Yongsok Seo

List of Publications by Year
in descending order

117 papers	3,435 citations	147566 31 h-index	161609 54 g-index
120 all docs	120 docs citations	120 times ranked	3297 citing authors

#	Article	IF	Citations
1	Modeling of Electrorheological Fluids. , 2022, , 140-151.		3
2	Effect of the Molecular Structure Change of a Matrix Polymer (Nylon 6) on the Deformation of Dispersed Phase (a Thermotropic Liquid Crystalline Polymer) Droplets in Shear Flow. ACS Omega, 2022, 7, 3341-3347.	1.6	1
3	Effects of non-magnetic carbon nanotubes on the performance and stability of magnetorheological fluids containing FeCo-deposited carbon nanotubes. Korea Australia Rheology Journal, 2022, 34, 137-146.	0.7	3
4	Porous Fe3O4 submicron particles for use in magnetorheological fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126066.	2.3	8
5	Strong and Stable Magnetorheological Fluids Based on Flaky Sendust-Co_{0.4}Fe_{0.4}Ni_{0.2} Nanocomposite Particles. ACS Applied Materials & Interfaces, 2021, 13, 26581-26589.	4.0	9
6	Effect of Particle Shape Anisotropy on the Performance and Stability of Magnetorheological Fluids. ACS Applied Electronic Materials, 2021, 3, 2526-2533.	2.0	11
7	Synergistic Effects of Nonmagnetic Carbon Nanotubes on the Performance and Stability of Magnetorheological Fluids Containing Carbon Nanotube-Co_{0.4}Fe_{0.4}Ni_{0.2} Nanocomposite Particles. Nano Letters, 2021, 21, 4973-4980.	4.5	12
8	Hierarchically Structured Fe₃O₄ Nanoparticles for High-Performance Magnetorheological Fluids with Long-Term Stability. ACS Applied Nano Materials, 2020, 3, 10931-10940.	2.4	21
9	Novel Dual-Curing Process for a Stereolithographically Printed Part Triggers a Remarkably Improved Interlayer Adhesion and Excellent Mechanical Properties. Langmuir, 2020, 36, 9250-9258.	1.6	14
10	Binderâ€Free Highâ€Performance MXene Supercapacitors Fabricated by a Simple Electrospray Deposition Technique. Advanced Materials Interfaces, 2020, 7, 2000750.	1.9	13
11	Coreâ€“shell-structured Fe3O4 nanocomposite particles for high-performance/stable magnetorheological fluids: preparation and characteristics. Journal of the Korean Ceramic Society, 2020, 57, 608-631.	1.1	12
12	Analysis of the flow behavior of electrorheological fluids containing polypyrrole nanoparticles or polypyrrole/silica nanocomposite particles. Rheologica Acta, 2020, 59, 415-423.	1.1	17
13	Long-Living Anions Could Dramatically Change the Overall Physical Properties of a Polyamide (Nylon) Tj ETQq1 1 0.784314 rgBT /Overl	1.6	3
14	Multilayer Structuring of Nonleaded Metal (BiSn)/Polymer/Tungsten Composites for Enhanced Î³â€Ray Shielding. Advanced Engineering Materials, 2020, 22, 1901448.	1.6	15
15	Nonisothermal Crystallization Behaviors of Structure-Modified Polyamides (Nylon 6s). ACS Omega, 2020, 5, 29325-29332.	1.6	1
16	Nonisothermal Crystallization Behaviors of Structure-Modified Polyamides (Nylon 6s). ACS Omega, 2020, 5, 29325-29332.	1.6	5
17	Synthesis and characterization of isosorbide based polycarbonates. Polymer, 2019, 179, 121685.	1.8	25
18	Optimum Thermoelectric Performance of Bismuthâ€“Antimonyâ€“Telluride Alloy/PEDOT:PSS Nanocomposites Prepared by an Innovative Redox Process. ACS Applied Energy Materials, 2019, 2, 8219-8228.	2.5	18

