

# Andrejs Cebers

## List of Publications by Year in descending order

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156  
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#	ARTICLE	IF	CITATIONS
1	Equilibrium shapes and stability of magnetic filaments. <i>Physical Review E</i> , 2022, 105, 014601.	0.8	1
2	Energetically favorable configurations of hematite cube chains. <i>Physical Review E</i> , 2022, 105, 024605.	0.8	3
3	A three-dimensional boundary element method algorithm for simulations of magnetic fluid droplet dynamics. <i>Physics of Fluids</i> , 2022, 34, .	1.6	7
4	Thermodiffusion anisotropy under a magnetic field in ionic liquid-based ferrofluids. <i>Soft Matter</i> , 2021, 17, 4566-4577.	1.2	5
5	Collective hydrodynamic transport of magnetic microrollers. <i>Soft Matter</i> , 2021, 17, 8605-8611.	1.2	11
6	Evaluation of Physicochemical Properties of Amphiphilic 1,4-Dihydropyridines and Preparation of Magnetoliposomes. <i>Nanomaterials</i> , 2021, 11, 593.	1.9	6
7	Magnetic field tuning of mechanical properties of ultrasoft PDMS-based magnetorheological elastomers for biological applications. <i>Multifunctional Materials</i> , 2021, 4, 035001.	2.4	3
8	Instability caused swimming of ferromagnetic filaments in pulsed field. <i>Scientific Reports</i> , 2021, 11, 23399.	1.6	4
9	Spontaneous order in ensembles of rotating magnetic droplets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166304.	1.0	10
10	Deformation of flexible ferromagnetic filaments under a rotating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166233.	1.0	3
11	Rivalry of diffusion, external field and gravity in micro-convection of magnetic colloids. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166247.	1.0	2
12	Dispersion of magnetic susceptibility in a suspension of flexible ferromagnetic rods. <i>Journal of Molecular Liquids</i> , 2020, 305, 112823.	2.3	3
13	Swarming of micron-sized hematite cubes in a rotating magnetic field “ Experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166404.	1.0	15
14	3D motion of flexible ferromagnetic filaments under a rotating magnetic field. <i>Soft Matter</i> , 2020, 16, 4477-4483.	1.2	12
15	Quincke rotation driven flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5
16	Magnetically enhancing the Seebeck coefficient in ferrofluids. <i>Nanoscale Advances</i> , 2019, 1, 2979-2989.	2.2	13
17	Hydrodynamic synchronization of pairs of puller type magnetotactic bacteria in a high frequency rotating magnetic field. <i>Soft Matter</i> , 2019, 15, 1627-1632.	1.2	2
18	Thermodiffusion of citrate-coated $\text{Fe}_2\text{O}_3$ nanoparticles in aqueous dispersions with tuned counter-ions “ anisotropy of the Soret coefficient under a magnetic field. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1895-1903.	1.3	11

