

Yongsok Seo

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115
papers

2,760
citations

28
h-index

48
g-index

120
ext. papers

3,077
ext. citations

5
avg, IF

5.51
L-index

#	Paper	IF	Citations
115	Piezoelectric properties of poly(vinylidene fluoride) and carbon nanotube blends: beta-phase development. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10506-12	3.6	188
114	Enhanced Piezoelectric Properties of Electrospun Poly(vinylidene fluoride)/Multiwalled Carbon Nanotube Composites Due to High β -Phase Formation in Poly(vinylidene fluoride). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11791-11799	3.8	156
113	Core-shell structured carbonyl iron microspheres prepared via dual-step functionality coatings and their magnetorheological response. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3487-95	9.5	135
112	Pickering-emulsion-polymerized polystyrene/Fe ₂ O ₃ composite particles and their magneto-responsive characteristics. <i>Langmuir</i> , 2013 , 29, 4959-65	4	110
111	Electrospray preparation of hierarchically-structured mesoporous TiO ₂ spheres for use in highly efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2719-25	9.5	105
110	Polyethylene/boron-containing composites for radiation shielding. <i>Thermochimica Acta</i> , 2014 , 585, 5-9	2.9	104
109	Sequential coating of magnetic carbonyl iron particles with polystyrene and multiwalled carbon nanotubes and its effect on their magnetorheology. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 54-60	9.5	104
108	Modeling and analysis of electrorheological suspensions in shear flow. <i>Langmuir</i> , 2012 , 28, 3077-84	4	77
107	Low-temperature fabrication of TiO ₂ electrodes for flexible dye-sensitized solar cells using an electrospray process. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3308-15	9.5	66
106	Recent development of electro-responsive smart electrorheological fluids. <i>Soft Matter</i> , 2019 , 15, 3473-3486	3.86	65
105	Magnetorheology of Core-Shell Structured Carbonyl Iron/Polystyrene Foam Microparticles Suspension with Enhanced Stability. <i>Macromolecules</i> , 2015 , 48, 7311-7319	5.5	61
104	Searching for a Stable High-Performance Magnetorheological Suspension. <i>Advanced Materials</i> , 2018 , 30, e1704769	24	60
103	Characterization and processing of blends of poly(ether imide) with thermotropic liquid crystalline polymer. <i>Polymer</i> , 1994 , 35, 519-531	3.9	59
102	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared by In Situ Polymerization of High-Density Polyethylene on Multiwalled Carbon Nanotubes. <i>Macromolecules</i> , 2010 , 43, 10545-10553	5.5	55
101	Organic/inorganic hybrid of polyaniline/BaTiO ₃ composites and their electrorheological and dielectric characteristics. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1853-1860	2.9	49
100	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). <i>Macromolecules</i> , 1997 , 30, 2978-2988	5.5	46
99	A simplified model for analyzing the flow behavior of electrorheological fluids containing silica nanoparticle-decorated polyaniline nanofibers. <i>Soft Matter</i> , 2012 , 8, 4659	3.6	44

