

Juan de Vicente

List of Publications by Year in descending order

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140
papers

5,541
citations

81743

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69
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141
all docs

141
docs citations

141
times ranked

4351
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetorheological fluids: a review. <i>Soft Matter</i> , 2011, 7, 3701.	1.2	900
2	Bio-inspired hydrogel composed of hyaluronic acid and alginate as a potential bioink for 3D bioprinting of articular cartilage engineering constructs. <i>Acta Biomaterialia</i> , 2020, 106, 114-123.	4.1	219
3	Soft lubrication of model hydrocolloids. <i>Food Hydrocolloids</i> , 2006, 20, 483-491.	5.6	166
4	The Frictional Properties of Newtonian Fluids in Rolling/Sliding soft-EHL Contact. <i>Tribology Letters</i> , 2005, 20, 273-286.	1.2	154
5	Effect of particle shape in magnetorheology. <i>Journal of Rheology</i> , 2010, 54, 1337-1362.	1.3	139
6	Dynamic rheology of sphere- and rod-based magnetorheological fluids. <i>Journal of Chemical Physics</i> , 2009, 131, 194902.	1.2	121
7	Rheological study of the stabilization of magnetizable colloidal suspensions by addition of silica nanoparticles. <i>Journal of Rheology</i> , 2003, 47, 1093-1109.	1.3	108
8	Preparation of stable magnetorheological fluids based on extremely bimodal iron magnetite suspensions. <i>Journal of Materials Research</i> , 2005, 20, 874-881.	1.2	106
9	Stabilization of magnetorheological suspensions by polyacrylic acid polymers. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 527-541.	5.0	105
10	Stability of Cobalt Ferrite Colloidal Particles. Effect of pH and Applied Magnetic Fields. <i>Langmuir</i> , 2000, 16, 7954-7961.	1.6	98
11	Permeability measurements in cobalt ferrite and carbonyl iron powders and suspensions. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 251, 100-108.	1.0	96
12	Lubrication properties of non-adsorbing polymer solutions in soft elastohydrodynamic (EHD) contacts. <i>Tribology International</i> , 2005, 38, 515-526.	3.0	91
13	Thermo-Sensitive Nanomaterials: Recent Advance in Synthesis and Biomedical Applications. <i>Nanomaterials</i> , 2018, 8, 935.	1.9	90
14	Shear flow behavior of confined magnetorheological fluids at low magnetic field strengths. <i>Rheologica Acta</i> , 2004, 44, 94-103.	1.1	84
15	Magnetorheology: a review. <i>Soft Matter</i> , 2020, 16, 9614-9642.	1.2	83
16	Synthesis and Characterization of Single-Domain Monocrystalline Magnetite Particles by Oxidative Aging of Fe(OH) ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 5843-5849.	1.5	79
17	Preparation and Sedimentation Behavior in Magnetic Fields of Magnetite-Covered Clay Particles. <i>Langmuir</i> , 2005, 21, 4410-4419.	1.6	78
18	On the use of magnetic nano and microparticles for lake restoration. <i>Journal of Hazardous Materials</i> , 2010, 181, 375-381.	6.5	73

