Rongjia Tao

List of Publications by Year
in descending order

82 papers	2,550 citations	257450 24 h-index	189892 50 g-index
86 all docs	86 docs citations	86 times ranked	1199 citing authors

#	Article	IF	Citations
1	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
2	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
3	Electrorheology leads to healthier and tastier chocolate. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7399-7402.	7.1	54
4	Suppressing turbulence and enhancing liquid suspension flow in pipelines with electrorheology. Physical Review E, 2015, 91, 012304.	2.1	13
5	Can we eliminate major tornadoes in Tornado Alley? â€" Response to the Comments. International Journal of Modern Physics B, 2014, 28, 1475005.	2.0	0
6	Reducing viscosity of paraffin base crude oil with electric field for oil production and transportation. Fuel, 2014, 118, 69-72.	6.4	59
7	Eliminating the major tornado threat in Tornado Alley. International Journal of Modern Physics B, 2014, 28, 1450175.	2.0	2
8	Neutron scattering studies of crude oil viscosity reduction with electric field. Fuel, 2014, 134, 493-498.	6.4	36
9	Comment on â€œSpherical agglomeration of superconducting and normal microparticles with and without applied electric fieldâ€• Physical Review B, 2013, 87, .	3.2	1
10	Special issueâ€"12th International Conference on Electrorheological Fluids and Magnetorheological Suspensionsâ€"part 2. Journal of Intelligent Material Systems and Structures, 2012, 23, 947-948.	2.5	0
11	Electrorheology for Efficient Energy Production and Conservation. Journal of Intelligent Material Systems and Structures, 2011, 22, 1667-1671.	2.5	16
12	Reducing blood viscosity with magnetic fields. Physical Review E, 2011, 84, 011905.	2.1	66
13	Reducing the Viscosity of Diesel Fuel with Electrorheological Effect. Journal of Intelligent Material Systems and Structures, 2011, 22, 1713-1716.	2.5	8
14	Electrorheology Improves Transportation of Crude Oil. Journal of Intelligent Material Systems and Structures, 2011, 22, 1673-1676.	2.5	23
15	Electrorheology Improves E85 Engine Efficiency and Performance. Journal of Intelligent Material Systems and Structures, 2011, 22, 1707-1711.	2.5	6
16	Response to the Comments: Fuel Efficiency of Internal Combustion Engines. Energy & Fuels, 2009, 23, 3339-3342.	5.1	10
17	Electrorheology Leads to Efficient Combustion. Energy & Fuels, 2008, 22, 3785-3788.	5.1	41
18	Structure of Polydisperse Inverse Ferrofluids:Â Theory and Computer Simulation. Journal of Physical Chemistry B, 2008, 112, 715-721.	2.6	10

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19	Reducing the Viscosity of Crude Oil by Pulsed Electric or Magnetic Field. Energy & Fuels, 2006, 20, 2046-2051.	5.1	160
20	Structure and dynamics of dipolar fluids under strong shear. Chemical Engineering Science, 2006, 61, 2186-2190.	3.8	10
21	Electrostatic separation of superconducting particles from a mixture. Applied Physics Letters, 2006, 88, 082503.	3.3	2
22	Theorists succumb to Tao. Physics World, 2005, 18, 24-25.	0.0	0
23	Interactions between a rotating polarized sphere and a stationary one in an electric field. Physical Review E, 2005, 72, 041508.	2.1	13
24	INTERACTIONS BETWEEN TWO ROTATING POLARIZED SPHERES. International Journal of Modern Physics B, 2005, 19, 1215-1221.	2.0	0
25	VISCOSITY REDUCTION IN LIQUID SUSPENSIONS BY ELECTRIC OR MAGNETIC FIELDS. International Journal of Modern Physics B, 2005, 19, 1283-1289.	2.0	9
26	MgB2 superconducting particles in a strong electric field. Physica C: Superconductivity and Its Applications, 2003, 398, 78-84.	1.2	10
27	Structure and Dynamics of Dipolar Fluids Under Strong Shear. International Journal of Modern Physics B, 2003, 17, 3057-3063.	2.0	4
28	Three-dimensional dielectric photonic crystals of body-centered-tetragonal lattice structure. Applied Physics Letters, 2002, 80, 4702-4704.	3.3	19
29	Electric-field induced low temperature superconducting granular balls. Physica C: Superconductivity and Its Applications, 2002, 377, 357-361.	1.2	20
30	Imaging analysis by means of fractional fourier transform. Journal of Shanghai University, 2001, 5, 292-294.	0.1	2
31	Path-Integral Approach to the Statistical Physics of One-Dimensional Random Systems. Journal of Statistical Physics, 2001, 103, 575-588.	1.2	2
32	Super-strong magnetorheological fluids. Journal of Physics Condensed Matter, 2001, 13, R979-R999.	1.8	147
33	Flexible Fixturing with Phase-Change Materials. Part 1. Experimental Study on Magnetorheological Fluids. International Journal of Advanced Manufacturing Technology, 2000, 16, 822-829.	3.0	43
34	Testing and Modeling a Cone-Shaped Squeeze-Film Mode Electrorheological Damper. Journal of Intelligent Material Systems and Structures, 1999, 10, 748-752.	2.5	8
35	Flexible Fixture Device with Magneto-Rheological Fluids. Journal of Intelligent Material Systems and Structures, 1999, 10, 690-694.	2.5	25
36	Constitutive equations for electrorheological fluids based on molecular dynamics. Rheology Series, 1999, , 659-676.	0.1	1

