Ramanan Krishnamoorti

List of Publications by Year
in descending order

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174 papers	12,871 citations	20797 60 h-index	24232 110 g-index
176 all docs	176 docs citations	176 times ranked	9762 citing authors

#	Article	IF	Citations
1	Structure and Dynamics of Polymer-Layered Silicate Nanocomposites. Chemistry of Materials, 1996, 8, 1728-1734.	3.2	864
2	Rheology of End-Tethered Polymer Layered Silicate Nanocomposites. Macromolecules, 1997, 30, 4097-4102.	2.2	742
3	Dispersion of Functionalized Carbon Nanotubes in Polystyrene. Macromolecules, 2002, 35, 8825-8830.	2.2	579
4	Linear Viscoelasticity of Disordered Polystyreneâ^'Polyisoprene Block Copolymer Based Layered-Silicate Nanocomposites. Macromolecules, 2000, 33, 3739-3746.	2.2	520
5	Nanocomposites: Structure, Phase Behavior, and Properties. Annual Review of Chemical and Biomolecular Engineering, 2010, 1, 37-58.	3.3	424
6	Small-Angle Neutron Scattering from Surfactant-Assisted Aqueous Dispersions of Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 9902-9903.	6.6	395
7	Rheology of polymer layered silicate nanocomposites. Current Opinion in Colloid and Interface Science, 2001, 6, 464-470.	3.4	331
8	Self-Assembly of Alkylammonium Chains on Montmorillonite:Â Effect of Chain Length, Head Group Structure, and Cation Exchange Capacity. Chemistry of Materials, 2007, 19, 59-68.	3.2	248
9	Temperature dependence of polymer crystalline morphology in nylon 6/montmorillonite nanocomposites. Polymer, 2001, 42, 09975-09985.	1.8	234
10	Polymer nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 3252-3256.	2.4	226
11	Shear response of layered silicate nanocomposites. Journal of Chemical Physics, 2001, 114, 4968-4973.	1.2	222
12	Strategies for Dispersing Nanoparticles in Polymers. MRS Bulletin, 2007, 32, 341-347.	1.7	221
13	Injectable Nanocomposites of Single-Walled Carbon Nanotubes and Biodegradable Polymers for Bone Tissue Engineering. Biomacromolecules, 2006, 7, 2237-2242.	2.6	175
14	Single-Walled Carbon Nanotube Dispersions in Poly(ethylene oxide). Advanced Functional Materials, 2005, 15, 1832-1838.	7.8	173
15	Conformations and Structures of Poly(oxyethylene) Melts from Molecular Dynamics Simulations and Small-Angle Neutron Scattering Experiments. Macromolecules, 1996, 29, 3462-3469.	2.2	165
16	Nonlinear Viscoelastic Properties of Layered-Silicate-Based Intercalated Nanocomposites. Macromolecules, 2003, 36, 4443-4451.	2.2	165
17	Intercalation Kinetics of Long Polymers in 2 nm Confinements. Macromolecules, 2000, 33, 7955-7966.	2.2	162
18	Thermodynamic interactions in model polyolefin blends obtained by small-angle neutron scattering. Macromolecules, 1992, 25, 6137-6147.	2.2	157