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19	Nonlinear viscoelasticity and two-step yielding in magnetorheology: A colloidal gel approach to understand the effect of particle concentration. <i>Journal of Rheology</i> , 2012, 56, 1429-1448.	1.3	72
20	Clinical Trials of Thermosensitive Nanomaterials: An Overview. <i>Nanomaterials</i> , 2019, 9, 191.	1.9	72
21	Influence of a Magnetic Field on the Formation of Magnetite Particles via Two Precipitation Methods. <i>Langmuir</i> , 2007, 23, 3581-3589.	1.6	67
22	Magnetic microparticles as a new tool for lake restoration: A microcosm experiment for evaluating the impact on phosphorus fluxes and sedimentary phosphorus pools. <i>Water Research</i> , 2016, 89, 366-374.	5.3	65
23	Viscosity Ratio Effect in the Emulsion Lubrication of Soft EHL Contact. <i>Journal of Tribology</i> , 2006, 128, 795-800.	1.0	62
24	Squeeze flow magnetorheology. <i>Journal of Rheology</i> , 2011, 55, 753-779.	1.3	60
25	Stability of magnetizable colloidal suspensions by addition of oleic acid and silica nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 264, 75-81.	2.3	59
26	Steady shear magnetorheology of inverse ferrofluids. <i>Journal of Rheology</i> , 2011, 55, 127-152.	1.3	58
27	Investigating the effect of surfactants on lipase interfacial behaviour in the presence of bile salts. <i>Food Hydrocolloids</i> , 2011, 25, 809-816.	5.6	57
28	Physical Properties of Elongated Magnetic Particles: Magnetization and Friction Coefficient Anisotropies. <i>ChemPhysChem</i> , 2009, 10, 1165-1179.	1.0	56
29	Normal force study in concentrated carbonyl iron magnetorheological suspensions. <i>Journal of Rheology</i> , 2002, 46, 1295-1303.	1.3	52
30	Delaying lipid digestion through steric surfactant Pluronic F68: A novel in vitro approach. <i>Food Research International</i> , 2010, 43, 1629-1633.	2.9	50
31	Carbon Xerogel Microspheres and Monoliths from Resorcinol-Formaldehyde Mixtures with Varying Dilution Ratios: Preparation, Surface Characteristics, and Electrochemical Double-Layer Capacitances. <i>Langmuir</i> , 2013, 29, 6166-6173.	1.6	50
32	Setting up High Gradient Magnetic Separation for combating eutrophication of inland waters. <i>Journal of Hazardous Materials</i> , 2011, 186, 2068-2074.	6.5	49
33	Effects of cooling temperature profiles on the monoglycerides oleogel properties: A rheo-microscopy study. <i>Food Research International</i> , 2019, 125, 108613.	2.9	49
34	Rolling and sliding friction in compliant, lubricated contact. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2006, 220, 55-63.	1.0	47
35	Controlling lipolysis through steric surfactants: New insights on the controlled degradation of submicron emulsions after oral and intravenous administration. <i>International Journal of Pharmaceutics</i> , 2012, 423, 161-166.	2.6	47
36	Oxidation of ferrous hydroxides with nitrate: A versatile method for the preparation of magnetic colloidal particles. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 50-56.	5.0	44

