leads to healthier and tastier chocolate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7399-7402.	7.1	54
15	Electric-field-induced phase transition in electrorheological fluids. <i>Physical Review E</i> , 1993, 47, 423-426.	2.1	53
16	Flexible Fixturing with Phase-Change Materials. Part 1. Experimental Study on Magnetorheological Fluids. <i>International Journal of Advanced Manufacturing Technology</i> , 2000, 16, 822-829.	3.0	43
17	Electrorheology Leads to Efficient Combustion. <i>Energy & Fuels</i> , 2008, 22, 3785-3788.	5.1	41
18	Electronic density of levels in a disordered system. <i>Annals of Physics</i> , 1983, 145, 185-203.	2.8	37

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19	Diffusion-limited aggregation with surface tension. <i>Physical Review A</i> , 1988, 38, 1019-1026.	2.5	37
20	Fractional quantization of Hall conductance. II. <i>Physical Review B</i> , 1984, 29, 636-644.	3.2	36
21	Neutron scattering studies of crude oil viscosity reduction with electric field. <i>Fuel</i> , 2014, 134, 493-498.	6.4	36
22	Static shear stress of electrorheological fluids. <i>Physical Review E</i> , 1993, 48, 2744-2751.	2.1	35
23	Fractional statistics and fractional quantized Hall effect. <i>Physical Review B</i> , 1985, 31, 6859-6860.	3.2	33
24	Exact Solution for Diffusion in a Random Potential. <i>Physical Review Letters</i> , 1988, 61, 2405-2408.	7.8	26
25	Flexible Fixture Device with Magneto-Rheological Fluids. <i>Journal of Intelligent Material Systems and Structures</i> , 1999, 10, 690-694.	2.5	25
26	Ground-state energy of charged quantum fluids in two dimensions. <i>Physical Review B</i> , 1986, 34, 7123-7128.	3.2	24
27	Electrorheology Improves Transportation of Crude Oil. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1673-1676.	2.5	23
28	Electric-field induced low temperature superconducting granular balls. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 377, 357-361.	1.2	20
29	Three-dimensional dielectric photonic crystals of body-centered-tetragonal lattice structure. <i>Applied Physics Letters</i> , 2002, 80, 4702-4704.	3.3	19
30	Viscosity of a one-component polarizable fluid. <i>Physical Review E</i> , 1995, 52, 813-818.	2.1	16
31	Electrorheology for Efficient Energy Production and Conservation. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1667-1671.	2.5	16
32	Interactions between a rotating polarized sphere and a stationary one in an electric field. <i>Physical Review E</i> , 2005, 72, 041508.	2.1	13
33	Suppressing turbulence and enhancing liquid suspension flow in pipelines with electrorheology. <i>Physical Review E</i> , 2015, 91, 012304.	2.1	13
34	Path-integral approach to diffusion in random media. <i>Physical Review A</i> , 1991, 43, 5284-5288.	2.5	12
35	Comment on Laughlin's wavefunction for the quantised Hall effect. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, L53-L58.	1.5	11
36	Fractional statistics and the quantum Hall effect of two-dimensional fermion and boson systems. <i>Physical Review B</i> , 1986, 33, 2937-2940.	3.2	11

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37	Exact Solution for Diffusion in a Random Potential. <i>Physical Review Letters</i> , 1989, 63, 2695-2695.	7.8	11
38	MgB ₂ superconducting particles in a strong electric field. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 398, 78-84.	1.2	10
39	Structure and dynamics of dipolar fluids under strong shear. <i>Chemical Engineering Science</i> , 2006, 61, 2186-2190.	3.8	10
40	Structure of Polydisperse Inverse Ferrofluids: A Theory and Computer Simulation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 715-721.	2.6	10
41	Response to the Comments: Fuel Efficiency of Internal Combustion Engines. <i>Energy & Fuels</i> , 2009, 23, 3339-3342.	5.1	10
42	Second-harmonic generation of nonlinear optical crystals in vacuum-ultraviolet and x-ray regions. <i>Physical Review A</i> , 1995, 51, 706-711.	2.5	9
43	VISCOSITY REDUCTION IN LIQUID SUSPENSIONS BY ELECTRIC OR MAGNETIC FIELDS. <i>International Journal of Modern Physics B</i> , 2005, 19, 1283-1289.	2.0	9
44	Exact evaluation of Green's functions for a class of one-dimensional disordered systems. <i>Physical Review B</i> , 1983, 27, 935-944.	3.2	8
45	Coulomb energy and correlations of inversion-layer electrons in metal-oxide-semiconductor field-effect transistor devices. <i>Physical Review B</i> , 1988, 38, 10787-10790.	3.2	8
46	Testing and Modeling a Cone-Shaped Squeeze-Film Mode Electrorheological Damper. <i>Journal of Intelligent Material Systems and Structures</i> , 1999, 10, 748-752.	2.5	8
47	Reducing the Viscosity of Diesel Fuel with Electrorheological Effect. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1713-1716.	2.5	8
48	Radiative impedance of one-dimensional ballistic channels in FET devices. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, L1061-L1063.	1.5	7
49	Relaxation in DLA with surface tension. <i>Journal of Physics A</i> , 1990, 23, 3271-3278.	1.6	7
50	Deformation of an electrorheological chain under flow. <i>Journal of Applied Physics</i> , 1993, 74, 942-944.	2.5	6
51	Electrorheology Improves E85 Engine Efficiency and Performance. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1707-1711.	2.5	6
52	Ground state energy of the fractional quantised Hall system. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, L419-L423.	1.5	5
53	Completeness of the localised Landau orbits. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, L619-L625.	1.5	4
54	Structure and Dynamics of Dipolar Fluids Under Strong Shear. <i>International Journal of Modern Physics B</i> , 2003, 17, 3057-3063.	2.0	4

