Hyoung Jin Choi

List of Publications by Citations

618 papers	15,953 citations	61 h-index	93 g-index
646 ext. papers	17,408 ext. citations	3.6 avg, IF	7.17 L-index

#	Paper	IF	Citations
618	Magnetorheology: materials and application. *Soft Matter*, **2010**, 6, 5246	3.6	371
617	Electrorheology of polymers and nanocomposites. *Soft Matter*, **2009**, 5, 1562	3.6	269
616	Synthesis and Dispersion Characteristics of Multi-Walled Carbon Nanotube Composites with Poly(methyl methacrylate) Prepared by In-Situ Bulk Polymerization. *Macromolecular Rapid Communications*, **2003**, 24, 1070-1073	4.8	255
615	Shear stress analysis of a semiconducting polymer based electrorheological fluid system. *Polymer*, **2005**, 46, 11484-11488	3.9	218
614	Nanofibrous Membranes Prepared by Multiwalled Carbon Nanotube/Poly(methyl methacrylate) Composites. *Macromolecules*, **2004**, 37, 9899-9902	5.5	216
613	Synthesis and electrorheological properties of polyaniline-Na+-montmorillonite suspensions. *Macromolecular Rapid Communications*, **1999**, 20, 450-452	4.8	191
612	Electrorheological fluids: smart soft matter and characteristics. *Soft Matter*, **2012**, 8, 11961	3.6	188
611	Synthesis and Rheology of Intercalated Polystyrene/Na+-Montmorillonite Nanocomposites. *Macromolecular Rapid Communications*, **2002**, 23, 191-195	4.8	173
610	Synthesis and electrical properties of polymer composites with polyaniline nanoparticles. *Materials Science and Engineering C*, **2004**, 24, 15-18	8.3	169
609	Colloidal graphene oxide/polyaniline nanocomposite and its electrorheology. *Chemical Communications*, **2010**, 46, 5596-8	5.8	165
608	Enhanced Piezoelectric Properties of Electrospun Poly(vinylidene fluoride)/Multiwalled Carbon Nanotube Composites Due to High β-Phase Formation in Poly(vinylidene fluoride). *Journal of Physical Chemistry C*, **2013**, 117, 11791-11799	3.8	156
607	Magnetorheology of soft magnetic carbonyl iron suspension with single-walled carbon nanotube additive and its yield stress scaling function. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 351, 46-51	5.1	139
606	Carbon Nanotube-Adsorbed Polystyrene and Poly(methyl methacrylate) Microspheres. *Chemistry of Materials*, **2005**, 17, 4034-4037	9.6	138
605	Physical characteristics of magnetorheological suspensions and their applications. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 394-406	6.3	137
604	Graphene oxide coated core–shell structured polystyrene microspheres and their electrorheological characteristics under applied electric field. *Journal of Materials Chemistry*, **2011**, 21, 6916		136
603	Core-shell structured carbonyl iron microspheres prepared via dual-step functionality coatings and their magnetorheological response. *ACS Applied Materials & Interfaces*, **2011**, 3, 3487-95	9.5	135
602	Silica-graphene oxide hybrid composite particles and their electroresponsive characteristics. *Langmuir*, **2012**, 28, 7055-62	4	132

601	Emulsion polymerized polyaniline synthesized with dodecylbenzene-sulfonic acid and its electrorheological characteristics: Temperature effect. *Polymer*, **2007**, 48, 6622-6631	3.9	132
600	Preparation and Rheological Characteristics of Solvent-Cast Poly(ethylene oxide)/Montmorillonite Nanocomposites. *Macromolecular Rapid Communications*, **2001**, 22, 320-325	4.8	127
599	Rheology and polymer flooding characteristics of partially hydrolyzed polyacrylamide for enhanced heavy oil recovery. *Journal of Applied Polymer Science*, **2013**, 127, 4833-4839	2.9	125
598	Magnetorheological characterization of carbonyl iron based suspension stabilized by fumed silica. *Journal of Magnetism and Magnetic Materials*, **2004**, 282, 170-173	2.8	125
597	Enhanced oil recovery performance and viscosity characteristics of polysaccharide xanthan gum solution. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 741-745	6.3	124
596	Core-shell structured semiconducting PMMA/polyaniline snowman-like anisotropic microparticles and their electrorheology. *Langmuir*, **2010**, 26, 12849-54	4	116
595	Preparation and Interaction Characteristics of Organically Modified Montmorillonite Nanocomposite with Miscible Polymer Blend of Poly(Ethylene Oxide) and Poly(Methyl Methacrylate). *Chemistry of Materials*, **2002**, 14, 1989-1994	9.6	115
594	Pickering-emulsion-polymerized polystyrene/Fe2O3 composite particles and their magnetoresponsive characteristics. *Langmuir*, **2013**, 29, 4959-65	4	110
593	Magnetic carbonyl iron/natural rubber composite elastomer and its magnetorheology. *Composite Structures*, **2016**, 136, 106-112	5.3	106
592	Role of organic coating on carbonyl iron suspended particles in magnetorheological fluids. *Journal of Applied Physics*, **2005**, 97, 10Q912	2.5	106
591	Synthesis of core□shell structured PS/Fe3O4 microbeads and their magnetorheology. *Polymer*, **2009**, 50, 2290-2293	3.9	105
590	Sequential coating of magnetic carbonyliron particles with polystyrene and multiwalled carbon nanotubes and its effect on their magnetorheology. *ACS Applied Materials & Interfaces*, **2010**, 2, 54-60	9.5	104
589	Electrorheology of graphene oxide. *ACS Applied Materials & Interfaces*, **2012**, 4, 2267-72	9.5	100
588	Preparation and rheological characterization of intercalated polystyrene/organophilic montmorillonite nanocomposite. *Journal of Applied Polymer Science*, **2003**, 87, 2106-2112	2.9	93
587	Smart monodisperse polystyrene/polyaniline core□shell structured hybrid microspheres fabricated by a controlled releasing technique and their electro-responsive characteristics. *Journal of Materials Chemistry*, **2011**, 21, 17396		91
586	Bulk polymerized polystyrene in the presence of multiwalled carbon nanotubes. *Colloid and Polymer Science*, **2007**, 285, 593-598	2.4	89
585	Fabrication of semiconducting graphene oxide/polyaniline composite particles and their electrorheological response under an applied electric field. *Carbon*, **2012**, 50, 290-296	10.4	82
584	Electrorheological characteristics of phosphate cellulose-based suspensions. *Polymer*, **2001**, 42, 5005-5012	3.9	81

583	Magnetic composites of conducting polyaniline/nano-sized magnetite and their magnetorheology. *Materials Letters*, **2008**, 62, 2897-2899	3.3	80
582	Morphological and rheological characterization of multi-walled carbon nanotube/PLA/PBAT blend nanocomposites. *Polymer Bulletin*, **2009**, 63, 125-134	2.4	79
581	Fast and facile fabrication of a graphene oxide/titania nanocomposite and its electro-responsive characteristics. *Chemical Communications*, **2011**, 47, 12286-8	5.8	78
580	Silica nanoparticle decorated polyaniline nanofiber and its electrorheological response. *Soft Matter*, **2011**, 7, 2782	3.6	78
579	Characteristics and applications of magnetized water as a green technology. *Journal of Cleaner Production*, **2017**, 161, 908-921	10.3	76
578	Magnetic carbonyl iron nanoparticle based magnetorheological suspension and its characteristics. *Materials Letters*, **2009**, 63, 1350-1352	3.3	75
577	Electrorheology of Multiwalled Carbon Nanotube/Poly(methyl methacrylate) Nanocomposites. *Macromolecular Rapid Communications*, **2005**, 26, 1563-1566	4.8	74
576	Turbulent drag reduction and degradation of DNA. *Physical Review Letters*, **2002**, 89, 088302	7.4	73
575	Synthesis and electrorheological characteristics of SAN□lay composite suspensions. *Polymer*, **2000**, 41, 1229-1231	3.9	72
574	Preparation of polyaniline coated poly(methyl methacrylate) microsphere by graft polymerization and its electrorheology. *Polymer*, **2005**, 46, 1317-1321	3.9	71
573	Core□hell-structured silica-coated magnetic carbonyl iron microbead and its magnetorheology with anti-acidic characteristics. *Colloid and Polymer Science*, **2011**, 289, 1295-1298	2.4	70
572	Viscoelasticity of biodegradable polymer blends of poly(3-hydroxybutyrate) and poly(ethylene oxide). *Polymer*, **2001**, 42, 5737-5742	3.9	70
571	Magnetic field intensity effect on plane electric capacitor characteristics and viscoelasticity of magnetorheological elastomer. *Colloid and Polymer Science*, **2012**, 290, 1115-1122	2.4	69
570	Solidlike transition of melt-intercalated biodegradable polymer/clay nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 2052-2061	2.6	67
569	SO3H-dendrimer functionalized magnetic nanoparticles (Fe3O4@D NH (CH2)4SO3H): Synthesis, characterization and its application as a novel and heterogeneous catalyst for the one-pot synthesis of polyfunctionalized pyrans and polyhydroquinolines. *Polyhedron*, **2019**, 162, 129-141	2.7	66
568	Novel architecture of carbon nanotube decorated poly(methyl methacrylate) microbead vapour sensors assembled by spray layer by layer. *Journal of Materials Chemistry*, **2011**, 21, 4142		66
567	Magnetic carbonyl iron suspension with organoclay additive and its magnetorheological properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 377, 103-109	5.1	66
566	PREPARATION AND ELECTRO-THERMOCONDUCTIVE CHARACTERISTICS OF MAGNETORHEOLOGICAL SUSPENSIONS. *International Journal of Modern Physics B*, **2008**, 22, 5041-5064	1.1	66

565	Recent development of electro-responsive smart electrorheological fluids. *Soft Matter*, **2019**, 15, 3473-3486	3.4	65
564	Pickering emulsion-fabricated polystyrene–graphene oxide microspheres and their electrorheology. *Journal of Materials Chemistry C*, **2014**, 2, 7541	7.1	65
563	Magnetorheological characterization of carbonyl iron-organoclay suspensions. *IEEE Transactions on Magnetics*, **2005**, 41, 3745-3747	2	65
562	Magnetorheology of carbonyl-iron Suspensions with submicron-sized filler. *IEEE Transactions on Magnetics*, **2004**, 40, 3033-3035	2	63
561	Polymer blend/organoclay nanocomposite with poly(ethylene oxide) and poly(methyl methacrylate). *European Polymer Journal*, **2005**, 41, 679-685	5.2	63
560	Synthesis and electrorheological characterization of emulsion-polymerized dodecylbenzenesulfonic acid doped polyaniline-based suspensions. *Colloid and Polymer Science*, **2000**, 278, 894-898	2.4	63
559	Magnetite–polypyrrole core–shell structured microspheres and their dual stimuli-response under electric and magnetic fields. *Journal of Materials Chemistry C*, **2015**, 3, 3150-3158	7.1	61
558	Magnetorheology of Core–Shell Structured Carbonyl Iron/Polystyrene Foam Microparticles Suspension with Enhanced Stability. *Macromolecules*, **2015**, 48, 7311-7319	5.5	61
557	SYNTHESIS AND ELECTRORHEOLOGICAL CHARACTERIZATION OF POLYANILINE AND NA+-MONTMORILLONITE CLAY NANOCOMPOSITE. *International Journal of Modern Physics B*, **2001**, 15, 657-664	1.1	61
556	Searching for a Stable High-Performance Magnetorheological Suspension. *Advanced Materials*, **2018**, 30, e1704769	24	60
555	Crystallization behavior and mechanical properties of poly(ethylene oxide)/poly(L-lactide)/poly(vinyl acetate) blends. *Journal of Applied Polymer Science*, **2001**, 82, 3618-3626	2.9	60
554	Drag-reduction effectiveness of xanthan gum in a rotating disk apparatus. *Carbohydrate Polymers*, **2001**, 45, 61-68	10.3	60
553	Rheology and Physical Characteristics of Synthetic Biodegradable Aliphatic Polymer Blends Dispersed with MWNTs. *Macromolecular Materials and Engineering*, **2010**, 295, 320-328	3.9	59
552	Synthesis and electrorheology of camphorsulfonic acid doped polyaniline suspensions. *Colloid and Polymer Science*, **2001**, 279, 823-827	2.4	59
551	Fabrication of polyaniline coated iron oxide hybrid particles and their dual stimuli-response under electric and magnetic fields. *EXPRESS Polymer Letters*, **2015**, 9, 736-743	3.4	58
550	Mechanical degradation of dilute polymer solutions under turbulent flow. *Polymer*, **2000**, 41, 7611-7615	3.9	58
549	Microencapsulated polyaniline particles for electrorheological materials. *Journal of Materials Science Letters*, **2000**, 19, 533-535		58
548	Effect of Magnetic Nanoparticle Additive on Characteristics of Magnetorheological Fluid. *IEEE Transactions on Magnetics*, **2009**, 45, 4045-4048	2	57