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19	Understanding surfactant aided aqueous dispersion of multi-walled carbon nanotubes. Journal of Colloid and Interface Science, 2011, 354, 144-151.	5.0	150
20	Glass transition of polymer/single-walled carbon nanotube composite films. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3339-3345.	2.4	148
21	Isothermal Crystallization of Nylon-6/Montmorillonite Nanocomposites. Macromolecules, 2004, 37, 4554-4561.	2.2	147
22	Small Angle Neutron Scattering Investigations of Melt Miscibility and Phase Segregation in Blends of Linear and Branched Polyethylenes as a Function of the Branch Content. Macromolecules, 1997, 30, 561-566.	2.2	143
23	Partitioning of Nonsteroidal Antiinflammatory Drugs in Lipid Membranes: A Molecular Dynamics Simulation Study. Biophysical Journal, 2010, 98, 586-595.	0.2	139
24	Disorientation Kinetics of Aligned Polymer Layered Silicate Nanocomposites. Macromolecules, 2003, 36, 4188-4194.	2.2	136
25	Structure and dynamics of carbon black-filled elastomers. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 256-275.	2.4	134
26	Structural Origin of Thermodynamic Interactions in Blends of Saturated Hydrocarbon Polymers. Macromolecules, 1994, 27, 3073-3081.	2.2	132
27	Regular and Irregular Mixing in Blends of Saturated Hydrocarbon Polymers. Macromolecules, 1995, 28, 1260-1270.	2.2	130
28	Evolution of Microstructure during Shear Alignment in a Polystyrene-Polyisoprene Lamellar Diblock Copolymer. Macromolecules, 1995, 28, 4464-4474.	2.2	120
29	Elastic modulus of single-walled carbon nanotube/poly(methyl methacrylate) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2286-2293.	2.4	120
30	Dispersion of Single-Walled Carbon Nanotubes in Poly(Îµ-caprolactone). Macromolecules, 2007, 40, 1538-1545.	2.2	118
31	Influence of Layered Silicates on the Phase-Separated Morphology of PSâˆ’PVME Blends. Macromolecules, 2003, 36, 7256-7267.	2.2	116
32	Rheological behaviour and mechanical characterization of injectable poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (fuma 2005, 16, S531-S538.	1.3	109
33	Anomalous mixing behavior of polyisobutylene with other polyolefins. Macromolecules, 1995, 28, 1252-1259.	2.2	108
34	Thermodynamics of Mixing for Blends of Model Ethylene-Butene Copolymers. Macromolecules, 1994, 27, 3896-3901.	2.2	103
35	Technology Tomorrow: Extracting the Benefits of Nanotechnology for the Oil Industry. JPT, Journal of Petroleum Technology, 2006, 58, 24-26.	0.1	98
36	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. Nature Communications, 2014, 5, 3589.	5.8	97

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37	Insight into NSAID-induced membrane alterations, pathogenesis and therapeutics: Characterization of interaction of NSAIDs with phosphatidylcholine. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 994-1002.	1.2	95
38	Effect of deuterium substitution on thermodynamic interactions in polymer blends. Macromolecules, 1993, 26, 1137-1143.	2.2	94
39	Non-isothermal crystallization of in situ polymerized poly(Îµ-caprolactone) functionalized-SWNT nanocomposites. Polymer, 2005, 46, 8796-8804.	1.8	94
40	Pure Component Properties and Mixing Behavior in Polyolefin Blends. Macromolecules, 1996, 29, 367-376.	2.2	93
41	Dynamics of Shear Alignment in a Lamellar Diblock Copolymer:Â Interplay of Frequency, Strain Amplitude, and Temperature. Macromolecules, 1996, 29, 875-884.	2.2	92
42	Mechanical response and rheological properties of polycarbonate layered-silicate nanocomposites. Polymer Engineering and Science, 2004, 44, 825-837.	1.5	91
43	Rheology of polymer carbon nanotubes composites. Soft Matter, 2013, 9, 9515.	1.2	90
44	Diffusive Dynamics of Nanoparticles in Arrays of Nanoposts. ACS Nano, 2013, 7, 5122-5130.	7.3	89
45	Polymer-Functionalized Nanoparticles for Improving Waterflood Sweep Efficiency: Characterization and Transport Properties. Industrial & Engineering Chemistry Research, 2011, 50, 13030-13036.	1.8	80
46	Phase Behavior of Highly Immiscible Polymer Blends Stabilized by a Balanced Block Copolymer Surfactant. Macromolecules, 2003, 36, 6537-6548.	2.2	75
47	Melt Chain Dimensions of Poly(ethyleneâ^'1-butene) Copolymers via Small Angle Neutron Scattering. Macromolecules, 1997, 30, 4973-4977.	2.2	74
48	Phase Behavior of PSâ^'PVME Nanocomposites. Macromolecules, 2004, 37, 507-515.	2.2	73
49	Tailored Nanocomposites of Polypropylene with Layered Silicates. Macromolecules, 2009, 42, 3795-3803.	2.2	73
50	Wettingâ€“Dewetting and Dispersionâ€“Aggregation Transitions Are Distinct for Polymer Grafted Nanoparticles in Chemically Dissimilar Polymer Matrix. Journal of the American Chemical Society, 2015, 137, 10624-10631.	6.6	73
51	The compositional dependence of thermodynamic interactions in blends of model polyolefins. Journal of Chemical Physics, 1994, 100, 3894-3904.	1.2	70
52	Rheological properties of diblock copolymer/layered-silicate nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1434-1443.	2.4	70
53	Structure of Polymer Tethered Highly Grafted Nanoparticles. Macromolecules, 2011, 44, 8129-8135.	2.2	69
54	Effect of pH and Ibuprofen on the Phospholipid Bilayer Bending Modulus. Journal of Physical Chemistry B, 2010, 114, 8061-8066.	1.2	67