98	A new yield stress scaling function for electrorheological fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011 , 166, 241-243	2.7	41
97	Enhanced interfacial adhesion between polypropylene and nylon 6 by in situ reactive compatibilization. <i>Polymer</i> , 2004 , 45, 8573-8581	3.9	36
96	Pure Piezoelectricity Generation by a Flexible Nanogenerator Based on Lead Zirconate Titanate Nanofibers. <i>ACS Omega</i> , 2019 , 4, 2610-2617	3.9	35
95	Enhancement of Interfacial Adhesion between Polypropylene and Nylon 6: Effect of Surface Functionalization by Low-Energy Ion-Beam Irradiation. <i>Macromolecules</i> , 2002 , 35, 1267-1275	5.5	35
94	Analysis of the flow behavior of electrorheological fluids with the aligned structure reformation. <i>Polymer</i> , 2011 , 52, 5695-5698	3.9	34
93	Synthesis of semiconducting poly(diphenylamine) particles and analysis of their electrorheological properties. <i>Polymer</i> , 2017 , 119, 40-49	3.9	33
92	Enhanced X-ray Shielding Ability of Polymer/Nonleaded Metal Composites by Multilayer Structuring. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5968-5973	3.9	33
91	Influence of the mechanical properties of the dispersed phase upon the behaviour of nylon/rubber blends: crosslinking effect. <i>Polymer</i> , 1993 , 34, 1667-1676	3.9	33
90	Facile fabrication of core/shell structured SiO ₂ /polypyrrole nanoparticles with surface modification and their electrorheology. <i>RSC Advances</i> , 2016 , 6, 56495-56502	3.7	31
89	Static yield stress of a magnetorheological fluid containing Pickering emulsion polymerized Fe ₂ O ₃ /polystyrene composite particles. <i>Journal of Colloid and Interface Science</i> , 2016 , 463, 272-8	9.3	30
88	Effect of temperature on the interfacial behavior of a polystyrene-b-poly(methyl methacrylate) diblock copolymer at the air/water interface. <i>Langmuir</i> , 2008 , 24, 2381-6	4	30
87	Core-Shell Structured Electro- and Magneto-Responsive Materials: Fabrication and Characteristics. <i>Materials</i> , 2014 , 7, 7460-7471	3.5	28
86	Electrorheological activity generation by graphene oxide coating on low-dielectric silica particles. <i>RSC Advances</i> , 2014 , 4, 62644-62650	3.7	28
85	Core-shell structured graphene oxide-adsorbed anisotropic poly(methyl methacrylate) microparticles and their electrorheology. <i>RSC Advances</i> , 2013 , 3, 11723	3.7	28
84	HDPE Surface Functionalization by Low-Energy Ion-Beam Irradiation under a Reactive O ₂ Environment and Its Effect on the HDPE/Nylon 66 Blend. <i>Macromolecules</i> , 2001 , 34, 2546-2558	5.5	28
83	Morphology and properties of compatibilized ternary blends (nylon 6/a thermotropic liquid crystalline polymer/a functionalized polypropylene) processed under different conditions. <i>Polymer</i> , 1999 , 40, 4441-4450	3.9	28
82	Resonant multiple light scattering for enhanced photon harvesting in dye-sensitized solar cells. <i>Advanced Materials</i> , 2014 , 26, 5192-7	24	27
81	High-Performance Magnetorheological Suspensions of Pickering-Emulsion-Polymerized Polystyrene/FeO Particles with Enhanced Stability. <i>Langmuir</i> , 2018 , 34, 2807-2814	4	26

80	Structure development during flow of ternary blends of a polyamide (nylon 66), a thermotropic liquid crystalline polymer (poly(ester amide)) and a functionalized polypropylene. <i>Polymer</i> , 1999 , 40, 4483-4492	3.9	26
79	Facile Fabrication of Chemically Grafted Graphene Oxide/Poly(glycidyl methacrylate) Composite Microspheres and Their Electrorheology. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 1415-1422	2.6	25
78	Nonisothermal crystallization kinetics of polytetrafluoroethylene. <i>Polymer Engineering and Science</i> , 2000 , 40, 1293-1297	2.3	23
77	Nonisothermal crystallization behaviors of nanocomposites of poly(vinylidene fluoride) and multiwalled carbon nanotubes. <i>Polymer</i> , 2015 , 62, 11-18	3.9	22
76	Efficient Vacuum-Deposited Ternary Organic Solar Cells with Broad Absorption, Energy Transfer, and Enhanced Hole Mobility. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1214-9	9.5	21
75	Modeling and analysis of an electrorheological flow behavior containing semiconducting graphene oxide/polyaniline composite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 457, 363-367	5.1	21
74	Core-shell structured mesoporous magnetic nanoparticles and their magnetorheological response. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 524, 79-86	5.1	20
73	Core-Shell Structured Polystyrene Coated Carbonyl Iron Microspheres and their Magnetorheology. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	19
72	Highly Efficient Vacuum-Processed Organic Solar Cells Containing Thieno[3,2-b]thiophene-thiazole. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11559-11565	3.8	19
71	Enhancement of β phase in PVDF by electrospinning 2015 ,		19
70	Nonisothermal crystallization behaviors of a polyolefin terpolymer and its foam. <i>Polymer</i> , 2007 , 48, 3844-3849	3.9	18
69	Coating of magnetic particle with polystyrene and its magnetorheological characterization. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 4178-4181	1.6	18
68	Nonisothermal crystallization behavior of poly(aryl ether ether ketone). <i>Polymer Engineering and Science</i> , 2001 , 41, 940-945	2.3	18
67	Wear behavior of in situ polymerized carbon nanotube/ultra high molecular weight polyethylene composites. <i>Macromolecular Research</i> , 2013 , 21, 965-970	1.9	17
66	Enhanced charge collection efficiency of dye-sensitized solar cells based on size-tunable hierarchically structured TiO ₂ beads. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1359-1367	13	17
65	In situ compatibilizer-reinforced interface between a flexible polymer (a functionalized polypropylene) and a rodlike polymer (a thermotropic liquid crystalline polymer). <i>Langmuir</i> , 2006 , 22, 3062-7	4	17
64	Microwave Absorption and Shielding Property of Fe-Si-Al Alloy/MWCNT/Polymer Nanocomposites. <i>Langmuir</i> , 2019 , 35, 6950-6955	4	16
63	Polymeric Nanoparticle-Coated Pickering Emulsion-Synthesized Conducting Polyaniline Hybrid Particles and Their Electrorheological Study. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44811-44819	8.5	16