547	Sonochemical preparation of polymer nanocomposites. *Molecules*, **2009**, 14, 2095-110	4.8	57
546	Effect of polymerization temperature on polyaniline based electrorheological suspensions. *Colloid and Polymer Science*, **1999**, 277, 73-76	2.4	57
545	Graphene oxide based smart fluids. *Soft Matter*, **2014**, 10, 6601-8	3.6	54
544	Modified silane-coated carbonyl iron/natural rubber composite elastomer and its magnetorheological performance. *Composite Structures*, **2017**, 160, 1020-1026	5.3	53
543	Soft magnetic carbonyl iron microsphere dispersed in grease and its rheological characteristics under magnetic field. *Colloid and Polymer Science*, **2011**, 289, 381-386	2.4	52
542	Two-layer coating with polymer and carbon nanotube on magnetic carbonyl iron particle and its magnetorheology. *Colloid and Polymer Science*, **2010**, 288, 359-363	2.4	52
541	Phosphorylation of potato starch and its electrorheological suspension. *Biomacromolecules*, **2005**, 6, 2182-8	6.9	52
540	Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. *Carbohydrate Polymers*, **2014**, 102, 537-42	10.3	51
539	The role of acidic m-cresol in polyaniline doped by camphorsulfonic acid. *Polymer*, **2009**, 50, 4372-4377	3.9	51
538	Core-shell structured Fe3O4@SiO2 nanoparticles fabricated by sol–gel method and their magnetorheology. *Colloid and Polymer Science*, **2016**, 294, 647-655	2.4	49
537	Carbon nanotube coated snowman-like particles and their electro-responsive characteristics. *Chemical Communications*, **2012**, 48, 136-8	5.8	49
536	Organic/inorganic hybrid of polyaniline/BaTiO3 composites and their electrorheological and dielectric characteristics. *Journal of Applied Polymer Science*, **2007**, 105, 1853-1860	2.9	49
535	Rheological study on poly-D(-)(3-hydroxybutyrate) and its blends with poly(ethylene oxide). *Polymer Engineering and Science*, **1995**, 35, 1636-1642	2.3	49
534	Core–shell-structured cross-linked poly(glycidyl methacrylate)-coated carbonyl iron microspheres and their magnetorheology. *Journal of Materials Science*, **2014**, 49, 1345-1352	4.3	48
533	Fabrication of multiwalled carbon nanotube-wrapped magnetic carbonyl iron microspheres and their magnetorheology. *Colloid and Polymer Science*, **2010**, 288, 79-84	2.4	48
532	Magnetorheological carbonyl iron particles doubly wrapped with polymer and carbon nanotube. *Journal of Applied Physics*, **2009**, 105, 07E703	2.5	47
531	Controllable fabrication of silica encapsulated soft magnetic microspheres with enhanced oxidation-resistance and their rheology under magnetic field. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 403, 133-138	5.1	46
530	Core-shell structured monodisperse poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonic acid) coated polystyrene microspheres and their electrorheological response. *Macromolecular Rapid Communications*, **2011**, 32, 881-6	4.8	46

529	Drag reduction characteristics of polysaccharide xanthan gum. *Macromolecular Rapid Communications*, **1998**, 19, 419-422	4.8	46
528	Effect of a hard magnetic particle additive on rheological characteristics of microspherical carbonyl iron-based magnetorheological fluid. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 506, 812-820	5.1	46
527	Enhanced magnetorheology of soft magnetic carbonyl iron suspension with hard magnetic Fe2O3 nanoparticle additive. *Colloid and Polymer Science*, **2015**, 293, 641-647	2.4	44
526	Celebrating Soft Matter's 10th anniversary: stimuli-responsive Pickering emulsion polymerized smart fluids. *Soft Matter*, **2015**, 11, 646-54	3.6	44
525	A simplified model for analyzing the flow behavior of electrorheological fluids containing silica nanoparticle-decorated polyaniline nanofibers. *Soft Matter*, **2012**, 8, 4659	3.6	44
524	An investigation of melt rheology and thermal stability of poly(lactic acid)/ poly(butylene succinate) nanocomposites. *Journal of Applied Polymer Science*, **2009**, 114, 2837-2847	2.9	44
523	Noncovalent self-assembly of carbon nanotube wrapped carbonyl iron particles and their magnetorheology. *Journal of Applied Physics*, **2008**, 103, 07A301	2.5	44
522	Effects of shear rate and particle concentration on rheological properties of magnetic particle suspensions. *Journal of Materials Science*, **2000**, 35, 889-894	4.3	44
521	Polyaniline nanoparticle-carbon nanotube hybrid network vapour sensors with switchable chemo-electrical polarity. *Nanotechnology*, **2010**, 21, 255501	3.4	43
520	Preparation and electrophoretic response of poly(methyl methacrylate-co-methacrylic acid) coated TiO2 nanoparticles for electronic paper application. *Current Applied Physics*, **2007**, 7, 349-351	2.6	43
519	A high-precision rotating disk apparatus for drag reduction characterization. *Polymer Testing*, **2000**, 20, 43-48	4.5	43
518	Facile fabrication of Pickering emulsion polymerized polystyrene/laponite composite nanoparticles and their electrorheology. *Journal of Colloid and Interface Science*, **2013**, 394, 108-14	9.3	42
517	Effect of Medium Oil on Magnetorheology of Soft Carbonyl Iron Particles. *IEEE Transactions on Magnetics*, **2012**, 48, 3442-3445	2	42
516	Electrorheologically intelligent polyaniline and its composites. *Macromolecular Research*, **2010**, 18, 99-112	2.9	42
515	Emulsion Polymerized Polystyrene/Montmorillonite Nanocomposite and its Viscoelastic Characteristics. *Journal of Macromolecular Science - Physics*, **2007**, 46, 341-354	1.4	42
514	Carbonyl iron particles dispersed in a polymer solution and their rheological characteristics under applied magnetic field. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 664-667	6.3	41
513	An experimental study on enhanced oil recovery utilizing nanoparticle ferrofluid through the application of a magnetic field. *Journal of Industrial and Engineering Chemistry*, **2018**, 58, 319-327	6.3	40
512	Facile and fast synthesis of polyaniline-coated poly(glycidyl methacrylate) core-shell microspheres and their electro-responsive characteristics. *Journal of Colloid and Interface Science*, **2013**, 402, 100-6	9.3	40

511	Fabrication of spherical Fe3O4 particles with a solvothermal method and their magnetorheological characteristics. *Journal of Industrial and Engineering Chemistry*, **2015**, 29, 129-133	6.3	40
510	Silica nanoparticle decorated conducting polyaniline fibers and their electrorheology. *Materials Letters*, **2010**, 64, 154-156	3.3	40
509	Dispersion-Polymerized Carbon Nanotube/Poly(methyl methacrylate) Composite Particles and their Electrorheological Characteristics. *Macromolecular Chemistry and Physics*, **2007**, 208, 514-519	2.6	40
508	Polyaniline/Fe composite nanofiber added softmagnetic carbonyl iron microsphere suspension and its magnetorheology. *Journal of Materials Chemistry C*, **2015**, 3, 1861-1868	7.1	39
507	Enhanced fracture toughness and mechanical properties of epoxy resin with rice husk-based nano-silica. *Polymer Science - Series A*, **2017**, 59, 437-444	1.2	38
506	Viscoelasticity and relaxation characteristics of polystyrene/clay nanocomposite. *Journal of Materials Science*, **2003**, 38, 1849-1852	4.3	38
505	Environmentally benign green composites based on epoxy resin/bacterial cellulose reinforced glass fiber: Fabrication and mechanical characteristics. *Polymer Testing*, **2017**, 61, 150-161	4.5	37
504	Electroactive response of mesoporous silica and its nanocomposites with conducting polymers. *Composites Science and Technology*, **2009**, 69, 2088-2092	8.6	37
503	DNA Induced Turbulent Drag Reduction and Its Characteristics. *Macromolecules*, **2003**, 36, 5348-5354	5.5	37
502	Viscoelastic characterization of semiconducting dodecylbenzenesulfonic acid doped polyaniline electrorheological suspensions. *Journal of Applied Polymer Science*, **2001**, 79, 108-114	2.9	37
501	Carbon nanotube coated magnetic carbonyl iron microspheres prepared by solvent casting method and their magneto-responsive characteristics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 412, 47-56	5.1	36
500	Effect of Clay on Thermal, Mechanical and Gas Barrier Properties of Biodegradable Poly(lactic acid)/Poly(butylene succinate) (PLA/PBS) Nanocomposites. *International Polymer Processing*, **2010**, 25, 5-14	1	36
499	Synthesis and electrorheological response of nano-sized laponite stabilized poly(methyl methacrylate) spheres. *Colloid and Polymer Science*, **2009**, 287, 745-749	2.4	36
498	Rheological analysis of magnetite added carbonyl iron based magnetorheological fluid. *Journal of Magnetism and Magnetic Materials*, **2017**, 444, 161-167	2.8	35
497	Stimuli-Responsive Polymers and Colloids under Electric and Magnetic Fields. *Polymers*, **2014**, 6, 2803-2818	4.9	35
496	Synthesis and characteristics of microcapsules containing electrophoretic particle suspensions. *Colloid and Polymer Science*, **2006**, 284, 813-816	2.4	35
495	Electrorheological characterization of polyaniline-coated poly(methyl methacrylate) suspensions. *Colloid and Polymer Science*, **2002**, 280, 1062-1066	2.4	35
494	Analysis of the flow behavior of electrorheological fluids with the aligned structure reformation. *Polymer*, **2011**, 52, 5695-5698	3.9	34

493	Universal drag reduction characteristics of polyisobutylene in a rotating disk apparatus. *Polymer*, **1999**, 40, 4527-4530	3.9	34
492	Fabrication of dual-coated graphene oxide nanosheets by polypyrrole and poly(ionic liquid) and their enhanced electrorheological responses. *Journal of Industrial and Engineering Chemistry*, **2019**, 69, 106-115	6.3	34
491	Synthesis of semiconducting poly(diphenylamine) particles and analysis of their electrorheological properties. *Polymer*, **2017**, 119, 40-49	3.9	33
490	Core-shell-structured monodisperse copolymer/silica particle suspension and its electrorheological response. *Langmuir*, **2014**, 30, 1729-34	4	33
489	Rectangular-Shaped Polyaniline Tubes Covered with Nanorods and their Electrorheology. *Macromolecular Chemistry and Physics*, **2011**, 212, 2300-2307	2.6	33
488	Synthesis and characterization of soluble polypyrrole and polypyrrole/organoclay nanocomposites. *Journal of Materials Science Letters*, **2003**, 22, 1299-1302		33
487	Preparation and Characterization of Phosphate Cellulose-Based Electrorheological Fluids. *Macromolecular Chemistry and Physics*, **2001**, 202, 521-526	2.6	33
486	Effect of micro/nano white bamboo fibrils on physical characteristics of epoxy resin reinforced composites. *Cellulose*, **2017**, 24, 5475-5486	5.5	32
485	Facile fabrication of core/shell structured SiO2/polypyrrole nanoparticles with surface modification and their electrorheology. *RSC Advances*, **2016**, 6, 56495-56502	3.7	31
484	Facile fabrication of self-assembled PMMA/graphene oxide composite particles and their electroresponsive properties. *Colloid and Polymer Science*, **2013**, 291, 955-962	2.4	31
483	Well controlled core/shell type polymeric microspheres coated with conducting polyaniline: fabrication and electrorheology. *RSC Advances*, **2011**, 1, 1026	3.7	31
482	Ordering Behavior of Layered Silicate Nanocomposites with a Cylindrical Triblock Copolymer. *Macromolecular Chemistry and Physics*, **2006**, 207, 444-455	2.6	31
481	Preparation and Characterization of Poly(Methyl Methacrylate) Coated TiO2 Nanoparticles. *Journal of Macromolecular Science - Physics*, **2006**, 45, 53-60	1.4	31
480	Synthesis and characterization of TiO2/polystyrene hybrid nanoparticles via admicellar polymerization. *Journal of Materials Science*, **2005**, 40, 3021-3024	4.3	31
479	Potential aspect of rice husk biomass in Australia for nanocrystalline cellulose production. *Chinese Journal of Chemical Engineering*, **2018**, 26, 465-476	3.2	30
478	Effect of CoFe2O4 nanoparticles on a carbonyl iron based magnetorheological suspension. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 537, 102-108	5.1	30
477	Polymer coated magnetite-based magnetorheological fluid and its potential clean procedure applications to oil production. *Journal of Cleaner Production*, **2018**, 171, 45-56	10.3	30
476	Static yield stress of a magnetorheological fluid containing Pickering emulsion polymerized Fe2O3/polystyrene composite particles. *Journal of Colloid and Interface Science*, **2016**, 463, 272-8	9.3	30

475	Urchin-like polyaniline microspheres fabricated from self-assembly of polyaniline nanowires and their electro-responsive characteristics. *Chemical Engineering Journal*, **2014**, 235, 186-190	14.7	30
474	Electrorheological and magnetorheological response of polypyrrole/magnetite nanocomposite particles. *Colloid and Polymer Science*, **2013**, 291, 1781-1786	2.4	30
473	Fabrication of semiconducting polyaniline/nano-silica nanocomposite particles and their enhanced electrorheological and dielectric characteristics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 381, 17-22	5.1	30
472	Polymeric nanobead coated carbonyl iron particles and their magnetic property. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 4190-4193	1.6	30
471	Intercalated polypropylene/clay nanocomposite and its physical characteristics. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1375-1378	3.9	30
470	Linear viscoelasticity of semiconducting polyaniline based electrorheological suspensions. *Journal of Materials Science*, **2004**, 39, 1377-1382	4.3	30
469	Electrorheological characterization of semiconducting polyaniline suspension. *Polymer Engineering and Science*, **1999**, 39, 493-499	2.3	30
468	Amphicharge-Storable Pyropolymers Containing Multitiered Nanopores. *Advanced Energy Materials* , **2017**, 7, 1700629	21.8	29
467	Magnetorheological characteristics of carbonyl iron microparticles with different shapes **2019**, 31, 41-47		29
466	Magnetic Particle Filled Elastomeric Hybrid Composites and Their Magnetorheological Response. *Materials*, **2018**, 11,	3.5	29
465	Optically transparent electrorheological fluid with urea-modified silica nanoparticles and its haptic display application. *Journal of Colloid and Interface Science*, **2013**, 404, 56-61	9.3	29
464	Synthesized palygorskite/polyaniline nanocomposite particles by oxidative polymerization and their electrorheology. *Applied Clay Science*, **2015**, 107, 165-172	5.2	29
463	Synthetic aliphatic biodegradable poly(butylene succinate)/clay nanocomposite foams with high blowing ratio and their physical characteristics. *Polymer Engineering and Science*, **2011**, 51, 1316-1324	2.3	29
462	COLE-COLE ANALYSIS ON DIELECTRIC SPECTRA OF ELECTRORHEOLOGICAL SUSPENSIONS. *International Journal of Modern Physics B*, **2007**, 21, 4974-4980	1.1	29
461	Preparation and Rheological Characteristics of Ethylene-Vinyl Acetate Copolymer/Organoclay Nanocomposites. *Journal of Macromolecular Science - Physics*, **2007**, 46, 261-273	1.4	29
460	Polyaniline microsphere encapsulated by poly(methyl methacrylate) and investigation of its electrorheological properties. *Colloid and Polymer Science*, **2003**, 282, 198-202	2.4	29
459	Micron-Size White Bamboo Fibril-Based Silane Cellulose Aerogel: Fabrication and Oil Absorbent Characteristics. *Materials*, **2019**, 12,	3.5	28
458	Preparation and physical characteristics of epoxy resin/ bacterial cellulose biocomposites. *Polymer Bulletin*, **2018**, 75, 2607-2625	2.4	28