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55	Size-Dependent Dynamics of Nanoparticles in Unentangled Polyelectrolyte Solutions. ACS Macro Letters, 2015, 4, 1169-1173.	2.3	67
56	Structural Association of Nonsteroidal Anti-Inflammatory Drugs with Lipid Membranes. Journal of the American Chemical Society, 2012, 134, 19669-19676.	6.6	65
57	Strain Hardening in Model Polymer Brushes under Shear. Langmuir, 2001, 17, 1448-1452.	1.6	62
58	Steady Shear Response of Carbon Nanotube Networks Dispersed in Poly(ethylene oxide). Macromolecules, 2008, 41, 5333-5338.	2.2	62
59	Simulation insights on the structure of nanoscopically confined poly(ethylene oxide). Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3285-3298.	2.4	61
60	Viscoelastic properties of silica-grafted poly(styreneâ€“acrylonitrile) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2014-2023.	2.4	60
61	Dynamic consequences of the fractal network of nanotube-poly(ethylene oxide) nanocomposites. Physical Review E, 2007, 75, 050403.	0.8	60
62	Segmental Dynamics of Head-to-Head Polypropylene and Polyisobutylene in Their Blend and Pure Components. Macromolecules, 2005, 38, 7721-7729.	2.2	58
63	Smallâ€angle neutron scattering by partially deuterated polymers and their blends. Journal of Chemical Physics, 1994, 100, 3905-3910.	1.2	57
64	Hierarchical Polymerâ€“Nanotube Composites. Advanced Materials, 2007, 19, 3850-3853.	11.1	57
65	Templating of cylindrical and spherical block copolymer microdomains by layered silicates. Journal of Chemical Physics, 2001, 115, 7166-7174.	1.2	53
66	Deuteration Effects and Solubility Parameter Ordering in Blends of Saturated Hydrocarbon Polymers. Macromolecules, 1994, 27, 2574-2579.	2.2	52
67	Component Dynamics in Miscible Blends:â€‰ Equally and Unequally Entangled Polyisoprene/Polyvinylethylene. Macromolecules, 1997, 30, 1127-1137.	2.2	52
68	The role of interfacial interactions in the dynamic mechanical response of functionalized SWNTâ€“PS nanocomposites. Polymer, 2007, 48, 3540-3545.	1.8	52
69	Hierarchical Structure of Carbon Nanotube Networks. Journal of the American Chemical Society, 2008, 130, 6934-6935.	6.6	52
70	Thermoset Blends of an Epoxy Resin and Polydicyclopentadiene. Macromolecules, 2016, 49, 8960-8970.	2.2	51
71	Thermodynamic interactions and correlations in mixtures of two homopolymers and a block copolymer by small angle neutron scattering. Journal of Chemical Physics, 1993, 99, 10011-10020.	1.2	50
72	Small-Angle Neutron Scattering Study of a Cylinder-to-Sphere Orderâ˜Order Transition in Block Copolymers. Macromolecules, 2000, 33, 3803-3809.	2.2	50