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19	Rotating-field-driven ensembles of magnetic particles. <i>Physical Review E</i> , 2019, 99, 042605.	0.8	5
20	Gravity effects on mixing with magnetic micro-convection in microfluidics. <i>European Physical Journal E</i> , 2018, 41, 138.	0.7	8
21	Salmon fibrinogen and chitosan scaffold for tissue engineering: in vitro and in vivo evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 182.	1.7	16
22	Thermoelectricity and Thermodiffusion in Magnetic Nanofluids: Entropic Analysis. <i>Entropy</i> , 2018, 20, 405.	1.1	21
23	Magnetic micro-droplet in rotating field: numerical simulation and comparison with experiment. <i>Journal of Fluid Mechanics</i> , 2017, 821, 266-295.	1.4	17
24	Synchronized rotation in swarms of magnetotactic bacteria. <i>Physical Review E</i> , 2017, 96, 042408.	0.8	14
25	Orientational dynamics of fluctuating dipolar particles assembled in a mesoscopic colloidal ribbon. <i>Physical Review E</i> , 2017, 96, 012607.	0.8	3
26	Dynamics of a flexible ferromagnetic filament in a rotating magnetic field. <i>Physical Review E</i> , 2017, 96, 062612.	0.8	6
27	Flexible Magnetic Filaments and their Applications. <i>Advanced Functional Materials</i> , 2016, 26, 3783-3795.	7.8	38
28	Dipolar Rings of Microscopic Ellipsoids: Magnetic Manipulation and Cell Entrapment. <i>Physical Review Applied</i> , 2016, 6, .	1.5	42
29	Hydrodynamics with spin in bacterial suspensions. <i>Physical Review E</i> , 2016, 93, 062404.	0.8	7
30	Estimating the magnetic moment of microscopic magnetic sources from their magnetic field distribution in a layer of nitrogen-vacancy (NV) centres in diamond. <i>EPJ Applied Physics</i> , 2016, 73, 20701.	0.3	9
31	Orientational dynamics of colloidal ribbons self-assembled from microscopic magnetic ellipsoids. <i>Soft Matter</i> , 2016, 12, 3688-3695.	1.2	37
32	Magnetic field driven micro-convection in the Hele-Shaw cell: the Brinkman model and its comparison with experiment. <i>Journal of Fluid Mechanics</i> , 2015, 774, 170-191.	1.4	14
33	Current-induced fingering instability in magnetic domain walls. <i>Physical Review B</i> , 2015, 92, .	1.1	1
34	Magnetic microrods as a tool for microrheology. <i>Soft Matter</i> , 2015, 11, 2563-2569.	1.2	20
35	Magnetic particle mixing with magnetic micro-convection for microfluidics. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 227-230.	1.0	35
36	Time-resolved velocity measurements in a magnetic micromixer. <i>Experimental Thermal and Fluid Science</i> , 2015, 67, 6-13.	1.5	14

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37	Formation of magnetoliposomes using self-assembling 1,4-dihydropyridine derivative and maghemite $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Chemistry of Heterocyclic Compounds, 2015, 51, 672-677.	0.6	3
38	Diffusion in active magnetic colloids. Journal of Magnetism and Magnetic Materials, 2014, 368, 428-431.	1.0	3
39	Polyelectrolyte properties of filamentous biopolymers and their consequences in biological fluids. Soft Matter, 2014, 10, 1439.	1.2	91
40	Poiseuille flow of a Quincke suspension. Physical Review E, 2014, 90, 032305.	0.8	5
41	Relaxation of polar order in suspensions with Quincke effect. Physical Review E, 2014, 89, 052310.	0.8	11
42	Domain-wall flexing instability and propagation in thin ferromagnetic films. Physical Review B, 2013, 88, .	1.1	5
43	Three-dimensional dynamics of a particle with a finite energy of magnetic anisotropy in a rotating magnetic field. Physical Review E, 2013, 88, 062315.	0.8	9
44	The cage elasticity and under-field structure of concentrated magnetic colloids probed by small angle X-ray scattering. Soft Matter, 2013, 9, 11480.	1.2	16
45	Magnetic field driven micro-convection in the Hele-Shaw cell. Journal of Fluid Mechanics, 2013, 714, 612-633.	1.4	20
46	Bilayer properties of giant magnetic liposomes formed by cationic pyridine amphiphile and probed by active deformation under magnetic forces. European Physical Journal E, 2013, 36, 9.	0.7	5
47	NUMERICAL SIMULATION OF MAGNETIC DROPLET DYNAMICS IN A ROTATING FIELD. Mathematical Modelling and Analysis, 2013, 18, 80-96.	0.7	0
48	Magnetic wire-based sensors for the microrheology of complex fluids. Physical Review E, 2013, 88, 062306.	0.8	57
49	Parametric excitation of bending deformations of a rod by periodic twist. Physical Review E, 2013, 87, 023202.	0.8	2
50	Dynamics of anisotropic superparamagnetic particles in a precessing magnetic field. Physical Review E, 2013, 87, 062318.	0.8	11
51	Magnetic dipole with a flexible tail as a self-propelling microdevice. Physical Review E, 2012, 85, 041502.	0.8	9
52	MATHEMATICAL MODELLING OF AN ELONGATED MAGNETIC DROPLET IN A ROTATING MAGNETIC FIELD. Mathematical Modelling and Analysis, 2012, 17, 47-57.	0.7	2
53	Twisting and buckling: A new undulation mechanism for artificial swimmers. European Physical Journal E, 2012, 35, 121.	0.7	6
54	Coupled stochastic dynamics of magnetic moment and anisotropy axis of a magnetic nanoparticle. Physical Review E, 2012, 86, 061405.	0.8	11

