Jiang-Xing Chen

List of Publications by Year
in descending order

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54	961	394421	454955
papers	citations	19 h-index	30 g-index

56	56	56	568
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase-field-based lattice Boltzmann modeling of large-density-ratio two-phase flows. Physical Review E, 2018, 97, 033309.	2.1	112
2	Axisymmetric lattice Boltzmann model for multiphase flows with large density ratio. International Journal of Heat and Mass Transfer, 2019, 130, 1189-1205.	4.8	74
3	Drift of spiral waves controlled by a polarized electric field. Journal of Chemical Physics, 2006, 124, 014505.	3.0	57
4	Chemically Propelled Motors Navigate Chemical Patterns. Advanced Science, 2018, 5, 1800028.	11.2	53
5	Lattice Boltzmann modeling of wall-bounded ternary fluid flows. Applied Mathematical Modelling, 2019, 73, 487-513.	4.2	50
6	Synthetic Nanomotors: Working Together through Chemistry. Accounts of Chemical Research, 2018, 51, 2355-2364.	15.6	49
7	Separation of nanoparticles via surfing on chemical wavefronts. Nanoscale, 2020, 12, 12275-12280.	5.6	32
8	Interaction of a Chemically Propelled Nanomotor with a Chemical Wave. Angewandte Chemie - International Edition, 2011, 50, 10165-10169.	13.8	29
9	Control of turbulence in heterogeneous excitable media. Physical Review E, 2012, 85, 026213.	2.1	29
10	Interaction of excitable waves emitted from two defects by pulsed electric fields. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 202-209.	3.3	28
11	Termination of pinned spirals by local stimuli. Europhysics Letters, 2016, 113, 38004.	2.0	25
12	Control of spiral breakup by an alternating advective field. Journal of Chemical Physics, 2006, 125, 204503.	3.0	24
13	Liberation of a pinned spiral wave by a rotating electric pulse. Europhysics Letters, 2014, 107, 38001.	2.0	24
14	Chemotactic dynamics of catalytic dimer nanomotors. Soft Matter, 2016, 12, 1876-1883.	2.7	24
15	Dynamics of scroll waves with time-delay propagation in excitable media. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 331-337.	3.3	24
16	Suppression of spirals and turbulence in inhomogeneous excitable media. Physical Review E, 2009, 79, 066209.	2.1	23
17	Synchronization of a spiral by a circularly polarized electric field in reaction-diffusion systems. Journal of Chemical Physics, 2009, 130, 124510.	3.0	20
18	Emitting waves from heterogeneity by a rotating electric field. Chaos, 2013, 23, 033141.	2.5	20

