

Juan de Vicente

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

136
papers

4,421
citations

36
h-index

61
g-index

141
ext. papers

4,976
ext. citations

4.8
avg, IF

5.9
L-index

#	Paper	IF	Citations
136	Enhancing magnetorheology with precession magnetic fields. <i>Journal of Rheology</i> , 2022 , 66, 67-78	4.1	2
135	Design of smart lubricants using the inverse ferrofluid approach. <i>Tribology International</i> , 2022 , 166, 107346	4.6	1
134	Physics of Magnetorheological Fluids 2022 , 215-223		
133	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> , 2021 , 107335	10.6	0
132	Magnetorheology of exotic magnetic mesostructures generated under triaxial unsteady magnetic fields. <i>Smart Materials and Structures</i> , 2021 , 30, 014005	3.4	2
131	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	10.1	6
130	Synthesis and rheological properties of 3D structured self-healing magnetic hydrogels. <i>Polymer</i> , 2021 , 218, 123489	3.9	6
129	Living magnetorheological composites: from the synthesis to the in vitro characterization. <i>Smart Materials and Structures</i> , 2021 , 30, 065015	3.4	1
128	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	9.3	3
127	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	14.8	5
126	Fabrication of strong magnetic micron-sized supraparticles with anisotropic magnetic properties for magnetorheology. <i>Soft Matter</i> , 2021 , 17, 3733-3744	3.6	1
125	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	8.3	7
124	Enhancing magnetorheology through the directed self-assembly under toggled magnetic fields in saturation. <i>Smart Materials and Structures</i> , 2021 , 30, 105029	3.4	
123	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	10.8	98
122	Magnetorheology: a review. <i>Soft Matter</i> , 2020 , 16, 9614-9642	3.6	36
121	Effects of cooling temperature profiles on the monoglycerides oleogel properties: A rheo-microscopy study. <i>Food Research International</i> , 2019 , 125, 108613	7	24
120	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	10	12

119	Magnetorheology in saturating fields. <i>Physical Review E</i> , 2019 , 99, 062604	2.4	2
118	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	3.4	3
117	Soft lubrication of cornstarch-based shear-thickening fluids. <i>Smart Materials and Structures</i> , 2019 , 28, 085044	3.4	1
116	Rheological behavior of magnetic colloids in the borderline between ferrofluids and magnetorheological fluids. <i>Journal of Rheology</i> , 2019 , 63, 547-558	4.1	14
115	Tribological Behavior of Glycerol/Water-Based Magnetorheological Fluids in PMMA Point Contacts. <i>Frontiers in Materials</i> , 2019 , 6,	4	3
114	Isoviscous elastohydrodynamic lubrication of inelastic Non-Newtonian fluids. <i>Tribology International</i> , 2019 , 140, 105707	4.9	7
113	Yielding behavior of model magnetorheological fluids. <i>Soft Matter</i> , 2019 , 15, 3330-3342	3.6	12
112	Clinical Trials of Thermosensitive Nanomaterials: An Overview. <i>Nanomaterials</i> , 2019 , 9,	5.4	52
111	Soft lubrication characteristics of microparticulated whey proteins used as fat replacers in dairy systems. <i>Journal of Food Engineering</i> , 2019 , 245, 157-165	6	26
110	Ternary solid-ferrofluid-liquid magnetorheological fluids. <i>Smart Materials and Structures</i> , 2018 , 27, 0750174	3.4	4
109	Double-gap plate-plate magnetorheology. <i>Journal of Rheology</i> , 2018 , 62, 1485-1494	4.1	8
108	Thermo-Sensitive Nanomaterials: Recent Advance in Synthesis and Biomedical Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	71
107	Magnetorheology of Bimodal Fluids in the Single-Multidomain Limit. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13427-13436	3.9	6
106	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	12.5	17
105	Enhancing magnetorheological effect using bimodal suspensions in the single-multidomain limit. <i>Smart Materials and Structures</i> , 2018 , 27, 07LT01	3.4	7
104	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	2.3	2
103	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	10.2	26
102	Aggregation kinetics of carbonyl iron based magnetic suspensions in 2D. <i>Soft Matter</i> , 2017 , 13, 2677-2685	3.6	14