62	Crystallization of a polypropylene terpolymer made by a Ziegler-Natta catalyst: formation of gamma-phase. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3571-5	3.4	16
61	Effect of Molecular Structure Change on the Melt Rheological Properties of a Polyamide (Nylon 6). <i>ACS Omega</i> , 2018 , 3, 16549-16555	3.9	16
60	Suspensions of Hollow Polydivinylbenzene Nanoparticles Decorated with Fe ₃ O ₄ Nanoparticles as Magnetorheological Fluids for Microfluidics Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6939-6947	5.6	15
59	Effect of die geometry on the structural development of a thermotropic liquid crystalline polymer in a thermoplastic elastomer matrix. <i>Polymer Engineering and Science</i> , 1995 , 35, 1621-1628	2.3	15
58	Fabrication and magnetic stimuli-response of polydopamine-coated core-shell structured carbonyl iron microspheres. <i>Colloid and Polymer Science</i> , 2016 , 294, 329-337	2.4	14
57	Nonwetting process for achieving surface functionalization of chemically stable poly(tetrafluoroethylene). <i>Langmuir</i> , 2005 , 21, 3432-5	4	13
56	Enhanced interfacial adhesion between an amorphous polymer (polystyrene) and a semicrystalline polymer [a polyamide (nylon 6)]. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2622-9	9.5	12
55	Effect of Surface Modification on the Interfacial Tension between the Melts of High-Density Polyethylene and Nylon 66: Correlation between Rheology and Morphology. <i>Langmuir</i> , 2003 , 19, 2696-2704	4.04	12
54	Hierarchically Structured Fe ₃ O ₄ Nanoparticles for High-Performance Magnetorheological Fluids with Long-Term Stability. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10931-10940	5.6	12
53	Analysis of the flow behavior of electrorheological fluids containing polypyrrole nanoparticles or polypyrrole/silica nanocomposite particles. <i>Rheologica Acta</i> , 2020 , 59, 415-423	2.3	11
52	Effect of crosslinking reaction on the electromagnetic interference shielding of a Fe ₃ SiAl alloy (Sendust)/polymer composite at high frequency. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1366-1370	2.2	11
51	In Situ Compatibilizer Reinforced Interface between an Amorphous Polymer (Polystyrene) and a Semicrystalline Polymer (Polyamide Nylon 6). <i>Macromolecules</i> , 2007 , 40, 5953-5958	5.5	11
50	High-Performance Magnetorheological Suspensions of Fe ₃ O ₄ -deposited Carbon Nanotubes with Enhanced Stability. <i>MRS Advances</i> , 2019 , 4, 217-224	0.7	10
49	Efficient Vacuum-Deposited Tandem Organic Solar Cells with Fill Factors Higher Than Single-Junction Subcells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500228	21.8	10
48	Surface Modification of Poly(ether imide) by Low-Energy Ion-Beam Irradiation and Its Effect on the Polymer Blend Interface. <i>Langmuir</i> , 2002 , 18, 6185-6192	4	10
47	Yield stress analysis of electrorheological suspensions containing core-shell structured anisotropic poly(methyl methacrylate) microparticles. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 117-120	3.2	9
46	Optimum Thermoelectric Performance of BismuthAntimonyTelluride Alloy/PEDOT:PSS Nanocomposites Prepared by an Innovative Redox Process. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8219-8228	6.1	9
45	Core-shell-structured Fe ₃ O ₄ nanocomposite particles for high-performance/stable magnetorheological fluids: preparation and characteristics. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 608-631	2.2	9