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19	Dynamics of two-dimensional colloids on a disordered substrate. Physical Review E, 2004, 69, 041403.	2.1	19
20	Mechanical properties and bending strain effect on Cuâ€“Ni sheathed MgB2 superconducting tape. Physica C: Superconductivity and Its Applications, 2004, 406, 53-57.	1.2	19
21	Mesoscopic dynamics of diffusion-influenced enzyme kinetics. Journal of Chemical Physics, 2011, 134, 044503.	3.0	19
22	Influences of periodic mechanical deformation on pinned spiral waves. Chaos, 2014, 24, 033103.	2.5	19
23	Influences of Periodic Mechanical Deformation on Spiral Breakup in Excitable Media. Journal of Physical Chemistry B, 2009, 113, 849-853.	2.6	16
24	Spiral breakup and consequent patterns induced by strong polarized advective field. Europhysics Letters, 2008, 84, 34002.	2.0	14
25	Dynamical phase of driven colloidal systems with short-range attraction and long-range repulsion. Journal of Chemical Physics, 2011, 135, 094504.	3.0	14
26	Transition from Turing stripe patterns to hexagonal patterns induced by polarized electric fields. Journal of Chemical Physics, 2007, 127, 154708.	3.0	13
27	Dynamics of spiral waves driven by a rotating electric field. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 60-66.	3.3	12
28	The dynamics and self-assembly of chemically self-propelled sphere dimers. Nanoscale, 2021, 13, 1055-1060.	5.6	12
29	Numerical study on the dynamics of driven disordered colloids. Physical Review B, 2003, 68, .	3.2	11
30	GROWTH MECHANISM OF IRON FILMS ON SILICONE OIL SURFACES PREPARED BY SPUTTERING METHOD. Surface Review and Letters, 2006, 13, 779-784.	1.1	11
31	Translocation of a forced polymer chain through a crowded channel. Europhysics Letters, 2014, 106, 18003.	2.0	11
32	Collective dynamics of self-propelled nanomotors in chemically oscillating media. Europhysics Letters, 2019, 125, 26002.	2.0	9
33	Pattern formation under residual compressive stress in free sustained aluminum films. Thin Solid Films, 2005, 491, 311-316.	1.8	8
34	Simulating bistable biochemical systems by means of reactive multiparticle collision dynamics. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2505-2512.	3.3	7
35	Pair Interaction of Catalytical Sphere Dimers in Chemically Active Media. Micromachines, 2018, 9, 35.	2.9	7
36	FREE MOTION OF THIN SOLID FILM ON LIQUID SURFACE AS A ROUTE TOWARDS SELF-ORGANIZATION. Surface Review and Letters, 2005, 12, 753-758.	1.1	6

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37	Noise-induced anomalous diffusion over a periodically modulated saddle. Physical Review E, 2010, 81, 031123.	2.1	4
38	RESONANT DRIFT OF SPIRAL WAVES INDUCED BY MECHANICAL DEFORMATION. International Journal of Modern Physics B, 2010, 24, 5733-5741.	2.0	4
39	Spiral Wave Generation in a Vortex Electric Field. Chinese Physics Letters, 2011, 28, 100505.	3.3	4
40	Design and application of feedback-sustained target waves in excitable medium. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 75-80.	3.3	4
41	Non-equilibrium dynamics of colloids on disordered substrates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 146-151.	2.1	3
42	Controlling chaos by developing spiral wave from heterogeneity in excitable medium. Open Physics, 2009, 7, .	1.7	3
43	Mode-Locking Behaviour in Driven Colloids with Random Pinning. Chinese Physics Letters, 2007, 24, 1095-1098.	3.3	2
44	Interaction of Wave Trains with Defects. Communications in Theoretical Physics, 2019, 71, 334.	2.5	2
45	Transport of nanodimers through chemical microchip. Communications in Theoretical Physics, 2020, 72, 015601.	2.5	2
46	Dynamic Phase Transition of Two-Dimensional Disordered Colloids. Chinese Physics Letters, 2003, 20, 2262-2264.	3.3	1
47	Dynamic phase diagram of driven colloid systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 325, 294-300.	2.1	1
48	Interaction of Pair Particles Mediated by Signal Molecules. Chinese Physics Letters, 2016, 33, 018701.	3.3	1
49	Dynamics of Spiral Waves Induced by Periodic Mechanical Deformation with Phase Difference. Communications in Theoretical Physics, 2018, 70, 749.	2.5	1
50	Dynamics of Scroll Wave in a Three-Dimensional System with Changing Gradient. PLoS ONE, 2016, 11, e0152175.	2.5	1
51	The dynamics of chemically propelled dimer motors on a pinning substrate. Physical Chemistry Chemical Physics, 2022, 24, 11986-11991.	2.8	1
52	Motion of spiral waves induced by local pacing. Open Physics, 2008, 6, .	1.7	0
53	Dynamics of Nano-Chain Diffusing in Porous Media. Chinese Physics Letters, 2015, 32, 068701.	3.3	0
54	Design and mesoscopic description of self-propelled nanomotor in complex environment. Chinese Science Bulletin, 2017, 62, 209-222.	0.7	0