101	Towards a universal master curve in magnetorheology. <i>Smart Materials and Structures</i> , 2017 , 26, 054001	3.4	11
100	Synthesis and characterization of magnetic chitosan microspheres as low-density and low-biototoxicity adsorbents for lake restoration. <i>Chemosphere</i> , 2017 , 171, 571-579	8.4	15
99	Effect of Confinement on the Aggregation Kinetics of Dilute Magnetorheological Fluids. <i>Smart Materials and Structures</i> , 2017 , 26, 105031	3.4	2
98	Simulations of model magnetorheological fluids in squeeze flow mode. <i>Journal of Rheology</i> , 2017 , 61, 871-881	4.1	11
97	Describing magnetorheology under a colloidal glass approach. <i>Physical Review E</i> , 2017 , 95, 052601	2.4	3
96	On the importance of carrier fluid viscosity and particle-wall interactions in magnetic-guided assembly of quasi-2D systems. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	4
95	Magnetorheology of hybrid colloids obtained by spin-coating and classical rheometry. <i>Smart Materials and Structures</i> , 2016 , 25, 075036	3.4	3
94	Start-up rheometry of highly polydisperse magnetorheological fluids: experiments and simulations. <i>Rheologica Acta</i> , 2016 , 55, 245-256	2.3	9
93	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, 366-74	12.5	51
92	Testing the mean magnetization approximation, dimensionless and scaling numbers in magnetorheology. <i>Soft Matter</i> , 2016 , 12, 1468-76	3.6	28
91	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	4.1	20
90	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	3.4	9
89	Facile synthesis of magnetic agarose microfibers by directed self-assembly in W/O emulsions. <i>Polymer</i> , 2016 , 93, 61-64	3.9	2
88	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	3.4	17
87	A micromechanical model for magnetorheological fluids under slow compression. <i>Rheologica Acta</i> , 2016 , 55, 215-221	2.3	10
86	Magnetorheology of Carbonyl Iron Dispersions in 1-Alkyl-3-methylimidazolium Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9956-9963	3.9	15
85	Particle roughness in magnetorheology: effect on the strength of the field-induced structures. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 015309	3	10
84	Extensional rheometry of magnetic dispersions. <i>Journal of Rheology</i> , 2015 , 59, 193-209	4.1	15

83	Tribological behavior of ionic liquid-based magnetorheological fluids in steel and polymeric point contacts. <i>Tribology International</i> , 2015 , 81, 309-320	4.9	27
82	Colloidal Stability and Magnetic Field-Induced Ordering of Magnetorheological Fluids Studied with a Quartz Crystal Microbalance. <i>Sensors</i> , 2015 , 15, 30443-56	3.8	6
81	Effect of particle aspect ratio in magnetorheology. <i>Smart Materials and Structures</i> , 2015 , 24, 125005	3.4	11
80	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	3	3
79	Simulations of polydisperse magnetorheological fluids: A structural and kinetic investigation. <i>Journal of Rheology</i> , 2015 , 59, 475-498	4.1	17
78	Thermogelling magnetorheological fluids. <i>Smart Materials and Structures</i> , 2014 , 23, 025012	3.4	16
77	Two-step yielding in magnetorheology. <i>Journal of Rheology</i> , 2014 , 58, 1507-1534	4.1	33
76	Creep and recovery of magnetorheological fluids: Experiments and simulations. <i>Journal of Rheology</i> , 2014 , 58, 1725-1750	4.1	20
75	The influence of pH on manganese removal by magnetic microparticles in solution. <i>Water Research</i> , 2014 , 53, 110-22	12.5	27
74	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	4.9	31
73	Ferrofluid Lubrication of Compliant Polymeric Contacts: Effect of Non-homogeneous Magnetic Fields. <i>Tribology Letters</i> , 2014 , 56, 281-292	2.8	13
72	Magnetorheology of dimorphic magnetorheological fluids based on nanofibers. <i>Smart Materials and Structures</i> , 2014 , 23, 125013	3.4	20
71	Preparation, characterization and in vivo evaluation of nanoemulsions for the controlled delivery of the antiobesity agent N-oleoylethanolamine. <i>Nanomedicine</i> , 2014 , 9, 2761-72	5.6	10
70	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	6.5	6
69	Control of surface morphology and internal structure in magnetite microparticles: from smooth single crystals to rough polycrystals. <i>CrystEngComm</i> , 2013 , 15, 5236	3.3	7
68	Aging, rejuvenation, and thixotropy in yielding magnetorheological fluids. <i>Rheologica Acta</i> , 2013 , 52, 467-483	2.3	17
67	The effect of polymeric surfactants on the rheological properties of nanoemulsions. <i>Colloid and Polymer Science</i> , 2013 , 291, 709-716	2.4	18
66	Thermoresponsive polymer-based magneto-rheological (MR) composites as a bridge between MR fluids and MR elastomers. <i>Soft Matter</i> , 2013 , 9, 11451	3.6	23