44	Synthesis and characterization of isosorbide based polycarbonates. <i>Polymer</i> , 2019 , 179, 121685	3.9	8
43	Analysis of giant electrorheological fluids. <i>Journal of Colloid and Interface Science</i> , 2013 , 402, 90-3	9.3	8
42	Effect of Elongational Deformation on the β Phase Formation of Poly(vinylidene Fluoride)/Multiwalled Carbon Nanotube Composites and Their Piezoelectric Properties. <i>Macromolecular Symposia</i> , 2014 , 346, 7-13	0.8	8
41	Effect of a compatibilizer on the structural development of a thermotropic liquid crystalline polymer/polystyrene blend. <i>Polymer Engineering and Science</i> , 2002 , 42, 951-960	2.3	8
40	Overcoming the "upper bound" in polymeric gas-separation membranes. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1145-9	16.4	8
39	Rheological and mechanical properties of a novel polyamide 6 synthesized by anionic polymerization of ϵ caprolactam in a twin-screw extruder. <i>Polymer</i> , 2019 , 177, 196-201	3.9	7
38	Multilayer Structuring of Nonleaded Metal (BiSn)/Polymer/Tungsten Composites for Enhanced γ Ray Shielding. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901448	3.5	7
37	Effect of Diamine Addition on Structural Features and Physical Properties of Polyamide 6 Synthesized by Anionic Ring-Opening Polymerization of ϵ Caprolactam. <i>ACS Omega</i> , 2019 , 4, 17117-17124	2.9	7
36	Efficient dye-sensitized solar cells with broad absorption and enhanced photo-current generation. <i>RSC Advances</i> , 2016 , 6, 56747-56755	3.7	6
35	Novel Dual-Curing Process for a Stereolithographically Printed Part Triggers a Remarkably Improved Interlayer Adhesion and Excellent Mechanical Properties. <i>Langmuir</i> , 2020 , 36, 9250-9258	4	6
34	Binder-Free High-Performance MXene Supercapacitors Fabricated by a Simple Electrospray Deposition Technique. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000750	4.6	6
33	Elastomers built up through the β stacking association of polycyclic planar aromatic diimides. <i>RSC Advances</i> , 2017 , 7, 46195-46200	3.7	5
32	Multilayer-Structured Non-leaded Metal/Polymer Composites for Enhanced X-ray Shielding. <i>MRS Advances</i> , 2018 , 3, 1789-1797	0.7	5
31	Miscibility and Mechanical Properties of Poly(ether imide)/Liquid Crystalline Poly(ester imide) Blends. <i>International Polymer Processing</i> , 1994 , 9, 266-272	1	5
30	Effect of Particle Shape Anisotropy on the Performance and Stability of Magnetorheological Fluids. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2526-2533	4	5
29	Nonisothermal crystallization behaviors of nanocomposites prepared by in situ polymerization of high-density polyethylene on tungsten oxide particles. <i>Macromolecular Research</i> , 2015 , 23, 265-272	1.9	4
28	Effect of the compatibilizer on the physical properties of biaxially deformed in situ composites. <i>Polymer Engineering and Science</i> , 2002 , 42, 2401-2411	2.3	4
27	A facile synthetic route to novel thermotropic liquid crystalline polymers and characterization of their mesophases. <i>RSC Advances</i> , 2017 , 7, 29772-29778	3.7	3

