Reinhard Richter

List of Publications by Year in descending order

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REINHARD RICHTER

#	Article	IF	CITATIONS
1	Unknotting of quasi-two-dimensional ferrogranular networks by in-plane homogeneous magnetic fields. Journal of Magnetism and Magnetic Materials, 2020, 499, 166182.	2.3	4
2	Graphical Magnetogranulometry of EMG909. Journal of Magnetism and Magnetic Materials, 2020, 508, 166868.	2.3	3
3	Calming the waves, not the storm: measuring the Kelvin–Helmholtz instability in a tangential magnetic field. Journal of Fluid Mechanics, 2020, 903, .	3.4	2
4	Measuring the Kelvin-Helmholtz instability, stabilized by a tangential magnetic field. Journal of Magnetism and Magnetic Materials, 2020, 505, 166693.	2.3	6
5	Measuring magnetic moments of polydisperse ferrofluids utilizing the inverse Langevin function. Physical Review B, 2019, 100, .	3.2	5
6	Coarsening dynamics of ferromagnetic granular networks—experimental results and simulations. Soft Matter, 2018, 14, 1001-1015.	2.7	9
7	Precise Assembly of Genetically Functionalized Magnetosomes and Tobacco Mosaic Virus Particles Generates a Magnetic Biocomposite. ACS Applied Materials & Interfaces, 2018, 10, 37898-37910.	8.0	10
8	Pace and patterns of magnetic swimmers in a billiard pool. Physical Review E, 2017, 96, 012205.	2.1	1
9	Retarding the growth of the Rosensweig instability unveils a new scaling regime. Physical Review E, 2016, 93, 043106.	2.1	4
10	Homoclinic snaking near the surface instability of a polarisable fluid. Journal of Fluid Mechanics, 2015, 783, 283-305.	3.4	28
11	Comment on "Self-assembly of magnetic balls: From chains to tubesâ€: Physical Review E, 2015, 91, 057201.	2.1	11
12	Unravelling the Rayleigh–Taylor instability by stabilization. Journal of Fluid Mechanics, 2013, 732, .	3.4	7
13	Spherical sample holders to improve the susceptibility measurement of superparamagnetic materials. Review of Scientific Instruments, 2012, 83, 045106.	1.3	10
14	Mag(net)ic Liquid Mountains. Europhysics News, 2011, 42, 17-19.	0.3	6
15	Towards softer thermo-reversible magnetogels. Physics Procedia, 2010, 9, 224-228.	1.2	4
16	The growth of localized states on the surface of magnetic fluids. Physics Procedia, 2010, 9, 199-204.	1.2	2
17	From phase space representation to amplitude equations in a pattern-forming experiment. New Journal of Physics, 2010, 12, 093037.	2.9	9
18	Magnetic traveling-stripe forcing: Enhanced transport in the advent of the Rosensweig instability. Physical Review E, 2010, 82, 036304.	2.1	4

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19	Thermoreversible Hydroferrogels with Tunable Mechanical Properties Utilizing Block Copolymer Mesophases As Template. Langmuir, 2010, 26, 19181-19190.	3.5	26
20	The normal field instability under side-wall effects: comparison of experiments and computations. New Journal of Physics, 2009, 11, 053016.	2.9	7
21	Surface instabilities and magnetic soft matter. Soft Matter, 2009, 5, 2093.	2.7	18
22	Alignment of Tellurium Nanorods <i>via</i> a Magnetizationâ^'Alignmentâ^' Demagnetization ("MADâ€) Process Assisted by an External Magnetic Field. ACS Nano, 2009, 3, 1441-1450.	14.6	48
23	Surface Instabilities of Ferrofluids. Lecture Notes in Physics, 2009, , 157-247.	0.7	19
24	Rolling ferrofluid drop on the surface of a liquid. New Journal of Physics, 2008, 10, 063029.	2.9	15
25	Measuring the deformation of a ferrogel sphere in a homogeneous magnetic field. Journal of Chemical Physics, 2008, 128, 164709.	3.0	54
26	Response of a ferrofluid to traveling-stripe forcing. Journal of Physics Condensed Matter, 2008, 20, 204109.	1.8	5
27	Growth of surface undulations at the Rosensweig instability. Physical Review E, 2007, 76, 066301.	2.1	25
28	Reorientation of a hexagonal pattern under broken symmetry: The hexagon flip. Physical Review E, 2007, 76, 055301.	2.1	9
29	The surface topography of a magnetic fluid: a quantitative comparison between experiment and numerical simulation. Journal of Fluid Mechanics, 2007, 571, 455-474.	3.4	66
30	Linear and nonlinear approach to the Rosensweig instability. GAMM Mitteilungen, 2007, 30, 171-184.	5.5	5
31	Maximal growth rate at the Rosensweig instability: theory, experiment, and numerics. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 4140025-4140026.	0.2	0
32	Pumping fluid by magnetic surface stress. New Journal of Physics, 2006, 8, 18-18.	2.9	13
33	Viscoelasticity of mono- and polydisperse inverse ferrofluids. Journal of Chemical Physics, 2006, 125, 084907.	3.0	26
34	Via hexagons to squares in ferrofluids: experiments on hysteretic surface transformations under variation of the normal magnetic field. Journal of Physics Condensed Matter, 2006, 18, S2643-S2656.	1.8	19
35	Hexagons become the secondary pattern if symmetry is broken. Physical Review E, 2005, 71, 055202.	2.1	15
36	Two-Dimensional Solitons on the Surface of Magnetic Fluids. Physical Review Letters, 2005, 94, 184503.	7.8	125