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37	Thermal transport in sheared electro- and magnetorheological fluids. <i>Physics of Fluids</i> , 2006, 18, 023301.	1.6	43
38	A comparative study of the tribological performance of ferrofluids and magnetorheological fluids within steel-steel point contacts. <i>Tribology International</i> , 2014, 78, 125-133.	3.0	43
39	A structural viscosity model for magnetorheology. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	40
40	Tribological behavior of ionic liquid-based magnetorheological fluids in steel and polymeric point contacts. <i>Tribology International</i> , 2015, 81, 309-320.	3.0	39
41	Controlling friction using magnetic nanofluids. <i>Soft Matter</i> , 2011, 7, 880-883.	1.2	38
42	Thin-Film Rheology and Tribology of Magnetorheological Fluids in Isoviscous-EHL Contacts. <i>Tribology Letters</i> , 2012, 47, 149-162.	1.2	38
43	Two-step yielding in magnetorheology. <i>Journal of Rheology</i> , 2014, 58, 1507-1534.	1.3	37
44	Boundary lubrication of magnetorheological fluids in PTFE/steel point contacts. <i>Wear</i> , 2012, 296, 484-490.	1.5	34
45	Testing the mean magnetization approximation, dimensionless and scaling numbers in magnetorheology. <i>Soft Matter</i> , 2016, 12, 1468-1476.	1.2	34
46	Soft lubrication characteristics of microparticulated whey proteins used as fat replacers in dairy systems. <i>Journal of Food Engineering</i> , 2019, 245, 157-165.	2.7	34
47	A slender-body micromechanical model for viscoelasticity of magnetic colloids: Comparison with preliminary experimental data. <i>Journal of Colloid and Interface Science</i> , 2005, 282, 193-201.	5.0	33
48	Evidence of direct crystal growth and presence of hollow microspheres in magnetite particles prepared by oxidation of Fe(OH) ₂ . <i>Journal of Colloid and Interface Science</i> , 2008, 318, 520-524.	5.0	33
49	Effect of humic acid adsorption on the rheological properties of sodium montmorillonite suspensions. <i>Journal of Rheology</i> , 2001, 45, 1159-1172.	1.3	32
50	Surface rheology of sorbitan tristearate and β -lactoglobulin: Shear and dilatational behavior. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 713-722.	1.0	32
51	The influence of pH on manganese removal by magnetic microparticles in solution. <i>Water Research</i> , 2014, 53, 110-122.	5.3	32
52	A microcosm experiment to determine the consequences of magnetic microparticles application on water quality and sediment phosphorus pools. <i>Science of the Total Environment</i> , 2017, 579, 245-253.	3.9	32
53	Development of a Biomimetic Hydrogel Based on Predifferentiated Mesenchymal Stem Cell-Derived ECM for Cartilage Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001847.	3.9	32
54	Chemical interferences when using high gradient magnetic separation for phosphate removal: Consequences for lake restoration. <i>Journal of Hazardous Materials</i> , 2011, 192, 995-1001.	6.5	31

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55	Small-Amplitude Oscillatory Shear Magnetorheology of Inverse Ferrofluids. <i>Langmuir</i> , 2010, 26, 9334-9341.	1.6	30
56	On the validity of continuous media theory for plastic materials in magnetorheological fluids under slow compression. <i>Rheologica Acta</i> , 2012, 51, 595-602.	1.1	30
57	Stability of Dispersions of Colloidal Nickel Ferrite Spheres. <i>Journal of Colloid and Interface Science</i> , 2001, 242, 306-313.	5.0	29
58	Model magnetorheology: A direct comparative study between theories, particle-level simulations and experiments, in steady and dynamic oscillatory shear. <i>Journal of Rheology</i> , 2016, 60, 61-74.	1.3	29
59	Magnetorheology of dimorphic magnetorheological fluids based on nanofibers. <i>Smart Materials and Structures</i> , 2014, 23, 125013.	1.8	26
60	Creep and recovery of magnetorheological fluids: Experiments and simulations. <i>Journal of Rheology</i> , 2014, 58, 1725-1750.	1.3	26
61	Soft Elasto-Hydrodynamic Lubrication. <i>Tribology Letters</i> , 2010, 39, 109-114.	1.2	25
62	Bulk and interfacial viscoelasticity in concentrated emulsions: The role of the surfactant. <i>Food Hydrocolloids</i> , 2011, 25, 677-686.	5.6	25
63	Thermoresponsive polymer-based magneto-rheological (MR) composites as a bridge between MR fluids and MR elastomers. <i>Soft Matter</i> , 2013, 9, 11451.	1.2	25
64	Simulations of polydisperse magnetorheological fluids: A structural and kinetic investigation. <i>Journal of Rheology</i> , 2015, 59, 475-498.	1.3	25
65	Magnetorheology of Carbonyl Iron Dispersions in 1-Alkyl-3-methylimidazolium Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9956-9963.	1.8	25
66	Determining major factors controlling phosphorus removal by promising adsorbents used for lake restoration: A linear mixed model approach. <i>Water Research</i> , 2018, 141, 377-386.	5.3	25
67	Brownian dynamics simulations in magnetorheology and comparison with experiments. <i>Soft Matter</i> , 2013, 9, 6970.	1.2	24
68	Aging, rejuvenation, and thixotropy in yielding magnetorheological fluids. <i>Rheologica Acta</i> , 2013, 52, 467-483.	1.1	22
69	The effect of polymeric surfactants on the rheological properties of nanoemulsions. <i>Colloid and Polymer Science</i> , 2013, 291, 709-716.	1.0	22
70	Synthesis and characterization of magnetic chitosan microspheres as low-density and low-biototoxicity adsorbents for lake restoration. <i>Chemosphere</i> , 2017, 171, 571-579.	4.2	22
71	Yielding behavior of model magnetorheological fluids. <i>Soft Matter</i> , 2019, 15, 3330-3342.	1.2	22
72	Effect of friction between particles in the dynamic response of model magnetic structures. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 867-876.	5.0	20