457	Eco-friendly mass production of poly(p-phenylenediamine)/graphene oxide nanoplatelet composites and their electrorheological characteristics. *Composites Science and Technology*, **2016**, 122, 36-41	8.6	28
456	Enhanced magnetorheological performance of carbonyl iron/natural rubber composite elastomer with gamma-ferrite additive. *Colloid and Polymer Science*, **2018**, 296, 1609-1613	2.4	28
455	Silica-coated carbonyl iron microsphere based magnetorheological fluid and its damping force characteristics. *Smart Materials and Structures*, **2013**, 22, 065022	3.4	28
454	Core-Shell Structured Electro- and Magneto-Responsive Materials: Fabrication and Characteristics. *Materials*, **2014**, 7, 7460-7471	3.5	28
453	Electrorheological activity generation by graphene oxide coating on low-dielectric silica particles. *RSC Advances*, **2014**, 4, 62644-62650	3.7	28
452	Core–shell structured graphene oxide-adsorbed anisotropic poly(methyl methacrylate) microparticles and their electrorheology. *RSC Advances*, **2013**, 3, 11723	3.7	28
451	Rheology of organoclay suspension. *Colloid and Polymer Science*, **2011**, 289, 1119-1125	2.4	28
450	Effects of surface treatment on magnetic carbonyl iron/polyaniline microspheres and their magnetorheological study. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 531, 48-55	5.1	28
449	Carbonyl iron suspension with halloysite additive and its magnetorheology. *Applied Clay Science*, **2013**, 80-81, 366-371	5.2	27
448	Pickering emulsion polymerization of core–shell-structured polyaniline@SiO2 nanoparticles and their electrorheological response. *Colloid and Polymer Science*, **2012**, 290, 855-860	2.4	27
447	Electrorheology of a mesoporous silica having conducting polypyrrole inside expanded pores. *Microporous and Mesoporous Materials*, **2010**, 130, 338-343	5.3	27
446	Characterization of drag reducing guar gum in a rotating disk flow. *Journal of Applied Polymer Science*, **2002**, 83, 2938-2944	2.9	27
445	Miscibility of biodegradable synthetic aliphatic polyester and poly(epichlorohydrin) blends. *Polymer* , **1999**, 40, 6873-6876	3.9	27
444	Microcrystalline cellulose added carbonyl iron suspension and its magnetorheology. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 514, 161-167	5.1	26
443	High-Performance Magnetorheological Suspensions of Pickering-Emulsion-Polymerized Polystyrene/FeO Particles with Enhanced Stability. *Langmuir*, **2018**, 34, 2807-2814	4	26
442	Core–shell structured poly(2-ethylaniline) coated crosslinked poly(methyl methacrylate) nanoparticles by graft polymerization and their electrorheology. *RSC Advances*, **2014**, 4, 28511	3.7	26
441	Analysis of Gas Permeability Characteristics of Poly(Lactic Acid)/Poly(Butylene Succinate) Nanocomposites. *Journal of Nanomaterials*, **2012**, 2012, 1-11	3.2	26
440	Fabrication of semiconducting polyaniline-wrapped halloysite nanotube composite and its electrorheology. *Colloid and Polymer Science*, **2012**, 290, 1743-1748	2.4	26

439	Fabrication of Carbonyl Iron Embedded Polycarbonate Composite Particles and Magnetorheological Characterization. *IEEE Transactions on Magnetics*, **2009**, 45, 2507-2510	2	26
438	Nano-Rheology of Single Unentangled Polymeric Lubricant Films. *Macromolecular Theory and Simulations*, **2008**, 17, 454-459	1.5	26
437	Universal yield stress function for biocompatible chitosan based-electrorheological fluid: Effect of particle concentration. *Polymer*, **2005**, 46, 12359-12365	3.9	26
436	Micro-fibril cellulose as a filler for glass fiber reinforced unsaturated polyester composites: Fabrication and mechanical characteristics. *Macromolecular Research*, **2018**, 26, 54-60	1.9	26
435	Facile Fabrication of Chemically Grafted Graphene Oxide–Poly(glycidyl methacrylate) Composite Microspheres and Their Electrorheology. *Macromolecular Chemistry and Physics*, **2013**, 214, 1415-1422	2.6	25
434	Synthetic Aliphatic Biodegradable Poly(Butylene Succinate)/MWNT Nanocomposite Foams and Their Physical Characteristics. *Journal of Macromolecular Science - Physics*, **2011**, 50, 1171-1184	1.4	25
433	Preparation and interaction characteristics of exfoliated ABS/organoclay nanocomposite. *Polymer Engineering and Science*, **2010**, 50, 504-512	2.3	25
432	Novel Magnetic Composite Particles of Carbonyl Iron Embedded in Polystyrene and Their Magnetorheological Characteristics. *IEEE Transactions on Magnetics*, **2008**, 44, 4533-4536	2	25
431	Multi-walled carbon nanotube/polystyrene composites prepared by in-situ bulk sonochemical polymerization. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3400-3	1.3	25
430	Formation of Two-Dimensional Array of Multiwalled Carbon Nanotubes in Polystyrene/Poly(methyl methacrylate) Thin Film. *Macromolecules*, **2005**, 38, 10623-10626	5.5	25
429	Shear Stress and Dielectric Characteristics of Polyaniline/TiO2 Composite-Based Electrorheological Fluid. *Journal of Macromolecular Science - Physics*, **2006**, 45, 923-932	1.4	25
428	Effect of a reactive-type flame retardant on rheological and mechanical properties of PC/ABS blends. *Journal of Materials Science*, **2003**, 38, 1485-1491	4.3	25
427	MAGNETORHEOLOGICAL CHARACTERIZATION OF ORGANOCLAY ADDED CARBONYL-IRON SUSPENSIONS. *International Journal of Modern Physics B*, **2005**, 19, 1142-1148	1.1	25
426	Effects of acrylonitrile content on PC/ABS alloy systems with a flame retardant. *Journal of Applied Polymer Science*, **2000**, 75, 417-423	2.9	25
425	Simultaneous improvement of the fracture toughness and mechanical characteristics of amine-functionalized nano/micro glass fibril-reinforced epoxy resin. *Polymer Testing*, **2018**, 71, 200-208	4.5	25
424	Hydrothermal fabrication of octahedral-shaped Fe3O4 nanoparticles and their magnetorheological response. *Journal of Applied Physics*, **2015**, 117, 17E708	2.5	24
423	Recent progress in smart polymer composite particles in electric and magnetic fields. *Polymer International*, **2013**, 62, 147-151	3.3	24
422	Applications of Water-Soluble Polymers in Turbulent Drag Reduction. *Processes*, **2017**, 5, 24	2.9	24

421	Magnetorheology of core–shell typed dual-coated carbonyl iron particle fabricated by a sol–gel and self-assembly process. *Materials Research Bulletin*, **2015**, 69, 92-97	5.1	24
420	Effect of polymer–surfactant interaction on its turbulent drag reduction. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 391, 125-129	5.1	24
419	Atom transfer radical polymerized PMMA/magnetite nanocomposites and their magnetorheology. *Colloid and Polymer Science*, **2009**, 287, 501-504	2.4	24
418	Polyhedral oligomeric silsesquioxane and polyethylene nanocomposites and their physical characteristics. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 189-192	6.3	24
417	Effect of salt on turbulent drag reduction of xanthan gum. *Carbohydrate Polymers*, **2015**, 121, 342-7	10.3	23
416	Additive role of attapulgite nanoclay on carbonyl iron-based magnetorheological suspension. *Colloid and Polymer Science*, **2015**, 293, 89-95	2.4	23
415	Cellulose-Based Smart Fluids under Applied Electric Fields. *Materials*, **2017**, 10,	3.5	23
414	Enhancement of Interlaminar Fracture Toughness of Carbon Fiber/Epoxy Composites Using Silk Fibroin Electrospun Nanofibers. *Polymer-Plastics Technology and Engineering*, **2016**, 55, 1048-1056		23
413	Synthesis of hollow magnetite nanoparticles via self-assembly and their magnetorheological properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 535, 16-23	5.1	23
412	Pickering emulsion polymerized poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)/polystyrene composite particles and their electric stimuli-response. *RSC Advances*, **2015**, 5, 72387-72393	3.7	22
411	Electric Field-Responsive Mesoporous Suspensions: A Review. *Nanomaterials*, **2015**, 5, 2249-2267	5.4	22
410	Carbon nanotube-coated silicated soft magnetic carbonyl iron microspheres and their magnetorheology. *Journal of Applied Physics*, **2012**, 111, 07B502	2.5	22
409	Nano-sized Fe soft-magnetic particle and its magnetorheology. *Colloid and Polymer Science*, **2011**, 289, 79-83	2.4	22
408	Fabrication and magnetorheological property of core/shell structured magnetic composite particle encapsulated with cross-linked poly(methyl methacrylate). *Materials Letters*, **2009**, 63, 2178-2180	3.3	22
407	Polymer-coated magnetic carbonyl iron microparticles and their magnetorheological characteristics. *Korean Journal of Chemical Engineering*, **2010**, 27, 716-722	2.8	22
406	Intercalated conducting polyaniline–clay nanocomposites and their electrical characteristics. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1383-1385	3.9	22
405	Mechanical degradation of polyisobutylene under turbulent flow. *Colloid and Polymer Science*, **2002**, 280, 779-782	2.4	22
404	Physical and electroresponsive characteristics of the intercalated styrene-acrylonitrile copolymer/clay nanocomposite under applied electric fields. *Journal of Applied Polymer Science*, **2003**, 89, 821-827	2.9	22

403	Biodegradable aliphatic polyester-poly (epichlorohydrin) blend/organoclay nanocomposites; synthesis and rheological characterization. *Journal of Materials Science*, **2005**, 40, 3981-3985	4.3	22
402	Electrorheological Semi-Active Damper: Polyaniline Based ER System. *Journal of Intelligent Material Systems and Structures*, **2002**, 13, 509-513	2.3	22
401	Seeded swelling polymerized sea urchin-like core–shell typed polystyrene/polyaniline particles and their electric stimuli-response. *RSC Advances*, **2015**, 5, 81546-81553	3.7	21
400	Monodisperse poly(2-methylaniline) coated polystyrene core-shell microspheres fabricated by controlled releasing process and their electrorheological stimuli-response under electric fields. *Journal of Colloid and Interface Science*, **2015**, 440, 9-15	9.3	21
399	Fabrication of self-assembled polyaniline tubes and their electrorheological characteristics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 530, 227-234	5.1	21
398	Modeling and analysis of an electrorheological flow behavior containing semiconducting graphene oxide/polyaniline composite particles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 457, 363-367	5.1	21
397	Polymeric colloidal magnetic composite microspheres and their magneto-responsive characteristics. *Macromolecular Research*, **2012**, 20, 1211-1218	1.9	21
396	Magnetic Carbonyl Iron Particle Dispersed in Viscoelastic Fluid and Its Magnetorheological Property. *IEEE Transactions on Magnetics*, **2011**, 47, 3173-3176	2	21
395	Pentacene thin-film transistor with poly(methyl methacrylate-co-methacrylic acid)/TiO2 nanocomposite gate insulator. *Thin Solid Films*, **2009**, 518, 588-590	2.2	21
394	Polymer turbulent drag reduction near the theta point. *Europhysics Letters*, **2007**, 80, 58003	1.6	21
393	Comment on "Preparation and Enhanced Electrorheological Activity of TiO2 Doped with Chromium Ion". *Chemistry of Materials*, **2006**, 18, 2771-2772	9.6	21
392	Synthesis and electrorheology of aniline/pyrrole copolymer. *Journal of Materials Science*, **2004**, 39, 1883-1885	4.9	21
391	Turbulent Drag Reduction Efficiency and Mechanical Degradation of Poly(Acrylamide). *Journal of Macromolecular Science - Physics*, **2004**, 43, 507-518	1.4	21
390	Synthesis and Electrorheology of Semiconducting Poly(naphthalene quinone) Radical Particles. *Macromolecular Chemistry and Physics*, **2002**, 203, 1135	2.6	21
389	Electrorheology of chitosan polysaccharide suspensions in soybean oil. *Colloid and Polymer Science*, **2003**, 281, 1196-1200	2.4	21
388	Polyaniline and its modification for electroresponsive material under applied electric fields. *Polymers for Advanced Technologies*, **2005**, 16, 352-356	3.2	21
387	Core–shell structured mesoporous magnetic nanoparticles and their magnetorheological response. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 524, 79-86	5.1	20
386	Core–shell structured semiconducting poly(diphenylamine)-coated polystyrene microspheres and their electrorheology. *Polymer*, **2017**, 131, 120-131	3.9	20