65	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	9.3	37
64	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	3.8	9
63	Brownian dynamics simulations in magnetorheology and comparison with experiments. <i>Soft Matter</i> , 2013 , 9, 6970	3.6	22
62	Using ultrasounds for the estimation of the misalignment in plate-plate torsional rheometry. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 205301	3	2
61	Importance of the rheological properties of resorcinol-formaldehyde sols in the preparation of Cu-doped organic and carbon xerogel microspheres. <i>Carbon</i> , 2013 , 53, 402-405	10.4	6
60	Synthesis, surface characteristics, and electrochemical capacitance of Cu-doped carbon xerogel microspheres. <i>Carbon</i> , 2013 , 55, 260-268	10.4	14
59	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, 6166-73	4	40
58	Brownian dynamic simulations and experiments of MR fluids. <i>Journal of Physics: Conference Series</i> , 2013 , 412, 012056	0.3	1
57	Measuring the yield stress in magnetorheological fluids using ultrasounds. <i>Applied Physics Letters</i> , 2013 , 102, 081907	3.4	11
56	Continuous media theory for MR fluids in non-shearing flows. <i>Journal of Physics: Conference Series</i> , 2013 , 412, 012057	0.3	5
55	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, 161-6	6.5	41
54	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	4.1	66
53	Boundary lubrication of magnetorheological fluids in PTFE/steel point contacts. <i>Wear</i> , 2012 , 296, 484-495	3.5	21
52	A structural viscosity model for magnetorheology. <i>Applied Physics Letters</i> , 2012 , 101, 021903	3.4	36
51	Thin-Film Rheology and Tribology of Magnetorheological Fluids in Isoviscous-EHL Contacts. <i>Tribology Letters</i> , 2012 , 47, 149-162	2.8	31
50	On the validity of continuous media theory for plastic materials in magnetorheological fluids under slow compression. <i>Rheologica Acta</i> , 2012 , 51, 595-602	2.3	25
49	Magnetorheological fluids: a review. <i>Soft Matter</i> , 2011 , 7, 3701	3.6	727
48	Controlling friction using magnetic nanofluids. <i>Soft Matter</i> , 2011 , 7, 880-883	3.6	36

47	On the nonparallelism effect in thin film plate-plate rheometry. <i>Journal of Rheology</i> , 2011 , 55, 981-986	4.1	11
46	On the effect of particle porosity and roughness in magnetorheology. <i>Journal of Applied Physics</i> , 2011 , 110, 063520	2.5	11
45	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	3	12
44	Steady shear magnetorheology of inverse ferrofluids. <i>Journal of Rheology</i> , 2011 , 55, 127-152	4.1	47
43	Squeeze flow magnetorheology. <i>Journal of Rheology</i> , 2011 , 55, 753-779	4.1	53
42	Surface rheology of sorbitan tristearate and β -lactoglobulin: Shear and dilatational behavior. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011 , 166, 713-722	2.7	28
41	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	12.8	25
40	Bulk and interfacial viscoelasticity in concentrated emulsions: The role of the surfactant. <i>Food Hydrocolloids</i> , 2011 , 25, 677-686	10.6	18
39	Investigating the effect of surfactants on lipase interfacial behaviour in the presence of bile salts. <i>Food Hydrocolloids</i> , 2011 , 25, 809-816	10.6	54
38	Setting up High Gradient Magnetic Separation for combating eutrophication of inland waters. <i>Journal of Hazardous Materials</i> , 2011 , 186, 2068-74	12.8	42
37	Small-amplitude oscillatory shear magnetorheology of inverse ferrofluids. <i>Langmuir</i> , 2010 , 26, 9334-41	4	28
36	Suspensions of repulsive colloidal particles near the glass transition: Time and frequency domain descriptions. <i>Physical Review E</i> , 2010 , 82, 021406	2.4	1
35	Delaying lipid digestion through steric surfactant Pluronic F68: A novel in vitro approach. <i>Food Research International</i> , 2010 , 43, 1629-1633	7	49
34	Effect of particle shape in magnetorheology. <i>Journal of Rheology</i> , 2010 , 54, 1337-1362	4.1	111
33	On the use of magnetic nano and microparticles for lake restoration. <i>Journal of Hazardous Materials</i> , 2010 , 181, 375-81	12.8	61
32	Soft Elasto-Hydrodynamic Lubrication. <i>Tribology Letters</i> , 2010 , 39, 109-114	2.8	21
31	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	2.7	16
30	Physical properties of elongated magnetic particles: magnetization and friction coefficient anisotropies. <i>ChemPhysChem</i> , 2009 , 10, 1165-79	3.2	47