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73	Preparation and characterization of magnetorheological fluids by dispersion of carbonyl iron microparticles in PAO/1-octanol. <i>Smart Materials and Structures</i> , 2016, 25, 015023.	1.8	20
74	Thermogelling magnetorheological fluids. <i>Smart Materials and Structures</i> , 2014, 23, 025012.	1.8	19
75	Extensional rheometry of magnetic dispersions. <i>Journal of Rheology</i> , 2015, 59, 193-209.	1.3	19
76	Towards a universal master curve in magnetorheology. <i>Smart Materials and Structures</i> , 2017, 26, 054001.	1.8	19
77	Electrokinetic and viscoelastic properties of magnetorheological suspensions of cobalt ferrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 195, 181-188.	2.3	18
78	Electrical double layer and rheological properties of yttria-stabilized zirconia suspensions in solutions of high molecular weight polyacrylic acid polymers. <i>Rheologica Acta</i> , 2004, 43, 645-656.	1.1	18
79	Colloidal characterization of micron-sized rod-like magnetite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 319, 122-129.	2.3	18
80	A method for the estimation of the film thickness and plate tilt angle in thin film misaligned plate-plate rheometry. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 1419-1421.	1.0	18
81	Aggregation kinetics of carbonyl iron based magnetic suspensions in 2D. <i>Soft Matter</i> , 2017, 13, 2677-2685.	1.2	18
82	Ferrofluid Lubrication of Compliant Polymeric Contacts: Effect of Non-homogeneous Magnetic Fields. <i>Tribology Letters</i> , 2014, 56, 281-292.	1.2	17
83	Simulations of model magnetorheological fluids in squeeze flow mode. <i>Journal of Rheology</i> , 2017, 61, 871-881.	1.3	17
84	A micromechanical model for magnetorheological fluids under slow compression. <i>Rheologica Acta</i> , 2016, 55, 215-221.	1.1	16
85	Rheological behavior of magnetic colloids in the borderline between ferrofluids and magnetorheological fluids. <i>Journal of Rheology</i> , 2019, 63, 547-558.	1.3	16
86	Average particle magnetization as an experimental scaling parameter for the yield stress of dilute magnetorheological fluids. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425002.	1.3	15
87	Synthesis, surface characteristics, and electrochemical capacitance of Cu-doped carbon xerogel microspheres. <i>Carbon</i> , 2013, 55, 260-268.	5.4	15
88	Effect of particle aspect ratio in magnetorheology. <i>Smart Materials and Structures</i> , 2015, 24, 125005.	1.8	15
89	On the yield stress in magnetorheological fluids: A direct comparison between 3D simulations and experiments. <i>Composites Part B: Engineering</i> , 2019, 160, 626-631.	5.9	15
90	Validation of the 1,4-butanediol thermoplastic polyurethane as a novel material for 3D bioprinting applications. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10192.	3.9	15