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73	Chlorophenyl pendant decorated graphene sheet as a potential antimicrobial agent: synthesis and characterization. Journal of Materials Chemistry, 2012, 22, 22481.	6.7	50
74	Dispersion of Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 20861-20868.	1.5	49
75	Anomalous Attractive Interactions in Polypropylene Blends. Macromolecules, 1997, 30, 3036-3041.	2.2	48
76	Role of Strain in Controlling Lamellar Orientation during Flow Alignment of Diblock Copolymers. Macromolecules, 1996, 29, 1359-1362.	2.2	47
77	Effect of silicate layer anisotropy on cylindrical and spherical microdomain ordering in block copolymer nanocomposites. Journal of Chemical Physics, 2001, 115, 7175-7181.	1.2	47
78	Structure and melt rheology of polystyrene-based layered silicate nanocomposites. Nanotechnology, 2005, 16, S514-S521.	1.3	46
79	Mobility of Nanoparticles in Semidilute Polyelectrolyte Solutions. Macromolecules, 2014, 47, 5328-5333.	2.2	46
80	Pathway and Kinetics of Cylinder-to-Sphere Orderâ˜'Order Transition in Block Copolymers. Macromolecules, 2000, 33, 3810-3817.	2.2	45
81	Thermodynamics and Phase Behavior of Block Copolymer/Homopolymer Blends with Attractive and Repulsive Interactions. Macromolecules, 2002, 35, 7748-7757.	2.2	45
82	Facile Method of Controlling Monomer Sequence Distributions in Random Copolymers. Advanced Materials, 2007, 19, 2877-2883.	11.1	45
83	Melt-state polymer chain dimensions as a function of temperature. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1768-1776.	2.4	44
84	Morphological Behavior of Thin Linear Low-Density Polyethylene Films. Macromolecules, 2008, 41, 7131-7140.	2.2	44
85	Poly(ethylene oxide) crystallization in single walled carbon nanotube based nanocomposites: Kinetics and structural consequences. Polymer, 2011, 52, 4938-4946.	1.8	41
86	Diffusive dynamics of nanoparticles in aqueous dispersions. Soft Matter, 2012, 8, 11933.	1.2	41
87	Structure and Band-Gap Design of a New Series of Light-Emitting Poly(cyanofluorene-alt-o/m/p-phenylenevinylene)-Based Copolymers for Light-Emitting Diodes. Macromolecules, 2006, 39, 3848-3854.	2.2	40
88	Shear-induced orientation in polymer/clay dispersions via in situ X-ray scattering. Polymer, 2010, 51, 4916-4927.	1.8	38
89	Synthesis and characterization of bi-functionalized graphene and expanded graphite using n-butyl lithium and their use for efficient water soluble dye adsorption. Journal of Materials Chemistry A, 2013, 1, 8144.	5.2	38
90	Concurrent curing kinetics of an anhydride-cured epoxy resin and polydicyclopentadiene. Polymer, 2015, 69, 204-214.	1.8	38

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91	Nanoparticle diffusion in crowded and confined media. Soft Matter, 2016, 12, 8407-8416.	1.2	38
92	Small-Angle Neutron Scattering Studies of Phospholipidâ˜'NSAID Adducts. Langmuir, 2010, 26, 5734-5745.	1.6	37
93	Scratch behavior of epoxy coating containing self-assembled zirconium phosphate smectic layers. Polymer, 2017, 112, 252-263.	1.8	37
94	Thermodynamic Interactions in Multicomponent Polymer Blends. Macromolecules, 1996, 29, 661-669.	2.2	36
95	Viscoelastic Characterization of an Orderâ˜'Order Transition in a Mixture of Di- and Triblock Copolymers. Macromolecules, 1999, 32, 4088-4097.	2.2	36
96	Structure and Dynamics of Interacting Nanoparticles in Semidilute Polymer Solutions. Macromolecules, 2016, 49, 6568-6577.	2.2	36
97	Graphene Nanocomposites with High Molecular Weight Poly(Îµ-caprolactone) Grafts: Controlled Synthesis and Accelerated Crystallization. ACS Macro Letters, 2016, 5, 278-282.	2.3	36
98	Transport and Dispersion of Nanoparticles in Periodic Nanopost Arrays. ACS Nano, 2014, 8, 4221-4227.	7.3	35
99	Mechanical Reinforcement of Epoxy with Self-Assembled Synthetic Clay in Smectic Order. ACS Applied Materials & Interfaces, 2014, 6, 10188-10195.	4.0	35
100	Combinatorial methods for polymer materials science: Phase behavior of nanocomposite blend films. Polymer Engineering and Science, 2002, 42, 1836-1840.	1.5	34
101	A surfactant dispersed SWCNT-polystyrene composite characterized for electrical and mechanical properties. Composites Part A: Applied Science and Manufacturing, 2010, 41, 842-849.	3.8	34
102	Diffusive dynamics of nanoparticles in ultra-confined media. Soft Matter, 2015, 11, 7515-7524.	1.2	34
103	Controlled Synthesis of Nitrogen-Doped Graphene from a Heteroatom Polymer and Its Mechanism of Formation. Chemistry of Materials, 2015, 27, 716-725.	3.2	33
104	Designing Balanced Surfactants for Mixtures of Immiscible Polymers. Macromolecules, 2001, 34, 6557-6560.	2.2	31
105	pH-Induced Re-entrant Microstructural Transitions in Cationic Surfactantâ€"Hydrotrope Mixtures. Langmuir, 2016, 32, 655-663.	1.6	31
106	Ordering Kinetics and Alignment of Block Copolymer Lamellae under Shear Flow. Macromolecules, 1999, 32, 3695-3711.	2.2	30
107	Viscoelastic and Dielectric Behavior of a Polyisoprene/Poly(4-tert-butyl styrene) Miscible Blend. Macromolecules, 2007, 40, 5389-5399.	2.2	27
108	Thermal mismatch strains in sidewall functionalized carbon nanotube/polystyrene nanocomposites. Journal of Chemical Physics, 2005, 122, 124708.	1.2	26