#	ARTICLE	IF	CITATIONS
19	Suspensions of Hollow Polydivinylbenzene Nanoparticles Decorated with Fe₃O₄ Nanoparticles as Magnetorheological Fluids for Microfluidics Applications. ACS Applied Nano Materials, 2019, 2, 6939-6947.	2.4	31
20	Effect of Diamine Addition on Structural Features and Physical Properties of Polyamide 6 Synthesized by Anionic Ring-Opening Polymerization of Îµ-Caprolactam. ACS Omega, 2019, 4, 17117-17124.	1.6	14
21	Static yield stress of a magnetorheological fluid containing pickering emulsion polymerized Fe3O4/polystyrene composite particles. AIP Conference Proceedings, 2019, , .	0.3	1
22	High-Performance Magnetorheological Suspensions of Fe3O4-deposited Carbon Nanotubes with Enhanced Stability. MRS Advances, 2019, 4, 217-224.	0.5	14
23	Rheological and mechanical properties of a novel polyamide 6 synthesized by anionic polymerization of Îµ-caprolactam in a twin-screw extruder. Polymer, 2019, 177, 196-201.	1.8	15
24	Microwave Absorption and Shielding Property of Feâ€“Siâ€“Al Alloy/MWCNT/Polymer Nanocomposites. Langmuir, 2019, 35, 6950-6955.	1.6	27
25	Synthesis of novel thermotropic liquid crystalline polymers by a reactive extrusion process. RSC Advances, 2019, 9, 12189-12194.	1.7	8
26	Cobalt-Based Electrolytes for Efficient Flexible Dye-Sensitized Solar Cells. MRS Advances, 2019, 4, 481-489.	0.5	5
27	Recent development of electro-responsive smart electrorheological fluids. Soft Matter, 2019, 15, 3473-3486.	1.2	107
28	Pure Piezoelectricity Generation by a Flexible Nanogenerator Based on Lead Zirconate Titanate Nanofibers. ACS Omega, 2019, 4, 2610-2617.	1.6	52
29	Multilayer-Structured Non-leaded Metal/Polymer Composites for Enhanced X-ray Shielding. MRS Advances, 2018, 3, 1789-1797.	0.5	10
30	High-Performance Magnetorheological Suspensions of Pickering-Emulsion-Polymerized Polystyrene/Fe₃O₄ Particles with Enhanced Stability. Langmuir, 2018, 34, 2807-2814.	1.6	41
31	Iconography connecting art and rheology based on DalÃâ€™s paintings. Korea Australia Rheology Journal, 2018, 30, 317-321.	0.7	0
32	Effect of Molecular Structure Change on the Melt Rheological Properties of a Polyamide (Nylon 6). ACS Omega, 2018, 3, 16549-16555.	1.6	26
33	Fracture Mechanism Change at a Heterogeneous Polymerâ€“Polymer Interface Reinforced with in Situ Graft Copolymers. Langmuir, 2018, 34, 11027-11033.	1.6	3
34	Searching for a Stable Highâ€Performance Magnetorheological Suspension. Advanced Materials, 2018, 30, e1704769.	11.1	85
35	Synthesis of semiconducting poly(diphenylamine) particles and analysis of their electrorheological properties. Polymer, 2017, 119, 40-49.	1.8	40
36	Coreâ€“shell structured mesoporous magnetic nanoparticles and their magnetorheological response. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 524, 79-86.	2.3	25