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55	Gelation of semiflexible polyelectrolytes by multivalent counterions. <i>Soft Matter</i> , 2011, 7, 7257.	1.2	14
56	Dynamics of superparamagnetic filaments with finite magnetic relaxation time. <i>European Physical Journal E</i> , 2011, 34, 30.	0.7	14
57	Diffusion of magnetotactic bacterium in rotating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 279-282.	1.0	24
58	Three dimensional dynamics of ferromagnetic swimmer. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1278-1282.	1.0	13
59	Dynamics of paramagnetic nanostructured rods under rotating field. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1309-1313.	1.0	44
60	Synchronization of magnetic dipole rotation in an ac magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 295101.	0.7	4
61	FLEXIBLE FERROMAGNETIC FILAMENTS AS ARTIFICIAL CILIA. <i>International Journal of Modern Physics B</i> , 2011, 25, 935-941.	1.0	4
62	Thermal Fluctuation Effects in Magnetophoresis of Superparamagnetic Microbeads. , 2010, , .		1
63	Poor-Contrast Particle Image Processing in Microscale Mixing. , 2010, , .		4
64	Unusual domain-wall motion in ferromagnetic semiconductor films with tetragonal anisotropy. <i>Physical Review B</i> , 2009, 80, .	1.1	3
65	Equilibrium shapes of twisted magnetic filaments. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 235206.	0.7	6
66	Flexible ferromagnetic filaments and the interface with biology. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 650-654.	1.0	13
67	Overdamped dynamics of paramagnetic ellipsoids in a precessing magnetic field. <i>Physical Review E</i> , 2009, 79, 021501.	0.8	64
68	Ferromagnetic microswimmer. <i>Physical Review E</i> , 2009, 79, 051503.	0.8	40
69	Relaxation of the field-induced structural anisotropy in a rotating magnetic fluid. <i>Europhysics Letters</i> , 2009, 86, 10005.	0.7	11
70	Properties of twisted ferromagnetic filaments. <i>Journal of Physics: Conference Series</i> , 2009, 149, 012103.	0.3	2
71	Combined Electrostatics and Hydrogen Bonding Determine Intermolecular Interactions Between Polyphosphoinositides. <i>Journal of the American Chemical Society</i> , 2008, 130, 9025-9030.	6.6	52
72	Electrostatic Contribution to the Surface Pressure of Charged Monolayers Containing Polyphosphoinositides. <i>Biophysical Journal</i> , 2008, 95, 1199-1205.	0.2	52

