Jiang-Xing Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2787485/publications.pdf

Version: 2024-02-01

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	The dynamics of chemically propelled dimer motors on a pinning substrate. Physical Chemistry Chemical Physics, 2022, 24, 11986-11991.	2.8	1
2	The dynamics and self-assembly of chemically self-propelled sphere dimers. Nanoscale, 2021, 13, 1055-1060.	5.6	12
3	Separation of nanoparticles via surfing on chemical wavefronts. Nanoscale, 2020, 12, 12275-12280.	5.6	32
4	Transport of nanodimers through chemical microchip. Communications in Theoretical Physics, 2020, 72, 015601.	2.5	2
5	Lattice Boltzmann modeling of wall-bounded ternary fluid flows. Applied Mathematical Modelling, 2019, 73, 487-513.	4.2	50
6	Collective dynamics of self-propelled nanomotors in chemically oscillating media. Europhysics Letters, 2019, 125, 26002.	2.0	9
7	Interaction of Wave Trains with Defects. Communications in Theoretical Physics, 2019, 71, 334.	2.5	2
8	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
9	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
10	Phase-field-based lattice Boltzmann modeling of large-density-ratio two-phase flows. Physical Review E, 2018, 97, 033309.	2.1	112
11	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
12	Dynamics of Spiral Waves Induced by Periodic Mechanical Deformation with Phase Difference. Communications in Theoretical Physics, 2018, 70, 749.	2.5	1
13	Synthetic Nanomotors: Working Together through Chemistry. Accounts of Chemical Research, 2018, 51, 2355-2364.	15.6	49
14	Chemically Propelled Motors Navigate Chemical Patterns. Advanced Science, 2018, 5, 1800028.	11.2	53
15	Pair Interaction of Catalytical Sphere Dimers in Chemically Active Media. Micromachines, 2018, 9, 35.	2.9	7
16	Design and mesoscopic description of self-propelled nanomotor in complex environment. Chinese Science Bulletin, 2017, 62, 209-222.	0.7	0
17	Interaction of Pair Particles Mediated by Signal Molecules. Chinese Physics Letters, 2016, 33, 018701.	3.3	1
18	Termination of pinned spirals by local stimuli. Europhysics Letters, 2016, 113, 38004.	2.0	25

#	Article	IF	Citations
19	Chemotactic dynamics of catalytic dimer nanomotors. Soft Matter, 2016, 12, 1876-1883.	2.7	24
20	Dynamics of Scroll Wave in a Three-Dimensional System with Changing Gradient. PLoS ONE, 2016, 11, e0152175.	2.5	1
21	Dynamics of Nano-Chain Diffusing in Porous Media. Chinese Physics Letters, 2015, 32, 068701.	3.3	0
22	Translocation of a forced polymer chain through a crowded channel. Europhysics Letters, 2014, 106, 18003.	2.0	11
23	Liberation of a pinned spiral wave by a rotating electric pulse. Europhysics Letters, 2014, 107, 38001.	2.0	24
24	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
25	Influences of periodic mechanical deformation on pinned spiral waves. Chaos, 2014, 24, 033103.	2.5	19
26	Dynamics of spiral waves driven by a rotating electric field. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 60-66.	3.3	12
27	Emitting waves from heterogeneity by a rotating electric field. Chaos, 2013, 23, 033141.	2.5	20
28	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
29	Control of turbulence in heterogeneous excitable media. Physical Review E, 2012, 85, 026213.	2.1	29
30	Dynamical phase of driven colloidal systems with short-range attraction and long-range repulsion. Journal of Chemical Physics, 2011, 135, 094504.	3.0	14
31	Interaction of a Chemically Propelled Nanomotor with a Chemical Wave. Angewandte Chemie - International Edition, 2011, 50, 10165-10169.	13.8	29
32	Spiral Wave Generation in a Vortex Electric Field. Chinese Physics Letters, 2011, 28, 100505.	3.3	4
33	Mesoscopic dynamics of diffusion-influenced enzyme kinetics. Journal of Chemical Physics, 2011, 134, 044503.	3.0	19
34	Noise-induced anomalous diffusion over a periodically modulated saddle. Physical Review E, 2010, 81, 031123.	2.1	4
35	RESONANT DRIFT OF SPIRAL WAVES INDUCED BY MECHANICAL DEFORMATION. International Journal of Modern Physics B, 2010, 24, 5733-5741.	2.0	4
36	Suppression of spirals and turbulence in inhomogeneous excitable media. Physical Review E, 2009, 79, 066209.	2.1	23

#	Article	IF	Citations
37	Synchronization of a spiral by a circularly polarized electric field in reaction-diffusion systems. Journal of Chemical Physics, 2009, 130, 124510.	3.0	20
38	Controlling chaos by developing spiral wave from heterogeneity in excitable medium. Open Physics, 2009, 7, .	1.7	3
39	Influences of Periodic Mechanical Deformation on Spiral Breakup in Excitable Media. Journal of Physical Chemistry B, 2009, 113, 849-853.	2.6	16
40	Motion of spiral waves induced by local pacing. Open Physics, 2008, 6, .	1.7	0
41	Spiral breakup and consequent patterns induced by strong polarized advective field. Europhysics Letters, 2008, 84, 34002.	2.0	14
42	Mode-Locking Behaviour in Driven Colloids with Random Pinning. Chinese Physics Letters, 2007, 24, 1095-1098.	3.3	2
43	Transition from Turing stripe patterns to hexagonal patterns induced by polarized electric fields. Journal of Chemical Physics, 2007, 127, 154708.	3.0	13
44	Control of spiral breakup by an alternating advective field. Journal of Chemical Physics, 2006, 125, 204503.	3.0	24
45	Drift of spiral waves controlled by a polarized electric field. Journal of Chemical Physics, 2006, 124, 014505.	3.0	57
46	GROWTH MECHANISM OF IRON FILMS ON SILICONE OIL SURFACES PREPARED BY SPUTTERING METHOD. Surface Review and Letters, 2006, 13, 779-784.	1.1	11
47	Pattern formation under residual compressive stress in free sustained aluminum films. Thin Solid Films, 2005, 491, 311-316.	1.8	8
48	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
49	Dynamics of two-dimensional colloids on a disordered substrate. Physical Review E, 2004, 69, 041403.	2.1	19
50	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
51	Dynamic phase diagram of driven colloid systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 325, 294-300.	2.1	1
52	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
53	Numerical study on the dynamics of driven disordered colloids. Physical Review B, 2003, 68, .	3.2	11
54	Dynamic Phase Transition of Two-Dimensional Disordered Colloids. Chinese Physics Letters, 2003, 20, 2262-2264.	3.3	1