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55	Dynamic current oscillations in the quantum hall effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 117, 481-484.	2.1	3
56	Theory of the fractional quantum Hall effect. Journal of Physics C: Solid State Physics, 1986, 19, 173-180.	1.5	3
57	Multidimensional diffusion in random potentials. Physical Review A, 1989, 39, 3748-3750.	2.5	3
58	Optical constants of lithium triborate crystals in the 55–71 eV region. Physical Review B, 1995, 52, 13703-13706.	3.2	3
59	Spin statistics connection and selection rule in the quantum Hall effect. Journal of Physics C: Solid State Physics, 1985, 18, L1003-L1006.	1.5	2
60	The vicious neighbour problem. Journal of Physics A, 1987, 20, L299-L306.	1.6	2
61	Integral and fractional quantization of a class of quantum systems. Physical Review B, 1987, 35, 9853-9855.	3.2	2
62	Imaging analysis by means of fractional fourier transform. Journal of Shanghai University, 2001, 5, 292-294.	0.1	2
63	Path-Integral Approach to the Statistical Physics of One-Dimensional Random Systems. Journal of Statistical Physics, 2001, 103, 575-588.	1.2	2
64	Electrostatic separation of superconducting particles from a mixture. Applied Physics Letters, 2006, 88, 082503.	3.3	2
65	Eliminating the major tornado threat in Tornado Alley. International Journal of Modern Physics B, 2014, 28, 1450175.	2.0	2
66	Reply to Ziegler et al.: Electrorheological technology to make chocolate healthier and tastier. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6319-E6320.	7.1	2
67	Response to the comment by N d'Ambrumenil. Journal of Physics C: Solid State Physics, 1984, 17, L977-L978.	1.5	1
68	Quantum hall effect of two-dimensional interacting boson systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 116, 277-280.	2.1	1
69	Comment on "Experimental Determination of Fractional Charge $e/4$ for Quasiparticle Excitations in the Fractional Quantum Hall Effect". Physical Review Letters, 1988, 61, 2972-2972.	7.8	1
70	Fifth International Conference on Electrorheological Fluids, Magnetorheological Suspensions, and Associated Technology. Materials Technology, 1995, 10, 156-158.	3.0	1
71	Constitutive equations for electrorheological fluids based on molecular dynamics. Rheology Series, 1999, , 659-676.	0.1	1
72	Comment on "Spherical agglomeration of superconducting and normal microparticles with and without applied electric field". Physical Review B, 2013, 87, .	3.2	1

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73	Reply to Smith: Electrorheological technology reduces the chocolate viscosity and fat level. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5255-E5256.	7.1	1
74	Critical volume in diffusion through random media. Physical Review A, 1990, 42, 994-996.	2.5	0
75	Theory of the voltage biased Josephson model. Journal of Physics Condensed Matter, 1991, 3, 3505-3509.	1.8	0
76	International Conference on Electrorheological Fluids. Materials and Processing Report, 1992, 7, 5-7.	0.0	0
77	Fourth International Conference on Electrorheological Fluids. Materials Technology, 1993, 8, 259-261.	3.0	0
78	Falling ball experiments in a dilute electrorheological fluid. Journal of Applied Physics, 1994, 75, 193-196.	2.5	0
79	Theorists succumb to Tao. Physics World, 2005, 18, 24-25.	0.0	0
80	INTERACTIONS BETWEEN TWO ROTATING POLARIZED SPHERES. International Journal of Modern Physics B, 2005, 19, 1215-1221.	2.0	0
81	Special issue“12th International Conference on Electrorheological Fluids and Magnetorheological Suspensions” part 2. Journal of Intelligent Material Systems and Structures, 2012, 23, 947-948.	2.5	0
82	Can we eliminate major tornadoes in Tornado Alley? “ Response to the Comments. International Journal of Modern Physics B, 2014, 28, 1475005.	2.0	0