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37	Elastomers built up through the Ï€â€“Ï€ stacking association of polycyclic planar aromatic diimides. RSC Advances, 2017, 7, 46195-46200.	1.7	9
38	A facile synthetic route to novel thermotropic liquid crystalline polymers and characterization of their mesophases. RSC Advances, 2017, 7, 29772-29778.	1.7	3
39	Analysis of the static yield stress for giant electrorheological fluids. Korea Australia Rheology Journal, 2017, 29, 215-218.	0.7	5
40	Polymeric Nanoparticle-Coated Pickering Emulsion-Synthesized Conducting Polyaniline Hybrid Particles and Their Electrorheological Study. ACS Applied Materials & Interfaces, 2017, 9, 44811-44819.	4.0	24
41	Efficient dye-sensitized solar cells with broad absorption and enhanced photo-current generation. RSC Advances, 2016, 6, 56747-56755.	1.7	7
42	Facile fabrication of core/shell structured SiO₂/polypyrrole nanoparticles with surface modification and their electrorheology. RSC Advances, 2016, 6, 56495-56502.	1.7	36
43	Efficient Vacuum-Deposited Ternary Organic Solar Cells with Broad Absorption, Energy Transfer, and Enhanced Hole Mobility. ACS Applied Materials & Interfaces, 2016, 8, 1214-1219.	4.0	26
44	Static yield stress of a magnetorheological fluid containing Pickering emulsion polymerized Fe 2 O 3 /polystyrene composite particles. Journal of Colloid and Interface Science, 2016, 463, 272-278.	5.0	35
45	Fabrication and magnetic stimuli-response of polydopamine-coated coreâ€“shell structured carbonyl iron microspheres. Colloid and Polymer Science, 2016, 294, 329-337.	1.0	20
46	Potential of Polarized PVDF/Carbon Nanotube Nanocomposite Scaffolds for Cell Growth. Materials Research Society Symposia Proceedings, 2015, 1718, 15-20.	0.1	0
47	Resonant Multiple Light Scattering for Photon Harvest Enhancement in Dye-Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2015, 1737, 38.	0.1	0
48	Enhancement of Î²-phase in PVDF by electrospinning. AIP Conference Proceedings, 2015, , .	0.3	31
49	Modeling and analysis of electrorheological suspensions in shear flow. AIP Conference Proceedings, 2015, , .	0.3	2
50	Enhanced X-ray Shielding Ability of Polymerâ€“Nonleaded Metal Composites by Multilayer Structuring. Industrial & Engineering Chemistry Research, 2015, 54, 5968-5973.	1.8	54
51	Nonisothermal crystallization behaviors of nanocomposites of poly(vinylidene fluoride) and multiwalled carbon nanotubes. Polymer, 2015, 62, 11-18.	1.8	26
52	Yield stress analysis of electrorheological suspensions containing coreâ€“shell structured anisotropic poly(methyl methacrylate) microparticles. Polymers for Advanced Technologies, 2015, 26, 117-120.	1.6	11
53	Nonisothermal crystallization behaviors of nanocomposites prepared by in situ polymerization of high-density polyethylene on tungsten oxide particles. Macromolecular Research, 2015, 23, 265-272.	1.0	4
54	Efficient Vacuumâ€Deposited Tandem Organic Solar Cells with Fill Factors Higher Than Singleâ€Junction Subcells. Advanced Energy Materials, 2015, 5, 1500228.	10.2	10

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55	Magnetorheology of Coreâ€"Shell Structured Carbonyl Iron/Polystyrene Foam Microparticles Suspension with Enhanced Stability. Macromolecules, 2015, 48, 7311-7319.	2.2	77
56	Effect of Elongational Deformation on the Î²-Phase Formation of Poly(vinylidene Fluoride)/Multiwalled Carbon Nanotube Composites and Their Piezoelectric Properties. Macromolecular Symposia, 2014, 346, 7-13.	0.4	8
57	Core-Shell Structured Electro- and Magneto-Responsive Materials: Fabrication and Characteristics. Materials, 2014, 7, 7460-7471.	1.3	36
58	Electrorheological activity generation by graphene oxide coating on low-dielectric silica particles. RSC Advances, 2014, 4, 62644-62650.	1.7	30
59	Effect of crosslinking reaction on the electromagnetic interference shielding of a Feâ€"Siâ€"Al alloy (Sendust)/polymer composite at high frequency. Polymers for Advanced Technologies, 2014, 25, 1366-1370.	1.6	14
60	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.	2.3	26
61	Polyethylene/boron-containing composites for radiation shielding. Thermochimica Acta, 2014, 585, 5-9.	1.2	132
62	Resonant Multiple Light Scattering for Enhanced Photon Harvesting in Dyeâ€Sensitized Solar Cells. Advanced Materials, 2014, 26, 5192-5197.	11.1	31
63	Dye-Sensitized Solar Cells: Resonant Multiple Light Scattering for Enhanced Photon Harvesting in Dye-Sensitized Solar Cells (Adv. Mater. 30/2014). Advanced Materials, 2014, 26, 5191-5191.	11.1	1
64	Core-Shell Structured Polystyrene Coated Carbonyl Iron Microspheres and their Magnetorheology. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	22
65	Highly Efficient Vacuum-Processed Organic Solar Cells Containing Thieno[3,2-<i>b</i>]thiophene-thiazole. Journal of Physical Chemistry C, 2014, 118, 11559-11565.	1.5	21
66	Wear behavior of in situ polymerized carbon nanotube/ultra high molecular weight polyethylene composites. Macromolecular Research, 2013, 21, 965-970.	1.0	19
67	Analysis of giant electrorheological fluids. Journal of Colloid and Interface Science, 2013, 402, 90-93.	5.0	12
68	Enhanced charge collection efficiency of dye-sensitized solar cells based on size-tunable hierarchically structured TiO2beads. Journal of Materials Chemistry A, 2013, 1, 1359-1367.	5.2	17
69	Pickering-Emulsion-Polymerized Polystyrene/Fe₂O₃ Composite Particles and Their Magnetoresponsive Characteristics. Langmuir, 2013, 29, 4959-4965.	1.6	122
70	Enhanced Piezoelectric Properties of Electrospun Poly(vinylidene fluoride)/Multiwalled Carbon Nanotube Composites Due to High Î²-Phase Formation in Poly(vinylidene fluoride). Journal of Physical Chemistry C, 2013, 117, 11791-11799.	1.5	195
71	Coreâ€"shell structured graphene oxide-adsorbed anisotropic poly(methyl methacrylate) microparticles and their electrorheology. RSC Advances, 2013, 3, 11723.	1.7	32
72	Facile Fabrication of Chemically Grafted Graphene Oxideâ€"Poly(glycidyl methacrylate) Composite Microspheres and Their Electrorheology. Macromolecular Chemistry and Physics, 2013, 214, 1415-1422.	1.1	28