385	Graphene oxide/poly(2-methylaniline) composite particle suspension and its electro-response. *Materials Chemistry and Physics*, **2015**, 153, 443-449	4.4	20
384	Fabrication and stimuli response of rice husk-based microcrystalline cellulose particle suspension under electric fields. *Cellulose*, **2016**, 23, 185-197	5.5	20
383	Fabrication of adduct filled glass fiber/epoxy resin laminate composites and their physical characteristics. *Polymer Bulletin*, **2016**, 73, 1373-1391	2.4	20
382	New analysis of yield stress on giant electrorheological fluids. *Colloid and Polymer Science*, **2012**, 290, 189-192	2.4	20
381	Sulfonated polystyrene nanoparticles coated with conducting polyaniline and their electro-responsive suspension characteristics under electric fields. *Polymer*, **2017**, 127, 174-181	3.9	20
380	Fe3O4 nanoparticle-embedded polystyrene composite particles fabricated via a Shirasu porous glass membrane technique and their magnetorheology. *Polymer*, **2017**, 125, 21-29	3.9	20
379	Synthesis of poly(methyl methacrylate)/graphene oxide nanocomposite particles via Pickering emulsion polymerization and their viscous response under an electric field. *Macromolecular Research*, **2017**, 25, 565-571	1.9	20
378	Role of Bio-Based Polymers on Improving Turbulent Flow Characteristics: Materials and Application. *Polymers*, **2017**, 9,	4.5	20
377	Fabrication and Physical Characterization of Biodegradable Poly(butylene succinate)/Carbon Nanofiber Nanocomposite Foams. *Journal of Macromolecular Science - Physics*, **2010**, 50, 100-110	1.4	20
376	Synthesis of microcapsule containing oil phase via in-situ polymerization. *Journal of Materials Science*, **2005**, 40, 1031-1033	4.3	20
375	Synthesis and electrorheological characterization of emulsion polymerized SAN-clay nanocomposite suspensions. *Macromolecular Symposia*, **2000**, 155, 229-237	0.8	20
374	Conducting Polymer/Clay Nanocomposites and Their Applications. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1559-1581	1.3	20
373	Magnetorheological Elastomers: Fabrication, Characteristics, and Applications. *Materials*, **2020**, 13,	3.5	20
372	Fabrication of phosphate microcrystalline rice husk based cellulose particles and their electrorheological response. *Carbohydrate Polymers*, **2017**, 165, 247-254	10.3	19
371	Swelling-diffusion-interfacial polymerized core-shell typed polystyrene/poly(3, 4-ethylenedioxythiophene) microspheres and their electro-responsive characteristics. *Polymer*, **2017**, 115, 137-145	3.9	19
370	Fabrication of natural rubber/epoxidized natural rubber/nanosilica nanocomposites and their physical characteristics. *Macromolecular Research*, **2015**, 23, 284-290	1.9	19
369	Self-standing and shape-memorable UV-curing epoxy polymers for three-dimensional (3D) continuous-filament printing. *Journal of Materials Chemistry C*, **2018**, 6, 2996-3003	7.1	19
368	Core-Shell Structured Polystyrene Coated Carbonyl Iron Microspheres and their Magnetorheology. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	19

367	Graphene oxide added carbonyl iron microsphere system and its magnetorheology under applied magnetic fields. *Journal of Applied Physics*, **2012**, 111, 07E724	2.5	19
366	A review on melt-state viscoelastic properties of polymer nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8421-49	1.3	19
365	Core-shell typed polymer coated-carbonyl iron suspensions and their magnetorheology. *Journal of Physics: Conference Series*, **2009**, 149, 012078	0.3	19
364	Miscibility of biodegradable aliphatic polyester and poly(vinyl acetate) blends. *Journal of Applied Polymer Science*, **2000**, 77, 1348-1352	2.9	19
363	Electrorheological characteristics of polyaniline and its copolymer suspensions with ionic and nonionic substituents. *Colloid and Polymer Science*, **2000**, 278, 61-64	2.4	19
362	Fe3O4/sepiolite magnetic composite particles and their magneto- responsive characteristics. *Colloid and Polymer Science*, **2018**, 296, 11-19	2.4	19
361	Magnetostrictive and viscoelastic characteristics of polyurethane-based magnetorheological elastomer. *Journal of Industrial and Engineering Chemistry*, **2019**, 73, 128-133	6.3	18
360	Pickering emulsion polymerized smart magnetic poly(methyl methacrylate)/Fe2O3 composite particles and their stimulus-response. *RSC Advances*, **2015**, 5, 23094-23100	3.7	18
359	Improvement of the mode I interlaminar fracture toughness of glass fiber/epoxy composites using polystyrene electrospun nanofibres. *Polymer Bulletin*, **2018**, 75, 5089-5102	2.4	18
358	Stimuli-responsive polyaniline coated silica microspheres and their electrorheology. *Smart Materials and Structures*, **2016**, 25, 055020	3.4	18
357	Facile synthesis of polyaniline nanotubes and their enhanced stimuli-response under electric fields. *RSC Advances*, **2015**, 5, 11905-11912	3.7	18
356	Multi-Walled Carbon Nanotube/Biodegradable Poly(butyleneadipate-co-butyleneterephthalate) Nanocomposites and Their Physical Characteristics. *Journal of Macromolecular Science - Physics*, **2012**, 51, 125-133	1.4	18
355	Structures of Polyaniline Bases: Semi-Empirical Computations. *Macromolecular Theory and Simulations*, **2009**, 18, 287-298	1.5	18
354	Effects of medium oil on electroresponsive characteristics of chitosan suspensions. *Colloid and Polymer Science*, **2009**, 287, 583-589	2.4	18
353	Coating of magnetic particle with polystyrene and its magnetorheological characterization. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 4178-4181	1.6	18
352	Field Test on Vibration Control of Vehicle Suspension System Featuring ER Shock Absorbers. *Journal of Intelligent Material Systems and Structures*, **2007**, 18, 1169-1174	2.3	18
351	Effect of Additive-added Epoxy on Mechanical and Dielectric Characteristics of Glass Fiber Reinforced Epoxy Composites. *Porrime*, **2014**, 38, 726-734	1	18
350	Smart and Functional Conducting Polymers: Application to Electrorheological Fluids. *Molecules*, **2018**, 23,	4.8	18

349	Brake performance of core□shell structured carbonyl iron/silica based magnetorheological suspension. *Journal of Magnetism and Magnetic Materials*, **2014**, 367, 69-74	2.8	17
348	Fabrication of ammonium persulfate coated silica microsphere via chemical grafting and its electrorheology. *Journal of Materials Science*, **2014**, 49, 2618-2623	4.3	17
347	Turbulent drag reduction characteristics of poly(acrylamide-co-acrylic acid) in a rotating disk apparatus. *Colloid and Polymer Science*, **2011**, 289, 1821-1827	2.4	17
346	Preparation and physical characterization of polyacrylamide coated magnetite particles. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 4182-4185	1.6	17
345	Electrorheological characteristics of conducting polypyrrole/swollen MCM-41 nanocomposite. *Journal of Industrial and Engineering Chemistry*, **2008**, 14, 18-21	6.3	17
344	Synthesis and electrorheological characterization of carbonaceous particle suspensions. *Journal of Materials Science Letters*, **1999**, 18, 1445-1447		17
343	Fabrication of dopamine grafted polyaniline/carbonyl iron core-shell typed microspheres and their magnetorheology. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 500, 137-145	5.1	17
342	Graphene/graphene oxide: A new material for electrorheological and magnetorheological applications. *Journal of Intelligent Material Systems and Structures*, **2015**, 26, 1826-1835	2.3	16
341	Hollow submicron-sized spherical conducting polyaniline particles and their suspension rheology under applied electric fields. *Polymer*, **2018**, 140, 80-88	3.9	16
340	Emulsion-polymerized polyindole nanoparticles and their electrorheology. *Journal of Applied Polymer Science*, **2018**, 135, 46384	2.9	16
339	Mechanical degradation of water-soluble acrylamide copolymer under a turbulent flow: Effect of molecular weight and temperature. *Journal of Industrial and Engineering Chemistry*, **2016**, 33, 156-161	6.3	16
338	Effect of octahedral typed iron oxide particles on magnetorheological behavior of carbonyl iron dispersion. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 555, 685-690	5.1	16
337	Highly Tough, Biocompatible, and Magneto-Responsive FeO/Laponite/PDMAAm Nanocomposite Hydrogels. *Scientific Reports*, **2019**, 9, 15024	4.9	16
336	Polypyrrole-wrapped halloysite nanocomposite and its rheological response under electric fields. *Journal of Materials Science*, **2014**, 49, 7309-7316	4.3	16
335	Thermodynamic interaction and mechanical characteristics of Nylon 6 and polyhedral oligomeric silsesquioxane nanohybrids. *Journal of Materials Science*, **2012**, 47, 308-314	4.3	16
334	Polymeric Nanoparticle-Coated Pickering Emulsion-Synthesized Conducting Polyaniline Hybrid Particles and Their Electrorheological Study. *ACS Applied Materials & Interfaces*, **2017**, 9, 44811-44819	8.5	16
333	Turbulent Drag Reduction with Polymers in Rotating Disk Flow. *Polymers*, **2015**, 7, 1279-1298	4.5	16
332	Magnetorheology of suspensions based on graphene oxide coated or added carbonyl iron microspheres and sunflower oil. *Journal of Applied Physics*, **2014**, 116, 153508	2.5	16

331	Conducting Material-incorporated Electrorheological Fluids: Core-shell Structured Spheres. *Australian Journal of Chemistry*, **2012**, 65, 1195	1.2	16
330	Ultrasonically prepared polystyrene/multi-walled carbon nanotube nanocomposites. *Journal of Materials Science*, **2013**, 48, 3088-3096	4.3	16
329	Carboxylic acid functionalized MWNT coated poly(methyl methacrylate) microspheres and their electroresponse. *Diamond and Related Materials*, **2011**, 20, 275-278	3.5	16
328	Miniemulsion fabricated Fe3O4/poly(methyl methacrylate) composite particles and their magnetorheological characteristics. *Journal of Applied Physics*, **2010**, 107, 09A506	2.5	16
327	Synthesis and electrorheological characteristics of polyaniline/organoclay nanoparticles via Pickering emulsion polymerization. *Smart Materials and Structures*, **2010**, 19, 124002	3.4	16
326	Novel carbonyl iron/polystyrene (CI/PS) composites synthesized via solvent casting and their magnetorheology. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 4186-4189	1.6	16
325	Preparation and Physical Characterization of Polyepichlorohydrin Elastomer/Clay Nanocomposites. *Journal of Macromolecular Science - Physics*, **2003**, 42, 1197-1208	1.4	16
324	EFFECT OF IONIC AND NONIONIC SUBSTITUENTS ON THE ELECTRORHEOLOGICAL CHARACTERISTICS OF POLYANILINE DERIVATIVES. *International Journal of Modern Physics B*, **2001**, 15, 988-995	1.1	16
323	Universal drag reduction characteristics of saline water-soluble poly(ethylene oxide) in a rotating disk apparatus. *Colloid and Polymer Science*, **2000**, 278, 701-705	2.4	16
322	Effect of surface treatment on magnetorheological characteristics of core-shell structured soft magnetic carbonyl iron particles. *Colloid and Polymer Science*, **2015**, 293, 2647-2654	2.4	15
321	Improvement the mode I interlaminar fracture toughness of glass fiber reinforced phenolic resin by using epoxidized soybean oil. *Polymer Bulletin*, **2018**, 75, 4769-4782	2.4	15
320	Effect of particle size and crosslinking on the toughening of core-shell-type rubber-modified poly(lactic acid) composites. *Polymer Testing*, **2018**, 65, 440-449	4.5	15
319	Core/Shell Polystyrene/Magnetite Hybrid Nanoparticles Fabricated by Pickering Emulsion Polymerization and Their Magnetorheological Response. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700408	2.6	15
318	Suspensions of Hollow Polydivinylbenzene Nanoparticles Decorated with Fe3O4 Nanoparticles as Magnetorheological Fluids for Microfluidics Applications. *ACS Applied Nano Materials*, **2019**, 2, 6939-6947	5.6	15
317	The comparison between the effects of solvent casting and melt intercalation mixing processes on different characteristics of polylactide-nanographite platelets composites. *Polymer Engineering and Science*, **2015**, 55, 1560-1570	2.3	15
316	Micromechanical deformation processes in PA/layered silicate nanocomposites: Correlation of structure and properties. *Polymer Engineering and Science*, **2007**, 47, 1235-1245	2.3	15
315	Polystyrene-b-Poly(Ethylene-r-butylene)-b-Polystyrene Triblock Copolymer/Organoclay Nanocomposites and Their Phase Characteristics. *Journal of Macromolecular Science - Physics*, **2004**, 43, 577-589	1.4	15
314	Synthesis and electrorheological characteristics of microencapsulated conducting polymer. *Designed Monomers and Polymers*, **2004**, 7, 101-110	3.1	15