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91	Pore geometry influences growth and cell adhesion of infrapatellar mesenchymal stem cells in biofabricated 3D thermoplastic scaffolds useful for cartilage tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 122, 111933.	3.8	15
92	Synthesis of Ni ferrite and Co ferrite rodlike particles by superposition of a constant magnetic field. <i>Journal of Materials Research</i> , 2008, 23, 1764-1775.	1.2	14
93	On the nonparallelism effect in thin film plate rheometry. <i>Journal of Rheology</i> , 2011, 55, 981-986.	1.3	14
94	Enhancing magnetorheological effect using bimodal suspensions in the single-multidomain limit. <i>Smart Materials and Structures</i> , 2018, 27, 07LT01.	1.8	14
95	Evaluating the effect of CFH-12 [®] and Phoslock [®] on phosphorus dynamics during anoxia and resuspension in shallow eutrophic lakes. <i>Environmental Pollution</i> , 2021, 269, 116093.	3.7	13
96	EFFECT OF MAGNETIC HYSTERESIS OF THE SOLID PHASE ON THE RHEOLOGICAL PROPERTIES OF MR FLUIDS. <i>International Journal of Modern Physics B</i> , 2002, 16, 2576-2582.	1.0	12
97	Particle roughness in magnetorheology: effect on the strength of the field-induced structures. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 015309.	1.3	12
98	Start-up rheometry of highly polydisperse magnetorheological fluids: experiments and simulations. <i>Rheologica Acta</i> , 2016, 55, 245-256.	1.1	12
99	Isoviscous elastohydrodynamic lubrication of inelastic Non-Newtonian fluids. <i>Tribology International</i> , 2019, 140, 105707.	3.0	12
100	Synthesis and rheological properties of 3D structured self-healing magnetic hydrogels. <i>Polymer</i> , 2021, 218, 123489.	1.8	12
101	On the effect of particle porosity and roughness in magnetorheology. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	11
102	Measuring the yield stress in magnetorheological fluids using ultrasounds. <i>Applied Physics Letters</i> , 2013, 102, 081907.	1.5	11
103	In vitro duodenal lipolysis of lipid-based drug delivery systems studied by HPLC-UV and HPLC-MS. <i>International Journal of Pharmaceutics</i> , 2014, 465, 396-404.	2.6	11
104	Faceted particles: An approach for the enhancement of the elasticity and the yield-stress of magnetorheological fluids. <i>Applied Physics Letters</i> , 2016, 108, 211904.	1.5	11
105	Double-gap plate rheometry. <i>Journal of Rheology</i> , 2018, 62, 1485-1494.	1.3	11
106	Rough and Hollow Spherical Magnetite Microparticles: Revealing the Morphology, Internal Structure, and Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5397-5406.	1.5	10
107	Preparation, characterization and in vivo evaluation of nanoemulsions for the controlled delivery of the antiobesity agent N-oleoylethanolamine. <i>Nanomedicine</i> , 2014, 9, 2761-2772.	1.7	10
108	Design of smart lubricants using the inverse ferrofluid approach. <i>Tribology International</i> , 2022, 166, 107346.	3.0	10