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109	Polymer Nanocomposites: Introduction. ACS Symposium Series, 2001, , 1-5.	0.5	25
110	Confined Dynamics of Grafted Polymer Chains in Solutions of Linear Polymer. Macromolecules, 2017, 50, 7372-7379.	2.2	23
111	Thermodynamic interactions in blends of poly(4-tert-butyl styrene) and polyisoprene by small-angle neutron scattering. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3204-3217.	2.4	22
112	Rheology and processing of polymer nanocomposites. Reviews in Chemical Engineering, 2010, 26, .	2.3	22
113	Nanoparticle dispersion in disordered porous media with and without polymer additives. Soft Matter, 2016, 12, 5676-5683.	1.2	22
114	Conducting Instant Adhesives by Grafting of Silane Polymer onto Expanded Graphite. ACS Applied Materials & Interfaces, 2014, 6, 16097-16105.	4.0	21
115	Interfacial Activity of Poly[oligo(ethylene oxide)â€“monomethyl ether methacrylate]-Grafted Silica Nanoparticles. Industrial & Engineering Chemistry Research, 2015, 54, 3648-3656.	1.8	21
116	Thermal and Rheological Analysis of Polystyrene-Grafted Silica Nanocomposites. Macromolecules, 2020, 53, 2123-2135.	2.2	21
117	Technological Options for Direct Air Capture: A Comparative Process Engineering Review. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 279-300.	3.3	21
118	Some light on the concept of unreactivity arising from active center association in anionic polymerizations. Polymer International, 1994, 33, 217-231.	1.6	20
119	Use of DMF as Solvent Allows for the Facile Synthesis of Soluble MEHâ^PPV. Macromolecules, 2004, 37, 8883-8887.	2.2	20
120	Oriented Single-Walled Carbon Nanotubesâ€“Poly(ethylene oxide) Nanocomposites. Macromolecules, 2012, 45, 9357-9363.	2.2	19
121	Viscoelasticity and diffusion in miscible blends of saturated hydrocarbon polymers. Rheologica Acta, 1997, 36, 217-228.	1.1	18
122	Effect of Laponite and a Nonionic Polymer on the Absorption Character of Cationic Dye Solutions. Langmuir, 2005, 21, 5825-5830.	1.6	18
123	Linear Viscoelasticity of Spherical SiO2Nanoparticle-Tethered Poly(butyl acrylate) Hybrids. Industrial & Engineering Chemistry Research, 2010, 49, 11985-11990.	1.8	18
124	Particle dispersion in porous media: Differentiating effects of geometry and fluid rheology. Physical Review E, 2017, 96, 022610.	0.8	18
125	Tunable Assembly of Gold Nanorods in Polymer Solutions To Generate Controlled Nanostructured Materials. ACS Applied Nano Materials, 2018, 1, 877-885.	2.4	18
126	Soft Interactions Modify the Diffusive Dynamics of Polymer-Grafted Nanoparticles in Solutions of Free Polymer. ACS Macro Letters, 2019, 8, 917-922.	2.3	18