313	Viscoelasticity and solution viscosity of perfluoropolyether lubricants. *Tribology International*, **2005**, 38, 682-686	4.9	15
312	Effect of Turbulent Flow on Coil-Globule Transition of DNA. *Macromolecular Rapid Communications*, **2005**, 26, 1237-1240	4.8	15
311	Synthesis and electrorheological characteristics of polyaniline@attapulgite nanoparticles via Pickering emulsion polymerization. *Materials Letters*, **2017**, 204, 42-44	3.3	15
310	Thermal, Mechanical, and Rheological Characterization of Polylactic Acid/Halloysite Nanotube Nanocomposites. *Journal of Macromolecular Science - Physics*, **2016**, 55, 680-692	1.4	15
309	Tribological and rheological tests of core-shell typed carbonyl iron/polystyrene particle-based magnetorheological fluid. *Journal of Industrial and Engineering Chemistry*, **2018**, 68, 342-349	6.3	15
308	Fabrication and magnetic stimuli-response of polydopamine-coated core–shell structured carbonyl iron microspheres. *Colloid and Polymer Science*, **2016**, 294, 329-337	2.4	14
307	Suspension Rheology and Magnetorheological Finishing Characteristics of Biopolymer-Coated Carbonyliron Particles. *Industrial & Engineering Chemistry Research*, **2017**, 56, 2416-2424	3.9	14
306	Synthesis of self-assembled rectangular-shaped polyaniline nanotubes and their physical characteristics. *Journal of Industrial and Engineering Chemistry*, **2017**, 47, 51-55	6.3	14
305	Fabrication of electric-stimuli responsive polyaniline/laponite composite and its viscoelastic and dielectric characteristics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 482, 670-677	5.1	14
304	Fabrication and viscoelastic characteristics of waste tire rubber based magnetorheological elastomer. *Smart Materials and Structures*, **2016**, 25, 115026	3.4	14
303	Synthesis of kenaf cellulose carbamate and its smart electric stimuli-response. *Carbohydrate Polymers*, **2016**, 137, 693-700	10.3	14
302	Rheological analysis of graphene oxide coated anisotropic PMMA microsphere based electrorheological fluid from Couette flow geometry. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 172-177	6.3	14
301	Ultrathin polydimethylsiloxane-coated carbonyl iron particles and their magnetorheological characteristics. *Colloid and Polymer Science*, **2012**, 290, 1093-1098	2.4	14
300	PMMA coated carbonyl iron microbeads and their magnetic characteristics. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 4198-4201	1.6	14
299	Comment on "Preparation and electrorheological property of rare earth modified amorphous Ba(x)Sr(1-x)TiO3 gel electrorheological fluid". *Journal of Colloid and Interface Science*, **2006**, 295, 291-3	9.3	14
298	Synthesis and characterization of polysaccharide phosphates based electrorheological fluids. *Materials Research Innovations*, **2003**, 7, 161-166	1.9	14
297	Preparation and mechanical characteristics of poly(methylaniline) based electrorheological fluid. *Journal of Applied Polymer Science*, **2005**, 96, 1924-1929	2.9	14
296	ELECTRORHEOLOGICAL BEHAVIOR OF CARBONACEOUS PARTICLE-BASED SUSPENSIONS. *International Journal of Modern Physics B*, **2001**, 15, 634-640	1.1	14

295	Fe□a alloy based magnetorheological fluid and its viscoelastic characteristics. *Journal of Industrial and Engineering Chemistry*, **2020**, 82, 433-438	6.3	14
294	Fabrication of smart magnetite/reduced graphene oxide composite nanoparticles and their magnetic stimuli-response. *Journal of Colloid and Interface Science*, **2016**, 481, 194-200	9.3	14
293	Synthesis of Smart Poly(diphenylamine)/Magnetic Particle Composites and Their Electric/Magnetic Stimuli-Response. *Macromolecular Research*, **2018**, 26, 667-670	1.9	14
292	Polymer-Magnetic Composite Particles of Fe□□/Poly(-anisidine) and Their Suspension Characteristics under Applied Magnetic Fields. *Polymers*, **2019**, 11,	4.5	13
291	Polishing characteristics of optical glass using PMMA-coated carbonyl-iron-based magnetorheological fluid. *Smart Materials and Structures*, **2015**, 24, 065002	3.4	13
290	Pickering Emulsion Polymerized Polyaniline/Zinc-ferrite Composite Particles and Their Dual Electrorheological and Magnetorheological Responses. *ACS Omega*, **2020**, 5, 7675-7682	3.9	13
289	Polyaniline Coated Core-Shell Typed Stimuli-Responsive Microspheres and Their Electrorheology. *Polymers*, **2018**, 10,	4.5	13
288	Effect of medium viscosity on rheological characteristics of magnetite-based magnetorheological fluids. *Journal of Industrial and Engineering Chemistry*, **2019**, 80, 197-204	6.3	13
287	Self-assembly of graphene oxide coated soft magnetic carbonyl iron particles and their magnetorheology. *Journal of Applied Physics*, **2014**, 115, 17B508	2.5	13
286	Generalized yield stress equation for electrorheological fluids. *Journal of Colloid and Interface Science*, **2013**, 409, 259-63	9.3	13
285	Xanthan gum-coated soft magnetic carbonyl iron composite particles and their magnetorheology. *Colloid and Polymer Science*, **2013**, 291, 963-969	2.4	13
284	Ternary Poly(styrene-co-acrylonitrile)/Poly(vinyl chloride) Blend Composites with Multi-Walled Carbon Nanotubes and Enhanced Physical Characteristics. *Macromolecular Materials and Engineering*, **2010**, 295, 329-335	3.9	13
283	Compatibility effect of reactive copolymers on polypropylene/polyamide 6 blends from commingled plastic wastes. *Journal of Applied Polymer Science*, **2006**, 101, 1188-1193	2.9	13
282	PREPARATION AND MAGNETORHEOLOGICAL CHARACTERIZATION OF CI/PVB CORE/SHELL PARTICLE SUSPENDED MR FLUIDS. *International Journal of Modern Physics B*, **2007**, 21, 4996-5002	1.1	13
281	Synthesis and electrorheology of potato starch phosphate. *Journal of Applied Polymer Science*, **2004** , 91, 1770-1773	2.9	13
280	Rheological, Thermal, and Morphological Characteristics of Plasticized Cellulose Acetate Composite with Natural Fibers. *Macromolecular Symposia*, **2005**, 224, 297-308	0.8	13
279	Microrheological Study of Magnetic Particle Suspensions. *Industrial & Engineering Chemistry Research*, **1996**, 35, 3027-3031	3.9	13
278	Highly transparent electrorheological fluids of silica nanoparticles: the effect of urea modification. *Journal of Materials Chemistry C*, **2016**, 4, 7875-7882	7.1	13

277	Nanoparticles Functionalized by Conducting Polymers and Their Electrorheological and Magnetorheological Applications. *Polymers*, **2020**, 12,	4.5	12
276	Reciprocating magnetorheological polishing method for borosilicate glass surface smoothness. *Journal of Industrial and Engineering Chemistry*, **2020**, 84, 243-251	6.3	12
275	Pickering emulsion polymerized core-shell structured poly(methyl methacrylate)/ graphene oxide particles and their electrorheological characteristics. *Polymer Testing*, **2018**, 66, 195-202	4.5	12
274	Non-stoichiometric zinc-doped spinel ferrite nanoparticles with enhanced magnetic property and their magnetorheology. *Colloid and Polymer Science*, **2018**, 296, 405-409	2.4	12
273	Enhanced magnetorheological response of magnetic chromium dioxide nanoparticle added carbonyl iron suspension. *Smart Materials and Structures*, **2017**, 26, 095006	3.4	12
272	Conducting polyaniline-wrapped sepiolite composite and its stimuli-response under applied electric fields. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 469, 20-28	5.1	12
271	Rheological properties of Ag suspended fluid for inkjet printing. *Journal of Applied Physics*, **2010**, 108, 102803	2.5	12
270	Novel fabrication of polyaniline particles wrapped by exfoliated clay sheets and their electrorheology. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 285-9	1.3	12
269	Rheological analysis of oligomeric perfluoropolyethers. *Polymer*, **2010**, 51, 1882-1886	3.9	12
268	Preparation and characterization of poly(vinyl butyral)/Na+ -montmorillonite nanocomposite. *Journal of Materials Science*, **2004**, 39, 3151-3153	4.3	12
267	The effect of particle concentration of poly(p-phenylene) on electrorheological response. *Journal of Applied Polymer Science*, **2002**, 84, 2397-2403	2.9	12
266	Stability Study of Flexible 6,13-Bis(triisopropylsilylethynyl)pentacene Thin-Film Transistors with a Cross-Linked Poly(4-vinylphenol)/Yttrium Oxide Nanocomposite Gate Insulator. *Polymers*, **2016**, 8,	4.5	12
265	Large scale and facile sonochemical synthesis of magnetic graphene oxide nanocomposites and their dual electro/magneto-stimuli responses. *RSC Advances*, **2016**, 6, 77925-77930	3.7	12
264	Conformance control in oil reservoir based on magnetorheological behavior of nanoparticle suspension. *Journal of Environmental Management*, **2019**, 231, 1127-1134	7.9	12
263	Influence of Graphene Nanoplatelet and Silver Nanoparticle on the Rheological Properties of WaterBased Mud □*Applied Sciences (Switzerland)*, **2018**, 8, 1386	2.6	12
262	Analysis of the flow behavior of electrorheological fluids containing polypyrrole nanoparticles or polypyrrole/silica nanocomposite particles. *Rheologica Acta*, **2020**, 59, 415-423	2.3	11
261	Graphene oxide as a Pickering emulsifier for poly(glycidyl methacrylate) composite particles and their suspension rheology under applied electric fields. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 550, 56-64	5.1	11
260	Enhanced effect of dopant on polyaniline nanofiber based electrorheological response. *Materials Chemistry and Physics*, **2014**, 147, 843-849	4.4	11

259	Magnetic Carbonyl Iron Suspension with Sepiolite Additive and Its Magnetorheological Property. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	11
258	Graphene oxide nanocomposites and their electrorheology. *Materials Research Bulletin*, **2013**, 48, 4997-5002	3.1	11
257	Smart Polymer/Carbon Nanotube Nanocomposites and Their Electrorheological Response. *Materials*, **2014**, 7, 3399-3414	3.5	11
256	Synthesis and Magnetorheological Characterization of Magnetite Nanoparticle and Poly(Vinyl Butyral) Composite. *IEEE Transactions on Magnetics*, **2009**, 45, 2460-2463	2	11
255	Bingham characteristics of polymer-based electrorheological fluids with different electrode gaps and materials. *Journal of Applied Polymer Science*, **2009**, 114, 3636-3644	2.9	11
254	N-substituted copolyaniline for electrorheological material. *Journal of Materials Science Letters*, **1997**, 16, 672-673		11
253	Effect of interfacial interaction on the structure and rheological properties of polyamide-6/clay nanocomposites. *Composite Interfaces*, **2006**, 13, 773-782	2.3	11
252	Synthesis and Electrorheological Characterization of Polyaniline/Barium Titanate Hybrid Suspension. *Macromolecular Symposia*, **2006**, 242, 49-54	0.8	11
251	Preparation and characterization of plasticized cellulose acetate biocomposite with natural fiber. *Journal of Materials Science*, **2004**, 39, 6631-6633	4.3	11
250	Electrorheological fluid characterization via a vertical oscillation rheometer. *Polymer Testing*, **2001**, 20, 913-918	4.5	11
249	Stimuli-Responsive Graphene Oxide-Polymer Nanocomposites. *Macromolecular Research*, **2019**, 27, 1061-1070	1.9	11
248	Rheological and mechanical properties of polypropylene composites containing microfibrillated cellulose (MFC) with improved compatibility through surface silylation. *Cellulose*, **2019**, 26, 1085-1097	5.5	11
247	Synthesis of core-shell formed carbonyl iron/polydiphenylamine particles and their rheological response under applied magnetic fields. *Colloid and Polymer Science*, **2018**, 296, 1857-1865	2.4	11
246	Effect of organoclay on the properties of maleic-anhydride grafted polypropylene and poly(methyl methacrylate) blend. *Polymer Composites*, **2017**, 38, 431-440	3	10
245	Dispersion state and rheological characteristics of carbon nanotube suspensions. *Journal of Industrial and Engineering Chemistry*, **2017**, 52, 369-375	6.3	10
244	Viscoelastic and mechanical behaviors of magneto-rheological carbonyl iron/natural rubber composites with magnetic iron oxide nanoparticle. *Smart Materials and Structures*, **2019**, 28, 045012	3.4	10
243	Polyindole nanoparticle-based electrorheological fluid and its green and clean future potential conformance control technique to oil fields. *Journal of Cleaner Production*, **2019**, 231, 1218-1225	10.3	10
242	Conducting poly(N-methylaniline)-coated cross-linked poly(methyl methacrylate) nanoparticle suspension and its steady shear response under electric fields. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 481, 506-513	5.1	10