29	Dynamic rheology of sphere- and rod-based magnetorheological fluids. <i>Journal of Chemical Physics</i> , 2009 , 131, 194902	3.9	97
28	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	3.8	70
27	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	2.5	14
26	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, 520-4	9.3	30
25	Colloidal characterization of micron-sized rod-like magnetite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 319, 122-129	5.1	17
24	Influence of a magnetic field on the formation of magnetite particles via two precipitation methods. <i>Langmuir</i> , 2007 , 23, 3581-9	4	59
23	Effect of friction between particles in the dynamic response of model magnetic structures. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 867-76	9.3	18
22	Soft lubrication of model hydrocolloids. <i>Food Hydrocolloids</i> , 2006 , 20, 483-491	10.6	142
21	Viscosity Ratio Effect in the Emulsion Lubrication of Soft EHL Contact. <i>Journal of Tribology</i> , 2006 , 128, 795-800	1.8	54
20	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	1.4	41
19	Thermal transport in sheared electro- and magnetorheological fluids. <i>Physics of Fluids</i> , 2006 , 18, 023301	4.4	37
18	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	5.1	54
17	Preparation and sedimentation behavior in magnetic fields of magnetite-covered clay particles. <i>Langmuir</i> , 2005 , 21, 4410-9	4	74
16	Soft EHL Lubrication of Complex Multiphase Fluids 2005 , 589		
15	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	9.3	30
14	Lubrication properties of non-adsorbing polymer solutions in soft elastohydrodynamic (EHD) contacts. <i>Tribology International</i> , 2005 , 38, 515-526	4.9	84
13	Stabilization of magnetorheological suspensions by polyacrylic acid polymers. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 527-41	9.3	93
12	The Frictional Properties of Newtonian Fluids in Rolling/Sliding soft-EHL Contact. <i>Tribology Letters</i> , 2005 , 20, 273-286	2.8	132

11	Preparation of stable magnetorheological fluids based on extremely bimodal iron-magnetite suspensions. <i>Journal of Materials Research</i> , 2005 , 20, 874-881	2.5	89
10	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	2.3	17
9	Shear flow behavior of confined magnetorheological fluids at low magnetic field strengths. <i>Rheologica Acta</i> , 2004 , 44, 94-103	2.3	79
8	Rheological study of the stabilization of magnetizable colloidal suspensions by addition of silica nanoparticles. <i>Journal of Rheology</i> , 2003 , 47, 1093-1109	4.1	99
7	Permeability measurements in cobalt ferrite and carbonyl iron powders and suspensions. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 251, 100-108	2.8	80
6	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	1.1	11
5	Normal force study in concentrated carbonyl iron magnetorheological suspensions. <i>Journal of Rheology</i> , 2002 , 46, 1295-1303	4.1	49
4	Electrokinetic and viscoelastic properties of magnetorheological suspensions of cobalt ferrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 195, 181-188	5.1	14
3	Stability of Dispersions of Colloidal Nickel Ferrite Spheres. <i>Journal of Colloid and Interface Science</i> , 2001 , 242, 306-313	9.3	28
2	Effect of humic acid adsorption on the rheological properties of sodium montmorillonite suspensions. <i>Journal of Rheology</i> , 2001 , 45, 1159-1172	4.1	30
1	Stability of Cobalt Ferrite Colloidal Particles. Effect of pH and Applied Magnetic Fields. <i>Langmuir</i> , 2000 , 16, 7954-7961	4	90