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37	Fluid pumped by magnetic stress. Applied Physics Letters, 2005, 86, 024102.	3.3	13
38	Formation of a drop: viscosity dependence of three flow regimes. New Journal of Physics, 2003, 5, 59-59.	2.9	40
39	Critical exponents of directed percolation measured in spatiotemporal intermittency. Physical Review E, 2003, 67, 036209.	2.1	55
40	Oscillatory decay at the Rosensweig instability: Experiment and theory. Physical Review E, 2003, 68, 036220.	2.1	13
41	Glasslike relaxation of labyrinthine domain patterns. Physical Review E, 2002, 65, 031504.	2.1	11
42	Measuring surface deformations in magnetic fluid by radioscopy. Review of Scientific Instruments, 2001, 72, 1729.	1.3	33
43	Transition from Symmetric to Asymmetric Scaling Function before Drop Pinch-Off. Physical Review Letters, 2001, 87, 084501.	7.8	61
44	Wave number of maximal growth in viscous magnetic fluids of arbitrary depth. Physical Review E, 2000, 61, 5528-5539.	2.1	25
45	Experiments on the breakup of a liquid bridge of magnetic fluid. Journal of Magnetism and Magnetic Materials, 1999, 201, 324-327.	2.3	13
46	Standing twin peaks due to non–monotonic dispersion of Faraday waves. Journal of Magnetism and Magnetic Materials, 1999, 201, 303-305.	2.3	7
47	Experiments on negative and positive magnetoviscosity in an alternating magnetic field. Physical Review E, 1998, 58, 6287-6293.	2.1	61
48	On the form invariance of phase length distributions of type-l intermittency observed in a low-temperature semiconductor experiment. Europhysics Letters, 1996, 36, 675-680.	2.0	3
49	Infrared irradiation induced phase transition during low-temperature impact ionization breakdown in p-type germanium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 198, 134-138.	2.1	0
50	Time-Averaged Quantity of a Low-Temperature Semiconductor Experiment Reflects Scaling Behavior of Saddle-Node Bifurcation to Chaos. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 838-842.	1.5	1
51	The †Triptych Fractal' -A New Feature of the Logistic M ap. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 871-873.	1.5	1
52	Notizen: New Concept of a Scanning Laser Microscope Integrated Inside an Encapsulated Cryogenic Sample Stage. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 642-644.	1.5	0
53	Prerecorded history of a system as an experimental tool to control chaos. Physical Review E, 1994, 50, 262-268.	2.1	51
54	Type-I intermittency in semiconductor breakdown: An experimental confirmation. Physical Review B, 1994, 49, 8738-8746.	3.2	6

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55	Symbolic-dynamical analysis of a transition between different limit cycles observed in a semiconductor experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 177, 148-152.	2.1	1
56	Type-I intermittency in semiconductor breakdown - experimental consequences of bifurcations from a toroidal attractor. Physica D: Nonlinear Phenomena, 1993, 66, 187-194.	2.8	1
57	Logarithmic frequency scaling of semiconductor oscillations caused by a modified saddle-node bifurcation on a limit cycle. European Physical Journal B, 1993, 91, 527-529.	1.5	5
58	STOCHASTIC RESONANCE AT THE ONSET OF FINITE- AMPLITUDE OSCILLATIONS IN SEMICONDUCTOR BREAKDOWN. Fractals, 1993, 01, 1068-1074.	3.7	0
59	Stochastic Resonance in Experiment. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 633-635.	1.5	4
60	Experimental realization of mode locking during intrinsic quasiperiodicity inp-type germanium. Physical Review B, 1993, 48, 12603-12608.	3.2	2
61	Spatial coherence of nonlinear dynamics in a semiconductor experiment. Physical Review B, 1993, 47, 115-124.	3.2	4
62	Reaction Time to Voltage Pulses Applied to Semiconductor Impact Ionization Breakdown. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 639-640.	1.5	4
63	Anomalous Frequency Scaling of a Saddle-Node Bifurcation on a Limit Cycle Disclosed in a Semiconductor Experiment. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 624-626.	1.5	1
64	On Negative Differential Resistance and Spontaneous Dissipative Structure Formation in the Electric Break-Down of p-Ge at Low Temperatures. NATO ASI Series Series B: Physics, 1993, , 261-268.	0.2	0
65	An oscillation mechanism of semiconductor breakdown due to magnetic field induced transverse motion of current filaments. Semiconductor Science and Technology, 1992, 7, B486-B487.	2.0	1
66	Spatial correlation of chaotic and hyperchaotic dynamics in a semiconductor experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 164, 201-205.	2.1	3
67	On the Scaling of Type-1 Intermittency in a Semiconductor Experiment. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1991, 46, 1012-1014.	1.5	5
68	Evidence of Type-III Intermittency in the Electric Breakdown of <i>p</i> -Type Germanium. Europhysics Letters, 1991, 14, 1-6.	2.0	24
69	Critical Dynamics near the Onset of Spontaneous Oscillations in p -Germanium. Europhysics Letters, 1989, 9, 743-748.	2.0	21
70	Magnetic Liquid Patterns in Space and Time. Advances in Solid State Physics, 0, , 789-800.	0.8	5