241	Enhanced magnetorheological characteristics of hollow magnetite nanoparticle-carbonyl iron microsphere suspension. *Smart Materials and Structures*, **2020**, 29, 055022	3.4	10
240	Formation of core□hell structured complex microparticles during fabrication of magnetorheological elastomers and their magnetorheological behavior. *Smart Materials and Structures*, **2016**, 25, 115028	3.4	10
239	Effect of Graphene Oxide on Carbonyl-Iron-Based Magnetorheological Fluid. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	10
238	Magnetorheology of xanthan-gum-coated soft magnetic carbonyl iron microspheres and their polishing characteristics. *Journal of the Korean Physical Society*, **2013**, 62, 2118-2122	0.6	10
237	Effect of Halloysite Clay on Magnetic Carbonyl Iron-Based Magnetorheological Fluid. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	10
236	Fabrication and electrorheology of graphene oxide/ionic N-substituted copolyaniline composite. *Colloid and Polymer Science*, **2013**, 291, 1401-1408	2.4	10
235	Pentacene TFT With Reduced Threshold Voltage Using PMMA-co-MAA/Sol-Gel-Derived $hbox{TiO}_{2}$ Composite Insulator. *IEEE Electron Device Letters*, **2009**, 30, 1146-1148	4.4	10
234	Electrorheological characteristics of solvent-cast polypyrrole/clay nanocomposite. *Journal of Applied Polymer Science*, **2009**, 112, 1365-1371	2.9	10
233	Polymer modified hematite nanoparticles for electrophoretic display. *Journal of Electroceramics*, **2009**, 23, 474-477	1.5	10
232	Poly(ethylene terephthalate) and polyhedral oligomeric silsesquioxane nanohybrids and their physical characteristics. *Journal of Materials Science*, **2010**, 45, 5984-5987	4.3	10
231	Universal Characteristics of Drag Reducing Polyisobutylene in Kerosene. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1997**, 34, 705-711	2.2	10
230	Molecular Rheology of Perfluoropolyether Lubricant via Nonequilibrium Molecular Dynamics Simulation. *IEEE Transactions on Magnetics*, **2007**, 43, 903-905	2	10
229	Fabrication and viscoelastic properties of biodegradable polymer/organophilic clay nanocomposites. *Journal of Materials Science Letters*, **2003**, 22, 53-55		10
228	SYNTHESIS AND VISCOELASTIC BEHAVIORS OF POLY(ANILINE-CO-O-ETHOXYANILINE) PARTICLES SUSPENDED ELECTRORHEOLOGICAL FLUID. *International Journal of Modern Physics B*, **2001**, 15, 649-656	1.1	10
227	Dynamics of the formation of an aureole in the bursting of soap films. *Physical Review E*, **1996**, 54, R3117-R3120	2.4	10
226	Synthesis and thermal analysis of hydrophobic iron oxide nanoparticles for improving in-situ combustion efficiency of heavy oils. *Journal of Industrial and Engineering Chemistry*, **2019**, 71, 402-409	6.3	10
225	Effects of hydrophobic modification of xanthan gum on its turbulent drag reduction characteristics. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 146-150	6.3	9
224	Spontaneous Phase Separation of Poly(3-hexylthiophene)s with Different Regioregularity for a Stretchable Semiconducting Film. *Advanced Functional Materials*, **2019**, 29, 1903163	15.6	9

223	Yield stress analysis of electrorheological suspensions containing core□shell structured anisotropic poly(methyl methacrylate) microparticles. *Polymers for Advanced Technologies*, **2015**, 26, 117-120	3.2	9
222	Core□shell structured poly(methyl methacrylate)-coated zirconium dioxide nanoparticle and its dispersion stability. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 145-150	6.3	9
221	Fabrication of p-aminobenzoic acid grafted carbonyl iron/polyindole composite particles and their magnetorheological response. *Journal of Industrial and Engineering Chemistry*, **2018**, 64, 102-106	6.3	9
220	Enhanced Rate Division Multiple Access for Electromagnetic Nanonetworks. *IEEE Sensors Journal*, **2016**, 16, 7287-7296	4	9
219	Effect of magnetic field intensity and □Fe2O3 nanoparticle additive on electrical conductivity and viscosity of magnetorheological carbonyl iron suspension-based membranes. *Smart Materials and Structures*, **2018**, 27, 095021	3.4	9
218	Graphene and Graphene Oxide Composites and Their Electrorheological Applications. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	9
217	Yield stress analysis of 1D calcium and titanium precipitate-based giant electrorheological fluids. *Colloid and Polymer Science*, **2013**, 291, 1267-1270	2.4	9
216	Surface force arising from adsorbed graphene oxide in alumina suspensions with different shape and size. *AICHE Journal*, **2013**, 59, 3633-3641	3.6	9
215	Effect of Glass Transition Temperature of Pressure Sensitive Adhesives on Light Leakage in LCD Panel. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2009**, 46, 1142-1150	2.2	9
214	Effect of Surfactant on Preparation of Poly(4-Vinylphenol)/Titanium Dioxide Composite for a Gate Insulator of Organic Thin Film Transistors. *Molecular Crystals and Liquid Crystals*, **2007**, 471, 173-179	0.5	9
213	Effect of pH on Physical Characteristics of Conducting Poly(O-Ethoxyaniline) Nanocomposites. *Journal of Macromolecular Science - Physics*, **2005**, 44, 365-375	1.4	9
212	Electrophoretic TiO2 nanoparticle modified with poly (methyl methacrylate). *Journal of Electroceramics*, **2006**, 17, 1031-1033	1.5	9
211	Magnetorheological Characterization of Polymer-Iron Composite Suspensions. *Materials Science Forum*, **2004**, 449-452, 1201-1204	0.4	9
210	ELECTRORHEOLOGICAL RESPONSE OF POLYANILINE-TIO2 COMPOSITE SUSPENSIONS. *International Journal of Modern Physics B*, **2005**, 19, 1128-1134	1.1	9
209	Characterization of turbulent drag reduction in rotating disk system. *Korean Journal of Chemical Engineering*, **1994**, 11, 8-13	2.8	9
208	Core□shell-structured Fe3O4 nanocomposite particles for high-performance/stable magnetorheological fluids: preparation and characteristics. *Journal of the Korean Ceramic Society*, **2020**, 57, 608-631	2.2	9
207	Fabrication of magnetite-coated attapulgite magnetic composite nanoparticles and their magnetorheology. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 507, 103-109	5.1	9
206	Microfibrillated Cellulose Suspension and Its Electrorheology. *Polymers*, **2019**, 11,	4.5	9

205	On the attributes of invert-emulsion drilling fluids modified with graphene oxide/inorganic complexes. *Journal of Industrial and Engineering Chemistry*, **2021**, 93, 290-301	6.3	9
204	Pickering emulsion polymerized magnetite-poly(methyl methacrylate) composite particles and their magnetorheology. *Colloid and Polymer Science*, **2017**, 295, 959-966	2.4	8
203	Ultraviolet light-responsive photorheological fluids: as a new class of smart fluids. *Smart Materials and Structures*, **2017**, 26, 054007	3.4	8
202	Quantitative Electrode Design Modeling of an Electroadhesive Lifting Device Based on the Localized Charge Distribution and Interfacial Polarization of Different Objects. *ACS Omega*, **2019**, 4, 7994-8000	2.9	8
201	On Interaction Characteristics of Polyhedral Oligomeric Silsesquioxane Containing Polymer Nanohybrids. *Polymer Bulletin*, **2015**, 72, 2331-2352	2.4	8
200	Graphene Oxide and Its Inorganic Composites: Fabrication and Electrorheological Response. *Materials*, **2019**, 12,	3.5	8
199	Synthesis and characteristics of snowman-like fluorescent PMMA microbeads. *Colloid and Polymer Science*, **2012**, 290, 1703-1706	2.4	8
198	Carboxylic acid functionalized multi-walled carbon nanotube-adsorption onto poly(methyl methacrylate) microspheres. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1058-61	1.3	8
197	Magnetorheological Characteristics of Polymer Coated Magnetite Particle Composites With Carbon Nanotube Nanohybrid. *IEEE Transactions on Magnetics*, **2009**, 45, 2503-2506	2	8
196	Anti-static additive for pressure-sensitive adhesives and its effect on light leakage in liquid crystal display. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 162-165	6.3	8
195	Comment on: Preparation, microstructure, and electrorheological property of nano-sized TiO2 particle materials doped with metal oxides. *Journal of Materials Science*, **2008**, 43, 5702-5704	4.3	8
194	Electroresponsive characteristics of highly substituted phosphate starch. *Journal of Materials Science*, **2004**, 39, 6083-6086	4.3	8
193	Electrorheology of undoped poly(p-phenylene) particle-based suspension. *Journal of Materials Science*, **2002**, 37, 4057-4061	4.3	8
192	Liquid crystal added electrorheological fluid. *Journal of Materials Science Letters*, **2003**, 22, 807-809		8
191	Conducting poly(methyl methacrylate)/polyaniline (core/shell) particles for electrorheological fluids. *Designed Monomers and Polymers*, **2004**, 7, 111-117	3.1	8
190	Rheological and Mechanical Characterization of Biodegradable Aliphatic Polyester and Poly(epichlorohydrin) Blends. *Macromolecular Chemistry and Physics*, **2001**, 202, 2634-2640	2.6	8
189	Electrorheological fluids based on chitosan particles. *Journal of Materials Science Letters*, **2001**, 20, 1029-1031		8
188	Application of Emulsion Intercalated Conducting Polymer-Clay Nanocomposite. *Molecular Crystals and Liquid Crystals*, **2002**, 377, 333-336	0.5	8

187	Aqueous ferric chloride doped poly(p-phenylene) for electrorheological material. *Journal of Materials Science Letters*, **2000**, 19, 1629-1631		8
186	Rheological Study on Biodegradable Poly(3-Hydroxybutyrate) and Its Copolymer. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1995**, 32, 843-852	2.2	8
185	Poly(vinyl acetate)/Clay Nanocomposite Materials for Organic Thin Film Transistor Application. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 2676-2679	1.3	8
184	Poly(diphenylamine)/polyaniline core/shell composite nanospheres synthesized using a reactive surfactant and their electrorheology. *Polymer*, **2020**, 188, 122161	3.9	8
183	Electrorheological Characteristics of Poly(diphenylamine)/magnetite Composite-Based Suspension. *Materials*, **2019**, 12,	3.5	7
182	Poly(glycidyl methacrylate) Coated Soft-Magnetic Carbonyl Iron/Silicone Rubber Composite Elastomer and Its Magnetorheology. *Macromolecular Research*, **2019**, 27, 448-453	1.9	7
181	Jellyfish-shaped p-phenylenediamine functionalized graphene oxide-g-polyaniline fibers and their electrorheology. *Polymer*, **2019**, 168, 29-35	3.9	7
180	Magnetorheology of a Carbonyliron Microsphere Suspension with a Halloysite Additive and Its Damping Force Characteristics. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4655-4663	3.9	7
179	Bio-Inspired Passion Fruit-like FeO@C Nanospheres Enabling High-Stability Magnetorheological Performances. *Langmuir*, **2020**, 36, 7706-7714	4	7
178	Microwave-assisted synthesis and characterization of iron oxide microfibers. *Journal of Materials Chemistry C*, **2020**, 8, 6159-6167	7.1	7
177	Elegant Surface of CoNi Alloys toward Efficient Magnetorheological Performances Realized with Carbon Quantum Dots. *Advanced Materials Interfaces*, **2018**, 5, 1800164	4.6	7
176	Magnetorheological properties and polishing characteristics of silica-coated carbonyl iron magnetorheological fluid. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 137-146	2.3	7
175	Synthesis of Organic–Inorganic Poly(diphenylamine)/Magnetite Composite Particles and Their Magnetorheological Response. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	7
174	Preparation and Magnetorheological Response of Triangular-Shaped Single-Crystalline Magnetite Particle-Based Magnetic Fluid. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	7
173	Fabrication of anisotropic snowman-like magnetic particles and their magnetorheological response. *Journal of Applied Physics*, **2014**, 115, 17B529	2.5	7
172	Iron oxide/MCM-41 mesoporous nanocomposites and their magnetorheology. *Colloid and Polymer Science*, **2013**, 291, 1895-1901	2.4	7
171	Core-Shell-Structured Copolyaniline-Coated Polymeric Nanoparticle Suspension and Its Viscoelastic Response under Various Electric Fields. *Materials*, **2015**, 8, 4932-4942	3.5	7
170	Carbonyl Iron Suspension With Core–Shell Structured Fe3O4@SiO2 Nanoparticle Additives and its Magnetorheological Property. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	7

169	Comment on Transient overshoot of the electrorheological responses of conducting polymer-coated polyethylene suspensions in mineral oil. *Synthetic Metals*, **2008**, 158, 72-74	3.6	7
168	PREPARATION AND ELECTRORHEOLOGICAL CHARACTERISTICS OF PANI/MWNT NANOCOMPOSITE. *International Journal of Modern Physics B*, **2007**, 21, 5003-5009	1.1	7
167	Rheological Properties of Polystyrene-Organophilic Layered Silicate Nanocomposites. *Macromolecular Symposia*, **2006**, 245-246, 199-207	0.8	7
166	Comment on "Electrorheological behavior of copper phthalocyanine-doped mesoporous TiO2 suspensions". *Journal of Colloid and Interface Science*, **2006**, 300, 818-9	9.3	7
165	Viscoelastic properties of exfoliated polyamide-6/layered silicate nanocomposite. *Journal of Materials Science*, **2006**, 41, 1843-1846	4.3	7
164	SYNTHESIS AND ELECTRORHEOLOGY OF PHOSPHATE CELLULOSE SUSPENSIONS. *International Journal of Modern Physics B*, **2002**, 16, 2487-2493	1.1	7
163	Melt Rheology and Mechanical Characteristics of Poly(Lactic Acid)/Alkylated Graphene Oxide Nanocomposites. *Polymers*, **2020**, 12,	4.5	7
162	Effect of silicon-based nanoparticles on enhanced oil recovery: Review. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 122, 241-259	5.3	7
161	Fabrication and electro-responsive electrorheological characteristics of rice husk-based nanosilica suspension. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 95, 432-437	5.3	7
160	Toughness and rheological characteristics of poly(lactic acid)/acrylic core–shell rubber blends. *Polymer Bulletin*, **2019**, 76, 5483-5497	2.4	7
159	Magnetic Polymer Composite Particles: Design and Magnetorheology. *Polymers*, **2021**, 13,	4.5	7
158	Rheological effect of Zn-doped ferrite nanoparticle additive with enhanced magnetism on micro-spherical carbonyl iron based magnetorheological suspension. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 571, 168-173	5.1	6
157	Synchronized oscillations of dimers in biphasic charged fd-virus suspensions. *Physical Review E*, **2016**, 94, 020602	2.4	6
156	Magnetorheological Characteristics of Nano-Sized Iron Oxide Coated Polyaniline Composites. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	6
155	Facile fabrication of core-shell typed silica/poly(diphenylamine) composite microparticles and their electro-response. *Polymer*, **2019**, 182, 121851	3.9	6
154	Nanoporous Fe-MCM-22 Additive Effect on Magnetorheological Response of Magnetic Carbonyl Iron Suspension. *IEEE Transactions on Magnetics*, **2013**, 49, 3410-3413	2	6
153	Hollow Structured Magnetic Particles of CoFe2O4 and Their Magnetorheological Characteristics. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	6
152	Surfactant effect on functionalized carbon nanotube coated snowman-like particles and their electro-responsive characteristics. *Materials Research Bulletin*, **2012**, 47, 2752-2755	5.1	6