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73	Elastic properties of DNA linked flexible magnetic filaments. Journal of Physics Condensed Matter, 2008, 20, 204107.	0.7	17
74	Magnetic fluid labyrinthine instability in Hele-Shaw cell with time dependent gap. Physics of Fluids, 2008, 20, 054101.	1.6	7
75	When a crack is oriented by a magnetic field. Physical Review E, 2008, 77, 021402.	0.8	46
76	Thermal fluctuations of non-motile magnetotactic bacteria in AC magnetic fields. Magnetohydrodynamics, 2008, 44, 223-236.	0.5	14
77	Oblate-Prolate Transition of Ellipsoidal Giant Magnetoliposomes: Experiments Showing an Anisotropic Spontaneous Curvature. Perspectives in Supramolecular Chemistry, 2007, , 169-180.	0.1	1
78	Pattern formation in type-I superconducting films. Journal of Applied Physics, 2007, 101, 09G118.	1.1	2
79	Magnetic elastica. Physical Review E, 2007, 76, 031504.	0.8	21
80	Dynamics of Magnetotactic Bacteria in a Rotating Magnetic Field. Biophysical Journal, 2007, 93, 1402-1412.	0.2	97
81	RELAXATION DYNAMICS OF MAGNETIC PARTICLE CHAINS. , 2007, , .		0
82	Nonlinear dynamics of semiflexible magnetic filaments in an ac magnetic field. Physical Review E, 2006, 73, 051503.	0.8	32
83	What Tunes the Structural Anisotropy of Magnetic Fluids under a Magnetic Field?. Journal of Physical Chemistry B, 2006, 110, 4378-4386.	1.2	45
84	Flexible magnetic filaments in a shear flow. Journal of Magnetism and Magnetic Materials, 2006, 300, 67-70.	1.0	12
85	Nucleation and Collapse of the Superconducting Phase in Type-I Superconducting Films. Physical Review Letters, 2006, 96, 087002.	2.9	15
86	Dynamics of an active magnetic particle in a rotating magnetic field. Physical Review E, 2006, 73, 021505.	0.8	63
87	Dynamic fluctuations of dipolar semiflexible filaments. Physical Review E, 2006, 73, 021507.	0.8	5
88	Counterion-Mediated Attraction and Kinks on Loops of Semiflexible Polyelectrolyte Bundles. Physical Review Letters, 2006, 96, 247801.	2.9	12
89	Magnetic forces in 2D foams. Journal of Magnetism and Magnetic Materials, 2005, 289, 215-218.	1.0	5
90	Shapes of a gas bubble rising in the vertical Hele-Shaw cell with magnetic liquid. Journal of Magnetism and Magnetic Materials, 2005, 289, 373-375.	1.0	7

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91	Flexible magnetic filaments. <i>Current Opinion in Colloid and Interface Science</i> , 2005, 10, 167-175.	3.4	81
92	Dynamics of elongated magnetic droplets and elastic rods in magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 289, 335-338.	1.0	7
93	Normal-state bubbles and lamellae in type-I superconductors. <i>Physical Review B</i> , 2005, 72, .	1.1	27
94	Complex bubble dynamics in a vertical Hele-Shaw cell. <i>Physics of Fluids</i> , 2005, 17, 107103.	1.6	8
95	Bidirectional random motion driven by globally coupled noisy active elements in an electric field. <i>Physical Review E</i> , 2004, 70, 011402.	0.8	0
96	Bending of flexible magnetic rods. <i>Physical Review E</i> , 2004, 70, 021404.	0.8	22
97	Dynamics of a flexible magnetic chain in a rotating magnetic field. <i>Physical Review E</i> , 2004, 69, 021404.	0.8	53
98	Bistability and "Negative" Viscosity for a Suspension of Insulating Particles in an Electric Field. <i>Physical Review Letters</i> , 2004, 92, 034501.	2.9	22
99	DYNAMICS OF SMALL BUBBLE INTERFACE PERTURBATIONS IN VERTICAL HELE'SHAW CELL WITH MAGNETIC LIQUID UNDER THE ACTION OF NORMAL MAGNETIC FIELD. <i>Mathematical Modelling and Analysis</i> , 2004, 9, 287-298.	0.7	0
100	Labyrinthine instability of miscible magnetic fluids. <i>Physics of Fluids</i> , 2003, 15, 1734.	1.6	26
101	Deformation of intracellular endosomes under a magnetic field. <i>European Biophysics Journal</i> , 2003, 32, 655-660.	1.2	52
102	Dynamics of a chain of magnetic particles connected with elastic linkers. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S1335-S1344.	0.7	44
103	<title>Electric-field-induced suppression of thermal lensing in ferrofluids</title> . , 2003, 5123, 94.		5
104	STRUCTURES IN A MAGNETIC SUSPENSION SUBJECTED TO UNIDIRECTIONAL AND ROTATING FIELD. <i>International Journal of Modern Physics B</i> , 2002, 16, 2279-2285.	1.0	9
105	HEXAGON-STRIPE TRANSITION AT THE MAGNETIC FIELD INDUCED PHASE TRANSFORMATIONS OF THE MAGNETORHEOLOGICAL SUSPENSIONS. <i>International Journal of Modern Physics B</i> , 2002, 16, 2345-2351.	1.0	3
106	FLOW MODIFICATION INDUCED BY QUINCKE ROTATION IN A CAPILLARY. <i>International Journal of Modern Physics B</i> , 2002, 16, 2603-2609.	1.0	15
107	POLARIZATION OF NON-EQUILIBRIUM DOUBLE LAYER AND AGGLOMERATION OF POLYELECTROLYTE BALLS. <i>International Journal of Modern Physics B</i> , 2002, 16, 2334-2340.	1.0	3
108	Shape Instabilities in Charged Lipid Domains. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12351-12353.	1.2	8