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73	A simplified model for analyzing the flow behavior of electrorheological fluids containing silica nanoparticle-decorated polyaniline nanofibers. Soft Matter, 2012, 8, 4659.	1.2	50
74	Modeling and Analysis of Electrorheological Suspensions in Shear Flow. Langmuir, 2012, 28, 3077-3084.	1.6	87
75	Low-Temperature Fabrication of TiO₂ Electrodes for Flexible Dye-Sensitized Solar Cells Using an Electrospray Process. ACS Applied Materials & Interfaces, 2012, 4, 3308-3315.	4.0	74
76	Enhanced Interfacial Adhesion between an Amorphous Polymer (Polystyrene) and a Semicrystalline Polymer [a Polyamide (Nylon 6)]. ACS Applied Materials & Interfaces, 2011, 3, 2622-2629.	4.0	12
77	Electrospray Preparation of Hierarchically-structured Mesoporous TiO₂ Spheres for Use in Highly Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 2719-2725.	4.0	116
78	Coreâ€"Shell Structured Carbonyl Iron Microspheres Prepared via Dual-Step Functionality Coatings and Their Magnetorheological Response. ACS Applied Materials & Interfaces, 2011, 3, 3487-3495.	4.0	149
79	Analysis of the flow behavior of electrorheological fluids with the aligned structure reformation. Polymer, 2011, 52, 5695-5698.	1.8	39
80	A new yield stress scaling function for electrorheological fluids. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 241-243.	1.0	50
81	Interfacial Adhesion between an Amorphous Polymer (Polystyrene) and a Semi-crystalline Polymer (Polyamide-nylon 6). , 2011, , .		0
82	Reactive Interfacial Adhesion Between an Amorphous Polymer (Surface-Modified Polystyrene) and a Semicrystalline Polymer (Polyamide (Nylon 6)). International Journal of Material Forming, 2010, 3, 583-586.	0.9	0
83	Development of A Manufacturing Process for An Organicinorganic Nanocomposite and Its Physical Property Characterization. International Journal of Material Forming, 2010, 3, 691-694.	0.9	1
84	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared by <i>In Situ</i> Polymerization of High-Density Polyethylene on Multiwalled Carbon Nanotubes. Macromolecules, 2010, 43, 10545-10553.	2.2	59
85	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.	4.0	114
86	Piezoelectric composite forming and its characterization. International Journal of Material Forming, 2009, 2, 869-871.	0.9	2
87	Preparation of PE/MWNT nanocomposites by In-situ metallocene polymerization. International Journal of Material Forming, 2009, 2, 873-875.	0.9	2
88	Piezoelectric properties of poly(vinylidene fluoride) and carbon nanotube blends: Î^{2}-phase development. Physical Chemistry Chemical Physics, 2009, 11, 10506.	1.3	223
89	Effect of Temperature on the Interfacial Behavior of a Polystyrene-<i>b</i>-poly(methyl methacrylate) Diblock Copolymer at the Air/Water Interface. Langmuir, 2008, 24, 2381-2386.	1.6	36
90	In Situ Compatibilizer Reinforced Interface between an Amorphous Polymer (Polystyrene) and a Semicrystalline Polymer (Polyamide Nylon 6). Macromolecules, 2007, 40, 5953-5958.	2.2	14