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37	Fifth International Conference on Electrorheological Fluids, Magnetorheological Suspensions, and Associated Technology. Materials Technology, 1995, 10, 156-158.	3.0	1
38	Finite-element analysis of electrostatic interactions in electrorheological fluids. Physical Review E, 1995, 52, 2727-2735.	2.1	54
39	Viscosity of a one-component polarizable fluid. Physical Review E, 1995, 52, 813-818.	2.1	16
40	Optical constants of lithium triborate crystals in the 55â€“71 eV region. Physical Review B, 1995, 52, 13703-13706.	3.2	3
41	Second-harmonic generation of nonlinear optical crystals in vacuum-ultraviolet and x-ray regions. Physical Review A, 1995, 51, 706-711.	2.5	9
42	Falling ball experiments in a dilute electrorheological fluid. Journal of Applied Physics, 1994, 75, 193-196.	2.5	0
43	Simulation of structure formation in an electrorheological fluid. Physical Review Letters, 1994, 73, 205-208.	7.8	147
44	Electric-field-induced phase transition in electrorheological fluids. Physical Review E, 1993, 47, 423-426.	2.1	53
45	Static shear stress of electrorheological fluids. Physical Review E, 1993, 48, 2744-2751.	2.1	35
46	Deformation of an electrorheological chain under flow. Journal of Applied Physics, 1993, 74, 942-944.	2.5	6
47	Fourth International Conference on Electrorheological Fluids. Materials Technology, 1993, 8, 259-261.	3.0	0
48	Laser diffraction determination of the crystalline structure of an electrorheological fluid. Physical Review Letters, 1992, 68, 2555-2558.	7.8	183
49	International Conference on Electrorheological Fluids. Materials and Processing Report, 1992, 7, 5-7.	0.0	0
50	Three-dimensional structure of induced electrorheological solid. Physical Review Letters, 1991, 67, 398-401.	7.8	462
51	Theory of the voltage biased Josephson model. Journal of Physics Condensed Matter, 1991, 3, 3505-3509.	1.8	0
52	Path-integral approach to diffusion in random media. Physical Review A, 1991, 43, 5284-5288.	2.5	12
53	Ground state of electrorheological fluids from Monte Carlo simulations. Physical Review A, 1991, 44, R6181-R6184.	2.5	77
54	Relaxation in DLA with surface tension. Journal of Physics A, 1990, 23, 3271-3278.	1.6	7

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55	Critical volume in diffusion through random media. Physical Review A, 1990, 42, 994-996.	2.5	0
56	Multidimensional diffusion in random potentials. Physical Review A, 1989, 39, 3748-3750.	2.5	3
57	Exact Solution for Diffusion in a Random Potential. Physical Review Letters, 1989, 63, 2695-2695.	7.8	11
58	Electric field induced solidification. Applied Physics Letters, 1989, 55, 1844-1846.	3.3	64
59	Diffusion-limited aggregation with surface tension. Physical Review A, 1988, 38, 1019-1026.	2.5	37
60	Exact Solution for Diffusion in a Random Potential. Physical Review Letters, 1988, 61, 2405-2408.	7.8	26
61	Coulomb energy and correlations of inversion-layer electrons in metal-oxide-semiconductor field-effect transistor devices. Physical Review B, 1988, 38, 10787-10790.	3.2	8
62	Comment on "Experimental Determination of Fractional Chargeeqfor Quasiparticle Excitations in the Fractional Quantum Hall Effect". Physical Review Letters, 1988, 61, 2972-2972.	7.8	1
63	Radiative impedance of one-dimensional ballistic channels in FET devices. Journal of Physics C: Solid State Physics, 1988, 21, L1061-L1063.	1.5	7
64	The vicious neighbour problem. Journal of Physics A, 1987, 20, L299-L306.	1.6	2
65	Integral and fractional quantization of a class of quantum systems. Physical Review B, 1987, 35, 9853-9855.	3.2	2
66	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
67	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
68	Completeness of the localised Landau orbits. Journal of Physics C: Solid State Physics, 1986, 19, L619-L625.	1.5	4
69	Theory of the fractional quantum Hall effect. Journal of Physics C: Solid State Physics, 1986, 19, 173-180.	1.5	3
70	Fractional statistics and the quantum Hall effect of two-dimensional fermion and boson systems. Physical Review B, 1986, 33, 2937-2940.	3.2	11
71	Ground-state energy of charged quantum fluids in two dimensions. Physical Review B, 1986, 34, 7123-7128.	3.2	24
72	Impurity effect, degeneracy, and topological invariant in the quantum Hall effect. Physical Review B, 1986, 33, 3844-3850.	3.2	68

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73	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
74	Fractional statistics and fractional quantized Hall effect. Physical Review B, 1985, 31, 6859-6860.	3.2	33
75	Ground state energy of the fractional quantised Hall system. Journal of Physics C: Solid State Physics, 1984, 17, L419-L423.	1.5	5
76	Comment on Laughlin's wavefunction for the quantised Hall effect. Journal of Physics C: Solid State Physics, 1984, 17, L53-L58.	1.5	11
77	Response to the comment by N d'Ambrumenil. Journal of Physics C: Solid State Physics, 1984, 17, L977-L978.	1.5	1
78	Fractional quantization of Hall conductance. II. Physical Review B, 1984, 29, 636-644.	3.2	36
79	Gauge invariance and fractional quantum Hall effect. Physical Review B, 1984, 30, 1097-1098.	3.2	101
80	Electronic density of levels in a disordered system. Annals of Physics, 1983, 145, 185-203.	2.8	37
81	Fractional quantization of Hall conductance. Physical Review B, 1983, 28, 1142-1144.	3.2	151
82	Exact evaluation of Green's functions for a class of one-dimensional disordered systems. Physical Review B, 1983, 27, 935-944.	3.2	8