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109	Anisotropy of the structure factor of magnetic fluids under a field probed by small-angle neutron scattering. <i>Physical Review E</i> , 2002, 65, 031403.	0.8	84
110	The anisotropy of the surface tension at the magnetic-field-induced phase transformations. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 252, 259-261.	1.0	4
111	Labyrinthine instability of miscible magnetic fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 252, 293-295.	1.0	4
112	Dynamics of an elongated magnetic droplet in a rotating field. <i>Physical Review E</i> , 2002, 66, 061402.	0.8	21
113	Magnetic phospholipid tubes connected to magnetoliposomes: Pearling instability induced by a magnetic field. <i>European Physical Journal E</i> , 2002, 7, 325-337.	0.7	22
114	STRUCTURES IN A MAGNETIC SUSPENSION SUBMITTED TO UNIDIRECTIONAL AND ROTATING FIELD. , 2002, , .		1
115	FLOW MODIFICATION INDUCED BY QUINCKE ROTATION IN A CAPILLARY. , 2002, , .		0
116	HEXAGON-STRIPE TRANSITION AT THE MAGNETIC FIELD INDUCED PHASE TRANSFORMATIONS OF THE MAGNETORHEOLOGICAL SUSPENSIONS. , 2002, , .		0
117	POLARIZATION OF NON-EQUILIBRIUM DOUBLE LAYER AND AGGLOMERATION OF POLYELECTROLYTE BALLS. , 2002, , .		0
118	SHEAR BANDED STRUCTURES AND NEMATIC TO ISOTROPIC TRANSITION IN MR FLUIDS. <i>International Journal of Modern Physics B</i> , 2001, 15, 878-885.	1.0	6
119	Magnetic-field-induced anisotropic curvature elasticity of a vesicle membrane containing magnetic polyions. <i>Physical Review E</i> , 2001, 63, 041512.	0.8	0
120	Dynamics of the labyrinthine patterns at the diffuse phase boundaries. <i>Brazilian Journal of Physics</i> , 2001, 31, 441-445.	0.7	4
121	Shape transitions of giant liposomes induced by an anisotropic spontaneous curvature. <i>Physical Review E</i> , 2000, 62, 3865-3870.	0.8	35
122	Instabilities of concentration stripe patterns in ferrocolloids. <i>Physical Review E</i> , 2000, 61, 700-708.	0.8	8
123	Electrohydrodynamic instabilities and orientation of dielectric ellipsoids in low-conducting fluids. <i>Physical Review E</i> , 2000, 63, 016301.	0.8	25
124	Title is missing!. <i>Magnetohydrodynamics</i> , 2000, 36, 282-299.	0.5	13
125	Experimental and Theoretical Study of the Field Induced Phase Separation in Electro- and Magnetorheological Suspensions. <i>International Journal of Modern Physics B</i> , 1999, 13, 1791-1797.	1.0	4
126	Viscous fingering in magnetic fluids: numerical simulation of radial Hele-Shaw flow. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 201, 339-342.	1.0	10