151	Polyphenylene Ether/Glycol Modified Polyethylene Terephthalate Blends and their Physical Characteristics. *Journal of Macromolecular Science - Physics*, **2012**, 51, 798-806	1.4	6
150	Polyamide Coated Soft Magnetic Microspheres and Their Magnetorheology. *IEEE Transactions on Magnetics*, **2012**, 48, 3446-3449	2	6
149	Comment on Synthesis and electrorheological characteristics of titanate nanotube suspensions under oscillatory shear. *Journal of Industrial and Engineering Chemistry*, **2010**, 16, 651-653	6.3	6
148	Magnetorheological Characteristics of Carbonyl Iron Embedded Suspension Polymerized Poly(Methyl Methacrylate) Micro-Bead. *IEEE Transactions on Magnetics*, **2008**, 44, 3867-3870	2	6
147	MAGNETORHEOLOGY OF CARBONYL-IRON SUSPENSION WITH IRON/MCM-41 ADDITIVE. *International Journal of Modern Physics B*, **2007**, 21, 4981-4987	1.1	6
146	Rheological Characterization of Polyisobutylene Solutions from Rod-Climbing Experimentation. *International Journal of Polymer Analysis and Characterization*, **1996**, 3, 75-88	1.7	6
145	Rheological analysis of titanium dioxide nano-whisker based electrorheological fluids. *Journal of Industrial and Engineering Chemistry*, **2020**, 83, 285-288	6.3	6
144	Stimuli-Responsive Polymer-Clay Nanocomposites under Electric Fields. *Materials*, **2016**, 9,	3.5	6
143	Influence of clay-based additive on sedimentation stability of magnetorheological fluid. *Smart Materials and Structures*, **2021**, 30, 027001	3.4	6
142	Conducting polymer-based electro-responsive smart suspensions. *Chemical Papers*, **2021**, 75, 5009-5034	1.9	6
141	Effect of carbon-based and metal-based nanoparticles on enhanced oil recovery: A review. *Journal of Molecular Liquids*, **2021**, 338, 116903	6	6
140	Conducting polymer/clay nanocomposites and their applications. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1559-81	1.3	6
139	Fabrication and electric stimuli-response of semiconducting poly(3,4-ethylenedioxythiophene)/silica nanocomposite particles. *European Polymer Journal*, **2018**, 101, 255-261	5.2	5
138	Magnetite Embedded Mini-Emulsion Polymerized Polystyrene Particles and Their Magnetorheology. *Macromolecular Research*, **2018**, 26, 353-358	1.9	5
137	Fabrication of poly(o-anisidine) coated silica core–shell microspheres and their electrorheological response. *Materials Research Express*, **2017**, 4, 116310	1.7	5
136	Thermorheological properties of nano-magnetorheological fluid in dynamic mode: experimental investigation. *Smart Materials and Structures*, **2015**, 24, 057001	3.4	5
135	Dynamic response of a graphene oxide-polyaniline composite suspension under an applied electric field. *Journal of the Korean Physical Society*, **2012**, 61, 1422-1425	0.6	5
134	Transparent thiourea treated silica suspension through refractive index matching method and its electrorheology. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 397, 80-84	5.1	5

133	Comment on 'Fabrication of uniform core-shell structural calcium and titanium precipitation particles and enhanced electrorheological activities'. *Nanotechnology*, **2010**, 21, 378001	3.4	5
132	Effect of preparation method of multi-walled carbon nanotube/poly(methyl methacrylate) nanocomposite on its characteristics. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6089-95	1.3	5
131	Shear Stress and Dielectric Analysis of H3PO4 Doped Polyaniline Based Electrorheological Fluid. *Journal of Macromolecular Science - Physics*, **2007**, 46, 683-692	1.4	5
130	Synthesis and Characterization ofPolyaniline-Na+-Montmorillonite Nanocompositeby Microemulsion Polymerization. *Molecular Crystals and Liquid Crystals*, **2007**, 463, 221/[503]-225/[507]	0.5	5
129	Microencapsulation of Electrophoretic TiO2 Nanoparticles for Electronic Ink. *Molecular Crystals and Liquid Crystals*, **2006**, 445, 43/[333]-48/[338]	0.5	5
128	Effect of Solubility Parameter of Polymer-Solvent Pair on Turbulent Drag Reduction. *Macromolecular Symposia*, **2005**, 222, 169-174	0.8	5
127	Polypropylene/polyamide-6 blends based on commingled plastic wastes. *Journal of Materials Science*, **2005**, 40, 3857-3859	4.3	5
126	Nitrogen-doped graphene quantum dot nanofluids to improve oil recovery from carbonate and sandstone oil reservoirs. *Journal of Molecular Liquids*, **2021**, 330, 115715	6	5
125	Core-Shell Structured Magnetite-Poly(diphenylamine) Microspheres and Their Tunable Dual Response under Magnetic and Electric Fields. *Langmuir*, **2021**, 37, 2298-2311	4	5
124	Effect of oxidants on morphology of interfacial polymerized polyaniline nanofibers and their electrorheological response. *Polymer*, **2018**, 158, 176-182	3.9	5
123	Stimuli-response of chlorosilane-functionalized starch suspension under applied electric fields. *Polymer Bulletin*, **2017**, 74, 823-837	2.4	4
122	Synthesis of conducting polymeric nanoparticles in the presence of a polymerizable surfactant and their electrorheological response. *Colloid and Polymer Science*, **2019**, 297, 781-784	2.4	4
121	Magnetorheology of iron associated magnetic metal-organic framework nanoparticle. *Journal of Applied Physics*, **2015**, 117, 17C732	2.5	4
120	Electrorheological response of microporous covalent triazine-based polymeric particles. *Colloid and Polymer Science*, **2018**, 296, 907-915	2.4	4
119	Field-responsive smart composite particle suspension: materials and rheology **2012**, 24, 147-153		4
118	Preparation of polystyrene/polyaniline composite particles and their electrorheology. *Journal of Physics: Conference Series*, **2009**, 149, 012017	0.3	4
117	Comment on preparation and electrorheology of new mesoporous polypyrrole/MCM-41 suspensions *Journal of Materials Science*, **2009**, 44, 2999-3001	4.3	4
116	Microemulsion polymerized polyaniline/montmorillonite nanocomposite and its electrorheology. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1501-4	1.3	4

115	Rotating disk apparatus for polymer-induced turbulent drag reduction. *Journal of Mechanical Science and Technology*, **2008**, 22, 1908-1913	1.6	4
114	EFFECT OF POLY (SODIUM 4-STYRENESULFONATE) STABILIZER ON SYNTHESIS AND CHARACTERIZATION OF POLYANILINE NANOPARTICLES. *Molecular Crystals and Liquid Crystals*, **2003**, 407, 7-13	0.5	4
113	Biocompatible Polysaccharide-Based Electrorheological Suspensions. *Journal of Macromolecular Science - Physics*, **2005**, 44, 573-581	1.4	4
112	CHARACTERISTICS OF A YIELD STRESS SCALING FUNCTION FOR ELECTRORHEOLOGICAL FLUIDS. *International Journal of Modern Physics B*, **2002**, 16, 2636-2642	1.1	4
111	Effect of reduced graphene oxide and MnFe2O4 nanoparticles on carbonyl iron for magnetorheological fluids. *Journal of Industrial and Engineering Chemistry*, **2021**, 98, 140-147	6.3	4
110	Glutathione-capped core-shell structured magnetite nanoparticles: Fabrication and their nonlinear optical characteristics. *Current Applied Physics*, **2020**, 20, 822-827	2.6	3
109	Molecularly thin fluoro-polymeric nanolubricant films: tribology, rheology, morphology, and applications. *Soft Matter*, **2016**, 12, 2816-25	3.6	3
108	Raman spectroscopy study of solution-processed In2O3 thin films: effect of annealing temperature on the characteristics of In2O3 semiconductors and thin-film transistors. *Molecular Crystals and Liquid Crystals*, **2019**, 679, 38-47	0.5	3
107	Non-Einstein Viscosity Phenomenon of Acrylonitrile-Butadiene-Styrene Composites Containing Lignin-Polycaprolactone Particulates Highly Dispersed by High-Shear Stress. *ACS Omega*, **2019**, 4, 10036-10043	3.9	3
106	Submicron Magnetic Particles of ${rm Mn}_{0.25}{rm Fe}_{2.75}{rm O}_{4}$ and Their Magnetorheological Characteristics. *IEEE Transactions on Magnetics*, **2013**, 49, 3406-3409	2	3
105	Fabrication and characterization of core-shell structured black pigment particles for electrophoretic display. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 4279-82	1.3	3
104	MAGNETORHEOLOGICAL CHARACTERIZATION OF HOLLOW POLYMER/MAGNETITE MICROSPHERICAL COMPOSITE. *International Journal of Modern Physics B*, **2009**, 23, 3613-3618	1.1	3
103	Preparation of poly(4-vinylphenol)/titanium dioxide composite and its application as a gate dielectric for organic thin-film transistors. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 4466-70	1.3	3
102	Comment on "The electrorheological properties of nano-sized SiO2 particle materials doped with rare earths" *Scripta Materialia*, **2006**, 55, 415-417	5.6	3
101	Carbon Nanotube-Organized Polymeric Fibers and Measurement of Their Electrical Conductivity. *Molecular Crystals and Liquid Crystals*, **2007**, 464, 15/[597]-21/[603]	0.5	3
100	Turbulent drag reduction characteristics of amylopectin and its derivative. *E-Polymers*, **2004**, 4,	2.7	3
99	Polymer/organoclay nanocomposites with biodegradable aliphatic polyester and its blends: preparation and characterization. *E-Polymers*, **2004**, 4,	2.7	3
98	Electrorheology Of Conducting Polyaniline Composite Particles. *Materials Research Innovations*, **2005**, 9, 6-7	1.9	3

97	Preparation and physical characteristics of solvent intercalated poly(o-ethoxyaniline)/organoclay nanocomposites. *Journal of Materials Science*, **2005**, 40, 4951-4953	4.3	3
96	Preparation and electrorheological property of conducting copolyaniline/MCM-41 nanocomposite. *Studies in Surface Science and Catalysis*, **2005**, 517-522	1.8	3
95	Polyindole-Coated Soft-Magnetic Particles and their Viscoelastic Behaviors under Applied Magnetic Field. *Journal of Magnetics*, **2019**, 24, 155-161	1.9	3
94	Synthesis and Electrorheological Response of Graphene Oxide/Polydiphenylamine Microsheet Composite Particles. *Polymers*, **2020**, 12,	4.5	3
93	Enhanced Electrorheological Response of Cellulose: A Double Effect of Modification by Urea-Terminated Silane. *Polymers*, **2018**, 10,	4.5	3
92	Pickering emulsion-polymerized conducting polymer nanocomposites and their applications. *Chemical Papers*, **2017**, 71, 179-188	1.9	2
91	Flow curve analysis of a Pickering emulsion-polymerized PEDOT:PSS/PS-based electrorheological fluid. *Smart Materials and Structures*, **2017**, 26, 117001	3.4	2
90	Nanosilica Extracted from Hexafluorosilicic Acid of Waste Fertilizer as Reinforcement Material for Natural Rubber: Preparation and Mechanical Characteristics. *Materials*, **2019**, 12,	3.5	2
89	Role of calcium carbonate as an interfacial compatibilizer in the magneto-rheological elastomers based on ethylene/acrylic elastomer (AEM) and its magneto-induced properties. *Materials Research Express*, **2019**, 6, 085320	1.7	2
88	Lifting-Force Maximization of a Micropatterned Electroadhesive Device Comparable to the Human-Finger Grip. *ACS Applied Electronic Materials*, **2020**, 2, 1596-1602	4	2
87	Synthesis and Viscoelastic Behavior of Non-Stoichiometric Spinel Ferrite Particle Suspension. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	2
86	Magnetorheology of Core–Shell Structured Mesoporous Fe3O4@mSiO2 Nanoparticles in Carbonyl Iron Dispersion. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	2
85	Analysis of the static yield stress for giant electrorheological fluids **2017**, 29, 215-218		2
84	Light-induced characteristic variations in organic thin-film transistors with a poly(vinylphenol-co-methyl methacrylate)/titanium-dioxide nanocomposite gate dielectric. *Journal of the Korean Physical Society*, **2015**, 67, 1853-1858	0.6	2
83	Poly(4-vinylphenol-co-methyl methacrylate)/titanium dioxide nanocomposite gate insulators for 6,13-bis(triisopropylsilylethynyl)-pentacene thin-film transistors. *Journal of the Korean Physical Society*, **2014**, 65, 1956-1960	0.6	2
82	Magnetorheological response of soft-magnetic carbonyl iron microbeads dispersed in a poly(ethylene oxide) solution. *Journal of the Korean Physical Society*, **2012**, 61, 1413-1417	0.6	2
81	Electrical Characteristics of Organic Thin-Film Transistors with Polystyrene/Sol-Gel Derived Titania Composite Insulator. *Molecular Crystals and Liquid Crystals*, **2010**, 519, 222-226	0.5	2
80	Preparation of PE/MWNT nanocomposites by In-situ metallocene polymerization. *International Journal of Material Forming*, **2009**, 2, 873-875	2	2