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91	Crystallization of a Polypropylene Terpolymer Made by a Zieglerâ˘'Natta Catalyst:â€‰ Formation of Î³-phase. Journal of Physical Chemistry B, 2007, 111, 3571-3575.	1.2	17
92	Organic/inorganic hybrid of polyaniline/BaTiO3 composites and their electrorheological and dielectric characteristics. Journal of Applied Polymer Science, 2007, 105, 1853-1860.	1.3	52
93	Nonisothermal crystallization behaviors of a polyolefin terpolymer and itsÂfoam. Polymer, 2007, 48, 3844-3849.	1.8	20
94	Coating of magnetic particle with polystyrene and its magnetorheological characterization. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4178-4181.	0.8	22
95	In Situ Compatibilizer-Reinforced Interface between a Flexible Polymer (a Functionalized) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3062-3067.	1.6	20
96	Nonwetting Process for Achieving Surface Functionalization of Chemically Stable Poly(tetrafluoroethylene). Langmuir, 2005, 21, 3432-3435.	1.6	18
97	Thermal properties of biaxially deformedin situ composites. Polymer Engineering and Science, 2004, 44, 1419-1428.	1.5	1
98	Enhanced interfacial adhesion between polypropylene and nylon 6 by in situ reactive compatibilization. Polymer, 2004, 45, 8573-8581.	1.8	39
99	Overcoming the â€œUpper Boundâ€•in Polymeric Gas-Separation Membranes. Angewandte Chemie, 2003, 115, 1177-1181.	1.6	2
100	Overcoming the â€œUpper Boundâ€•in Polymeric Gas-Separation Membranes. Angewandte Chemie - International Edition, 2003, 42, 1145-1149.	7.2	9
101	Modeling of the transient viscosity for polymer melts after startup of shearing and elongational deformations. Journal of Applied Polymer Science, 2003, 88, 510-515.	1.3	1
102	Effect of Surface Modification on the Interfacial Tension between the Melts of High-Density Polyethylene and Nylon 66:Â Correlation between Rheology and Morphology. Langmuir, 2003, 19, 2696-2704.	1.6	12
103	Enhancement of Interfacial Adhesion between Polypropylene and Nylon 6:Â Effect of Surface Functionalization by Low-Energy Ion-Beam Irradiation. Macromolecules, 2002, 35, 1267-1275.	2.2	40
104	Surface Modification of Poly(ether imide) by Low-Energy Ion-Beam Irradiation and Its Effect on the Polymer Blend Interface. Langmuir, 2002, 18, 6185-6192.	1.6	10
105	Effect of a compatibilizer on the structural development of a thermotropic liquid crystalline polymer/polystyrene blend. Polymer Engineering and Science, 2002, 42, 951-960.	1.5	9
106	Effect of the compatibilizer on the physical properties of biaxially deformedin situ composites. Polymer Engineering and Science, 2002, 42, 2401-2411.	1.5	4
107	HDPE Surface Functionalization by Low-Energy Ion-Beam Irradiation under a Reactive O2Environment and Its Effect on the HDPE/Nylon 66 Blend. Macromolecules, 2001, 34, 2546-2558.	2.2	31
108	Nonisothermal crystallization behavior of poly(aryl ether ether ketone). Polymer Engineering and Science, 2001, 41, 940-945.	1.5	19

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109	Nonisothermal crystallization kinetics of polytetrafluoroethylene. Polymer Engineering and Science, 2000, 40, 1293-1297.	1.5	24
110	Structure development during flow of ternary blends of a polyamide (nylon 66), a thermotropic liquid crystalline polymer (poly(ester amide)) and a functionalized polypropylene. Polymer, 1999, 40, 4483-4492.	1.8	27
111	Morphology and properties of compatibilized ternary blends (nylon 6/a thermotropic liquid) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 1999, 40, 4441-4450.	1.8	30
112	Deformation of thermotropic liquid crystalline polymer droplets dispersed in a polyamide. Macromolecular Symposia, 1999, 147, 201-208.	0.4	3
113	Structure Development during Flow of Ternary Blends of a Polyamide (Nylon 46), a Thermotropic Liquid Crystalline Polymer (Poly(ester amide)), and a Thermoplastic Elastomer (EPDM). Macromolecules, 1997, 30, 2978-2988.	2.2	48
114	Effect of die geometry on the structural development of a thermotropic liquid crystalline polymer in a thermoplastic elastomer matrix. Polymer Engineering and Science, 1995, 35, 1621-1628.	1.5	15
115	Miscibility and Mechanical Properties of Poly(ether imide)/Liquid Crystalline Poly(ester imide) Blends. International Polymer Processing, 1994, 9, 266-272.	0.3	5
116	Characterization and processing of blends of poly(ether imide) with thermotropic liquid crystalline polymer. Polymer, 1994, 35, 519-531.	1.8	67
117	Influence of the mechanical properties of the dispersed phase upon the behaviour of nylon/rubber blends: crosslinking effect. Polymer, 1993, 34, 1667-1676.	1.8	37