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127	Effects of the magnetodipolar interactions in the alternating magnetic fields. Journal of Magnetism and Magnetic Materials, 1999, 201, 218-221.	1.0	9
128	Flow-induced structures in magnetorheological suspensions. Journal of Magnetism and Magnetic Materials, 1999, 201, 66-69.	1.0	27
129	Viscous fingering in a magnetic fluid. I. Radial Hele-Shaw flow. Physics of Fluids, 1998, 10, 2464-2472.	1.6	36
130	Undulation instability in two-dimensional foams of magnetic fluid. European Physical Journal B, 1998, 3, 203-209.	0.6	11
131	Flow-induced transition from cylindrical to layered patterns in magnetorheological suspensions. Physical Review E, 1998, 57, 804-811.	0.8	60
132	Thermo-optical mirror on a free ferrofluid surface. , 1997, , .		2
133	2D shape relaxation dynamics in amphiphile monolayers. Progress in Colloid and Polymer Science, 1997, 105, 142-146.	0.5	0
134	Two-dimensional concentration domain patterns in magnetic suspensions: Energetical and kinetic approach. , 1996, , 101-106.		4
135	Magnetic fluid under vorticity: Free precession decay of magnetization and optical anisotropy. Physical Review E, 1996, 54, 3672-3675.	0.8	2
136	Measurements of ferrofluid surface tension in confined geometry. Physical Review E, 1996, 53, 4801-4806.	0.8	78
137	Magnetic susceptibility in a rotating ferrofluid: Magneto-vortical resonance. Europhysics Letters, 1996, 35, 609-614.	0.7	27
138	Parallel stripes of ferrofluid as a macroscopic bidimensional smectic. Europhysics Letters, 1996, 34, 225-230.	0.7	18
139	Flattening of ferro-vesicle undulations under a magnetic field. Europhysics Letters, 1996, 33, 235-240.	0.7	38
140	Magnetic Fluids. , 1996, , .		115
141	Magnetic vesicles. Materials Science and Engineering C, 1995, 2, 197-203.	3.8	13
142	Liquid magnetic stripe patterns and undulation instabilities. Journal of Magnetism and Magnetic Materials, 1995, 149, 93-96.	1.0	5
143	Dynamics of a magnetic fluid droplet in a rotating field. Journal of Magnetism and Magnetic Materials, 1995, 149, 143-147.	1.0	11
144	Fingering phenomena at bending instability of a magnetic fluid stripe. , 1995, , 30-34.		5

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145	Ramified Structures of Magnetic Suspensions. Journal of Intelligent Material Systems and Structures, 1995, 6, 854-859.	1.4	1
146	Forced Rayleigh Experiment in a Magnetic Fluid. Physical Review Letters, 1995, 74, 5032-5035.	2.9	72
147	Transient grating in a ferrofluid under magnetic field: Effect of magnetic interactions on the diffusion coefficient of translation. Physical Review E, 1995, 52, 3936-3942.	0.8	77
148	Threshold and Marginal Curve of Magnetic Faraday Instability. Europhysics Letters, 1994, 27, 437-443.	0.7	18
149	Hydrodynamics of fingering instabilities in dipolar fluids. Physical Review E, 1994, 50, 298-307.	0.8	112
150	Roll-rectangle transition in the magnetic fluid Faraday instability. Physical Review E, 1994, 50, 2712-2715.	0.8	18
151	Behavior of a magnetic fluid microdrop in a rotating magnetic field. Physical Review Letters, 1994, 72, 2705-2708.	2.9	98
152	Periodic branched structures in a phase-separated magnetic colloid. Physical Review Letters, 1994, 72, 1929-1932.	2.9	87
153	Chaos in polarization relaxation of a low-conducting suspension of anisotropic particles. Journal of Magnetism and Magnetic Materials, 1993, 122, 277-280.	1.0	9
154	Chaos: new trend of magnetic fluid research. Journal of Magnetism and Magnetic Materials, 1993, 122, 281-285.	1.0	11
155	Phase separation of magnetic colloids and concentration domain patterns. Journal of Magnetism and Magnetic Materials, 1990, 85, 20-26.	1.0	18
156	Small deformation theory for a magnetic droplet in a rotating field. Physics of Fluids, 0, , .	1.6	3