26	Synthesis of novel thermotropic liquid crystalline polymers by a reactive extrusion process.. <i>RSC Advances</i> , 2019 , 9, 12189-12194	3.7	3
25	Long-Living Anions Could Dramatically Change the Overall Physical Properties of a Polyamide (Nylon 6) Synthesized by a Novel Process. <i>ACS Omega</i> , 2020 , 5, 17463-17470	3.9	3
24	Deformation of thermotropic liquid crystalline polymer droplets dispersed in a polyamide. <i>Macromolecular Symposia</i> , 1999 , 147, 201-208	0.8	3
23	Synergistic Effects of Nonmagnetic Carbon Nanotubes on the Performance and Stability of Magnetorheological Fluids Containing Carbon Nanotube-CoFeNi Nanocomposite Particles. <i>Nano Letters</i> , 2021 , 21, 4973-4980	11.5	3
22	Cobalt-Based Electrolytes for Efficient Flexible Dye-Sensitized Solar Cells. <i>MRS Advances</i> , 2019 , 4, 481-489	4.7	2
21	Fracture Mechanism Change at a Heterogeneous Polymer-Polymer Interface Reinforced with in Situ Graft Copolymers. <i>Langmuir</i> , 2018 , 34, 11027-11033	4	2
20	Analysis of the static yield stress for giant electrorheological fluids 2017 , 29, 215-218		2
19	Preparation of PE/MWNT nanocomposites by In-situ metallocene polymerization. <i>International Journal of Material Forming</i> , 2009 , 2, 873-875	2	2
18	Overcoming the Upper Bound in Polymeric Gas-Separation Membranes. <i>Angewandte Chemie</i> , 2003 , 115, 1177-1181	3.6	2
17	Porous Fe ₃ O ₄ submicron particles for use in magnetorheological fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 613, 126066	5.1	2
16	Static yield stress of a magnetorheological fluid containing pickering emulsion polymerized Fe ₃ O ₄ /polystyrene composite particles 2019 ,		1
15	Dye-Sensitized Solar Cells: Resonant Multiple Light Scattering for Enhanced Photon Harvesting in Dye-Sensitized Solar Cells (Adv. Mater. 30/2014). <i>Advanced Materials</i> , 2014 , 26, 5191-5191	24	1
14	Piezoelectric composite forming and its characterization. <i>International Journal of Material Forming</i> , 2009 , 2, 869-871	2	1
13	Thermal properties of biaxially deformed in situ composites. <i>Polymer Engineering and Science</i> , 2004 , 44, 1419-1428	2.3	1
12	Modeling of the transient viscosity for polymer melts after startup of shearing and elongational deformations. <i>Journal of Applied Polymer Science</i> , 2003 , 88, 510-515	2.9	1
11	Nonisothermal Crystallization Behaviors of Structure-Modified Polyamides (Nylon 6s). <i>ACS Omega</i> , 2020 , 5, 29325-29332	3.9	1
10	Nonisothermal Crystallization Behaviors of Structure-Modified Polyamides (Nylon 6s). <i>ACS Omega</i> , 2020 , 5, 29325-29332	3.9	1
9	Modeling of Electrorheological Fluids 2022 , 140-151		1

8	Strong and Stable Magnetorheological Fluids Based on Flaky Sendust-CoFeNi Nanocomposite Particles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26581-26589	9.5	1
7	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.. <i>ACS Omega</i> , 2022 , 7, 3341-3347	3.9	0
6	Effects of non-magnetic carbon nanotubes on the performance and stability of magnetorheological fluids containing FeCo-deposited carbon nanotubes ¹		0
5	Potential of Polarized PVDF/Carbon Nanotube Nanocomposite Scaffolds for Cell Growth. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1718, 15-20		
4	Resonant Multiple Light Scattering for Photon Harvest Enhancement in Dye-Sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1737, 38		
3	Reactive Interfacial Adhesion Between an Amorphous Polymer (Surface-Modified Polystyrene) and a Semicrystalline Polymer (Polyamide (Nylon 6)). <i>International Journal of Material Forming</i> , 2010 , 3, 583-586		
2	Development of A Manufacturing Process for An Organicinorganic Nanocomposite and Its Physical Property Characterization. <i>International Journal of Material Forming</i> , 2010 , 3, 691-694		2
1	Iconography connecting art and rheology based on Da Vinci paintings 2018 , 30, 317-321		