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109	Control of surface morphology and internal structure in magnetite microparticles: from smooth single crystals to rough polycrystals. <i>CrystEngComm</i> , 2013, 15, 5236.	1.3	8
110	Tribological Behavior of Glycerol/Water-Based Magnetorheological Fluids in PMMA Point Contacts. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	8
111	Magnetorheology of Bimodal Fluids in the Singleâ€“Multidomain Limit. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13427-13436.	1.8	7
112	Magnetorheology of exotic magnetic mesostructures generated under triaxial unsteady magnetic fields. <i>Smart Materials and Structures</i> , 2021, 30, 014005.	1.8	7
113	Importance of the rheological properties of resorcinolâ€“formaldehyde sols in the preparation of Cu-doped organic and carbon xerogel microspheres. <i>Carbon</i> , 2013, 53, 402-405.	5.4	6
114	Colloidal Stability and Magnetic Field-Induced Ordering of Magnetorheological Fluids Studied with a Quartz Crystal Microbalance. <i>Sensors</i> , 2015, 15, 30443-30456.	2.1	6
115	Facile synthesis of magnetic agarose microfibers by directed self-assembly in W/O emulsions. <i>Polymer</i> , 2016, 93, 61-64.	1.8	6
116	Fabrication of strong magnetic micron-sized supraparticles with anisotropic magnetic properties for magnetorheology. <i>Soft Matter</i> , 2021, 17, 3733-3744.	1.2	6
117	Enhancing magnetorheology with precession magnetic fields. <i>Journal of Rheology</i> , 2022, 66, 67-78.	1.3	6
118	Continuous media theory for MR fluids in non-shearing flows. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012057.	0.3	5
119	On the importance of carrier fluid viscosity and particleâ€“wall interactions in magnetic-guided assembly of quasi-2D systems. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	5
120	Ternary solid-ferrofluid-liquid magnetorheological fluids. <i>Smart Materials and Structures</i> , 2018, 27, 075017.	1.8	5
121	Calcium-induced skim milk gels: Effect of milk powder concentration and pH on tribo-rheological characteristics and gel physico-chemical properties. <i>Food Hydrocolloids</i> , 2022, 124, 107335.	5.6	5
122	Using ultrasounds for the estimation of the misalignment in plateâ€“plate torsional rheometry. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 205301.	1.3	4
123	Magnetorheology of hybrid colloids obtained by spin-coating and classical rheometry. <i>Smart Materials and Structures</i> , 2016, 25, 075036.	1.8	4
124	Effect of Confinement on the Aggregation Kinetics of Dilute Magnetorheological Fluids. <i>Smart Materials and Structures</i> , 2017, 26, 105031.	1.8	4
125	Describing magnetorheology under a colloidal glass approach. <i>Physical Review E</i> , 2017, 95, 052601.	0.8	4
126	Magnetorheology in saturating fields. <i>Physical Review E</i> , 2019, 99, 062604.	0.8	4

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127	On the yielding behaviour in magnetorheology using ultrasounds, shear and normal stresses, and optical microscopy. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465503.	1.3	3
128	Effect of surface roughness on the magnetic interaction between micron-sized ferromagnetic particles: Finite element method calculations. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 992-998.	1.4	3
129	On the importance of interchain interaction and rotational contribution to the computation of the yield stress in magnetorheology. <i>Smart Materials and Structures</i> , 2019, 28, 08LT01.	1.8	3
130	Soft lubrication of cornstarch-based shear-thickening fluids. <i>Smart Materials and Structures</i> , 2019, 28, 085044.	1.8	2
131	Living magnetorheological composites: from the synthesis to the in vitro characterization. <i>Smart Materials and Structures</i> , 2021, 30, 065015.	1.8	2
132	DEM and FEM simulations in magnetorheology: aggregation kinetics and yield stress. , 2019, , 19-38.		2
133	Suspensions of repulsive colloidal particles near the glass transition: Time and frequency domain descriptions. <i>Physical Review E</i> , 2010, 82, 021406.	0.8	1
134	Brownian dynamic simulations and experiments of MR fluids. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012056.	0.3	1
135	Enhancing magnetorheology through the directed self-assembly under toggled magnetic fields in saturation. <i>Smart Materials and Structures</i> , 2021, 30, 105029.	1.8	1
136	Soft EHL Lubrication of Complex Multiphase Fluids. , 2005, , 589.		0
137	Simulation of field-induced structures in magnetic fluids. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
138	Second International Soft Matter Conference 2010 - ISMC2010. <i>Applied Rheology</i> , 2011, 21, 122-124.	3.5	0
139	CHAPTER 6. Thin-film Rheology and Tribology of Magnetorheological Fluids. <i>RSC Smart Materials</i> , 2013, , 142-155.	0.1	0
140	Physics of Magnetorheological Fluids. , 2022, , 215-223.		0