79	Fabrication of poly(methyl methacrylate) microsphere added pressure-sensitive adhesives and their physical characteristics. *Journal of Materials Science*, **2010**, 45, 429-434	4.3	2
78	Comment on "Universal yield stress equation for transient response of zeolite based electrorheological fluid". *Journal of Colloid and Interface Science*, **2010**, 345, 554-5	9.3	2
77	Comment on Preparation and electrorheological properties of polyquin(2,3-b)acridine-12,14(5,7)dione-based suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 295, 288-290	5.1	2
76	Comment on Two roles of guest and crosslinked degree on hydrosoluble cyclodextrin polymer electrorheological fluids by Z. Gao and X. Zhao. *Polymer*, **2007**, 48, 917-919	3.9	2
75	DNA Dynamics under Turbulent Flow. *Macromolecular Symposia*, **2007**, 249-250, 472-477	0.8	2
74	Comment on Synthesis and electrorheological characterization of polymer containing amino and carboxy groups. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 276, 232-234	5.1	2
73	Rod-climbing characteristics of Fe2O3 suspended polyisobutylene/polybutene solution. *Journal of Applied Polymer Science*, **2004**, 92, 1548-1552	2.9	2
72	Scaling functions of polymer-induced turbulent drag reduction focusing on the polymer-solvent interaction. *Journal of Applied Polymer Science*, **2003**, 88, 1836-1839	2.9	2
71	P-4: Synthesis and Applications of PVP-TiO2 Composite as a Gate Insulator for Organic Thin-Film Transistors. *Digest of Technical Papers SID International Symposium*, **2005**, 36, 236	0.5	2
70	PREISACH MODEL OF ER FLUIDS CONSIDERING TEMPERATURE VARIATIONS. *International Journal of Modern Physics B*, **2005**, 19, 1325-1331	1.1	2
69	SYNTHESIS AND ELECTRORHEOLOGY OF PHOSPHORIC ACID DOPED POLYANILINE SUSPENSIONS. *International Journal of Modern Physics B*, **2005**, 19, 1149-1155	1.1	2
68	Rod-climbing in a particle-suspended polymeric liquid. *Journal of Applied Polymer Science*, **2000**, 75, 572-575	2.9	2
67	Rod-Climbing characterization of kaolinite suspended polyisobutylene solutions. *Polymer Engineering and Science*, **1999**, 39, 469-473	2.3	2
66	Drag reducing effects of polymer additives on Coal-Water Mixture in rotating disk system. *Journal of Mechanical Science and Technology*, **1993**, 7, 48-54		2
65	Pickering emulsion fabricated smart polyaniline/clay composite particles and their tunable rheological response under electric field. *Smart Materials and Structures*, **2020**, 29, 085022	3.4	2
64	Porous Fe3O4 submicron particles for use in magnetorheological fluids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 613, 126066	5.1	2
63	Magnetite/Poly(ortho-anisidine) Composite Particles and Their Electrorheological Response. *Materials*, **2021**, 14,	3.5	2
62	Additive effect of rod-like magnetite/sepiolite composite particles on magnetorheology. *Journal of Industrial and Engineering Chemistry*, **2021**, 93, 210-215	6.3	2

61	Electroresponsive Polymer-Inorganic Semiconducting Composite (MCTP-FeO) Particles and Their Electrorheology. *ACS Omega*, **2018**, 3, 17246-17253	3.9	2
60	Hierarchical Architectures of PMMA/MWNT-NH2 Particles: a Material for Enhanced Volatile Organic Compound Sensing Performance. *Macromolecular Research*, **2018**, 26, 788-793	1.9	2
59	Effect of Magnetic Nanoparticle Additive on Viscoelastic Behaviors of Carbonyl Iron-Based Magnetorheological Suspension. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	2
58	Application of artificial intelligence to magnetite-based magnetorheological fluids. *Journal of Industrial and Engineering Chemistry*, **2021**, 100, 399-409	6.3	2
57	Polyaniline coated ZnFe2O4 microsphere and its electrorheological and magnetorheological response. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 626, 127079	5.1	2
56	Smart Graphene Oxide Based Composite Materials and their Electric and Magnetic Stimuli-response. *Procedia Engineering*, **2017**, 171, 64-70		1
55	Comment on Synthesis, characterization and magnetorheological study of 3-aminopropyltriethoxysilane-modified Fe3O4 nanoparticles *Smart Materials and Structures*, **2019**, 28, 088001	3.4	1
54	Facile Synthesis of Solvent Cast Arabic Gum Coated Carbonyl Iron Microspheres and Their Magnetorheological Characteristics. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 3905-3910	1.3	1
53	A simple method of correcting the parallel plate rim shear stress for non-Newtonian behavior **2020**, 32, 165-169		1
52	Operational stability of solution-processed indium-oxide thin-film transistors: Environmental condition and electrical stress. *Journal of the Korean Physical Society*, **2018**, 72, 151-158	0.6	1
51	Particle interaction energy and hysteresis in polar and non-polar medium based magnetic fluids. *Journal of Industrial and Engineering Chemistry*, **2018**, 63, 133-138	6.3	1
50	Split-Ring Springback Simulations with the Non-associated Flow Rule and Evolutionary Elastic-Plasticity Models. *Jom*, **2018**, 70, 906-911	2.1	1
49	Magnetorheology of Snowman-Like Anisotropic Microparticle Added Carbonyl Iron Suspension. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	1
48	Influence of the surface properties of polymeric insulators on the electrical stability of 6,13-bis(triisopropylsilylethynyl)-pentacene thin-film transistors. *Journal of the Korean Physical Society*, **2015**, 67, 2124-2130	0.6	1
47	Fabrication and Thermal Characteristics of Liquid Crystalline Copolyester/OMMT Nanocomposite Films. *Journal of Macromolecular Science - Physics*, **2011**, 50, 614-623	1.4	1
46	Conducting Nanostructured Polymer Materials and their Electrorheological Application. *Journal of Polymer Engineering*, **2010**, 30,	1.4	1
45	Phase transition of conducting polymer/clay nanocomposite suspensions under an electric field. *Philosophical Magazine*, **2010**, 90, 2507-2517	1.6	1
44	Effects of Moisture on Pentacene Field-Effect Transistors with Polyvinylpyrrolidone Gate Insulator. *Molecular Crystals and Liquid Crystals*, **2010**, 531, 14/[314]-20/[320]	0.5	1

43	Electrorheological Fluids: Materials and Rheology **2011**, 285-302		1
42	Comment on "Study on electrorheological properties of novel polymer-Ce4+ complex" *Journal of Materials Science*, **2009**, 44, 4503-4506	4.3	1
41	Piezoelectric composite forming and its characterization. *International Journal of Material Forming*, **2009**, 2, 869-871	2	1
40	Synthesis and Electrophoretic Properties of Poly(acrylamide-co-methylmethacrylate) Coated Organic Pigments. *Molecular Crystals and Liquid Crystals*, **2009**, 499, 305/[627]-310/[632]	0.5	1
39	Real-time observation of electrorheological fluids using synchrotron X-ray imaging. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 313-314, 557-561	5.1	1
38	DNA-Induced Turbulent Drag Reduction and Their Molecular Characteristics. *AIP Conference Proceedings*, **2006**,	0	1
37	Effect of Surface Characteristics on Polystyrene/Clay Nanocomposite via Emulsion Polymerization. *Solid State Phenomena*, **2006**, 111, 187-190	0.4	1
36	PREPARATION AND ELECTRORHEOLOGICAL CHARACTERISTICS OF PANI/MWNT NANOCOMPOSITE **2007**,		1
35	Comment on "Synthesis and electrorheological effect of PAn–BaTiO3 nanocomposite" *Journal of Materials Science*, **2006**, 41, 5782-5783	4.3	1
34	ELECTRORHEOLOGY OF MONODISPERSE CORE/SHELL STRUCTURED PARTICLE SUSPENSIONS. *International Journal of Modern Physics B*, **2005**, 19, 1077-1082	1.1	1
33	Effect of polymer–graphene-quantum-dot solution on enhanced oil recovery performance. *Journal of Molecular Liquids*, **2021**, 118092	6	1
32	Magnetic-stimuli rheological response of soft-magnetic manganese ferrite nanoparticle suspension. *Colloid and Polymer Science*, **2021**, 299, 865-872	2.4	1
31	Shirasu porous glass membrane processed uniform-sized Fe3O4-embedded polymethylmethacrylate nanoparticles and their tunable rheological response under magnetic field. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 611, 125756	5.1	1
30	Electrorheological Responses of Acid-Hydrolyzed Cellulose Suspensions. *Current Smart Materials*, **2018**, 3, 58-67	1	1
29	Artificial Neural Network to Forecast Enhanced Oil Recovery Using Hydrolyzed Polyacrylamide in Sandstone and Carbonate Reservoirs. *Polymers*, **2021**, 13,	4.5	1
28	Drag reduction characteristics of polysaccharide xanthan gum **1998**, 19, 419		1
27	Drag reduction characteristics of polysaccharide xanthan gum **1998**, 19, 419		1
26	Crystallization behavior and mechanical properties of poly(ethylene oxide)/poly(L-lactide)/poly(vinyl acetate) blends **2001**, 82, 3618		1

25	Effects of dispersion state on rheological and electrical characteristics of concentrated multiwalled carbon nanotube suspensions **2019**, 31, 179-186		0
24	Temperature-dependent electrorheology of a suspension based on copolymeric P(NIPAM-co-[AMIm]Cl) colloidal particles. *Smart Materials and Structures*, **2020**, 29, 124001	3.4	0
23	Effect of drag-reducing polymer on blood flow in microchannels. *Colloids and Surfaces B: Biointerfaces*, **2022**, 209, 112212	6	0
22	Synthesis of reduced graphene oxide/cobalt ferrite composite particles and their magnetorheological characteristics. *AIP Advances*, **2021**, 11, 015129	1.5	0
21	Fabrication of Polyindole Coated Zinc Ferrite Particles and Their Dual Rheological Response under Magnetic and Electric Fields. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
20	Fabrication and Shear Response of Conducting Polymer-Coated Zinc Ferrite Particles under Magnetic/Electric Field. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
19	Magnetized solvents: Characteristics and various applications. *Journal of Molecular Liquids*, **2021**, 335, 116167	6	0
18	Ionic-liquid-modified TiO2 spheres and their enhanced electrorheological responses. *Journal of Molecular Liquids*, **2021**, 338, 116696	6	0
17	Magnetite-embedded poly (2-methylaniline) hybrid particles and their smart responses under magnetic and electric fields. *Journal of Molecular Liquids*, **2021**, 340, 117294	6	0
16	Enhanced Magnetorheological Response of Carbonyl Iron Suspension with Added ZnFe2O4 Particles. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
15	Remote-controllable, tough, ultrastretchable, and magneto-sensitive nanocomposite hydrogels with homogeneous nanoparticle dispersion as biomedical actuators, and their tuned structure, properties, and performances. *Composites Part B: Engineering*, **2022**, 236, 109802	10	0
14	Xanthan gum-added natural surfactant solution of Chuback: A green and clean technique for enhanced oil recovery. *Journal of Molecular Liquids*, **2022**, 354, 118909	6	0
13	Semiconducting Polymer Blends: Spontaneous Phase Separation of Poly(3-hexylthiophene)s with Different Regioregularity for a Stretchable Semiconducting Film (Adv. Funct. Mater. 35/2019). *Advanced Functional Materials*, **2019**, 29, 1970244	15.6	
12	Surface modification of inorganic black particles for electrophoretic display. *Journal of the Korean Physical Society*, **2014**, 65, 1520-1523	0.6	
11	Magnetorheological characteristics of carbon nanotube wrapped carbonyl iron particles. *Journal of Physics: Conference Series*, **2009**, 149, 012047	0.3	
10	Effect of Polymer Encapsulation on Electrophoretic Property of Organic Pigment. *Molecular Crystals and Liquid Crystals*, **2008**, 492, 257/[621]-261/[625]	0.5	
9	Encapsulation of Carbonyl Iron Particles with Poly(Vinyl Butyral) and their Magnetorheology. *Key Engineering Materials*, **2007**, 334-335, 193-196	0.4	
8	Comment on Preparation of high performance electrorheological fluids with coke-like particles from FCC slurry conversion *Fuel*, **2006**, 85, 2680-2682	7.1	

7	Comment on "An enhanced polarization mechanism for the metal cations modified amorphous TiO2 based electrorheological materials" by Qing Wu, Bin Yuan Zhao, Chen Fang and Ke Ao Hu. *European Physical Journal E*, **2006**, 21, 387-9	1.5
6	An overview on the enhanced gas condensate recovery with novel and green methods.. *Environmental Science and Pollution Research*, **2022**, 1	5.1
5	Poly(N-methylaniline)/magnetite microsphere and its electrical and magnetic dual responses. *Polymer*, **2022**, 240, 124492	3.9
4	Poly(4-vinylphenol-co-methyl methacrylate)/Hafnium Oxide Nanocomposite Gate Insulators for Organic Thin-Film Transistors. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4188-4192	1.3
3	Fabrication and Magnetorheological Characteristics of Core-shell Typed Poly(2-methylaniline)/Carbonyl Iron Microspheres. *IEEE Transactions on Magnetics*, **2021**, 1-1	2
2	Iconography connecting art and rheology based on Dal paintings **2018**, 30, 317-321	
1	Monodisperse semiconducting poly(N-methylaniline) microspheres and their electrorheological response. *Smart Materials and Structures*, **2021**, 30, 085045	3.4