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127	Measurement of Thermodynamic Interactions in Ternary Polymer Blends by Small-Angle Neutron Scattering. Macromolecules, 1997, 30, 3363-3368.	2.2	17
128	Kinetic Polymer Arrest in Percolated SWNT Networks. ACS Macro Letters, 2014, 3, 1262-1265.	2.3	16
129	Stress Generation and Tailoring of Electronic Properties of Expanded Graphite by Click Chemistry. ACS Applied Materials & Interfaces, 2014, 6, 7244-7253.	4.0	16
130	Effect of Saturation on Thermodynamics of Polystyrene-Polyisoprene Block Copolymers. Macromolecules, 1994, 27, 1216-1220.	2.2	15
131	Fast Solâ€“Gel Preparation of Silicon Carbideâ€“Silicon Oxycarbide Nanocomposites. Journal of the American Ceramic Society, 2011, 94, 4444-4452.	1.9	14
132	Bond behavior of epoxy resinâ€“polydicyclopentadiene phase separated interpenetrating networks for adhering carbon fiber reinforced polymer to steel. Polymer Engineering and Science, 2020, 60, 104-112.	1.5	14
133	Thermodynamic Interactions in a Model Polydiene/Polyolefin Blend Based on 1,2-Polybutadiene. Macromolecules, 2018, 51, 3107-3115.	2.2	13
134	Structure Dominates Localization of Tracers within Aging Nanoparticle Glasses. Journal of Physical Chemistry Letters, 2019, 10, 1784-1789.	2.1	13
135	Thermodynamic Interactions in Polybutadiene Blends. Macromolecules, 1998, 31, 2312-2316.	2.2	12
136	Structure of block copolymer grafted silica nanoparticles. Polymer, 2018, 159, 138-145.	1.8	12
137	Properties of singleâ€walled carbon nanotubeâ€based poly(phenylene vinylene) electroluminescent nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 272-279.	2.4	11
138	Nanostructured Thermoset/Thermoset Blends Compatibilized with an Amphiphilic Block Copolymer. Macromolecules, 2019, 52, 3104-3114.	2.2	11
139	Advancing carbon management through the global commoditization of CO₂: the case for dual-use LNG-CO₂ shipping. Carbon Management, 2020, 11, 611-630.	1.2	11
140	I Donâ€™t Want to Go Back. Journal of Occupational and Environmental Medicine, 2020, 62, 953-958.	0.9	11
141	Dynamics of Disordered Diblocks of Polyisoprene and Polyvinylethylene. Macromolecules, 1997, 30, 1138-1145.	2.2	10
142	Miscibility of Blends of Saturated Hydrocarbon Elastomers. Rubber Chemistry and Technology, 1999, 72, 569-579.	0.6	10
143	Physical properties of isobutylene based block copolymers. Polymer Engineering and Science, 2000, 40, 2182-2193.	1.5	10
144	Dynamics of Block Copolymer Micelles. Macromolecules, 2002, 35, 4075-4083.	2.2	10

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145	Near-superhydrophobic behavior of multi-walled carbon nanotube thin films. Thin Solid Films, 2012, 520, 4332-4338.	0.8	10
146	Butyl lithium assisted direct grafting of polyoligomeric silsesquioxane onto graphene. RSC Advances, 2014, 4, 8649.	1.7	10
147	Flash DSC crystallization study for blown film grade bimodal HDPE resins. I. Isothermal kinetics and its application of the blown film modeling. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2425-2431.	2.4	10
148	Effect of Nonuniform Deuterium Labeling on Small-Angle Neutron Scattering Results for Polymer Blends. Macromolecules, 1995, 28, 8862-8864.	2.2	9
149	Thermodynamic Interactions in Blends of Polydienes. Rubber Chemistry and Technology, 1999, 72, 580-586.	0.6	9
150	Polymer Precursorâ€Based Preparation of Carbon Nanotubeâ€“Silicon Carbide Nanocomposites. Journal of the American Ceramic Society, 2012, 95, 328-337.	1.9	9
151	Flash DSC crystallization study of blown film grade bimodal high density polyethylene (HDPE) resins. Part 2. Nonâ€isothermal kinetics. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1822-1827.	2.4	9
152	Effect of Pressure on a Multicomponent A/B/Aâ^'C Polymer Blend with Attractive and Repulsive Interactions. Macromolecules, 2007, 40, 355-365.	2.2	8
153	Opportunities for a Low Carbon Transition-Deploying Carbon Capture, Utilization, and Storage in Northeast India. Frontiers in Energy Research, 2019, 7, .	1.2	8
154	Conformational change and suppression of the Î˜-temperature for solutions of polymer-grafted nanoparticles. Soft Matter, 2018, 14, 6102-6108.	1.2	7
155	Influence of Layered-Silicates on the Rheological Properties of Diblock Copolymer Nanocompsites. ACS Symposium Series, 2001, , 159-175.	0.5	6
156	Shear thinning behavior of heavy oil samples: Laboratory measurements and modeling. , 2008, , .		6
157	Effect of organically modified layered silicates on the morphology of symmetrical blends of polystyrene and poly(methyl methacrylate). Polymer, 2011, 52, 5890-5896.	1.8	5
158	Pressure-Difference Method for Gas-Kick Detection in Risers. SPE Journal, 2021, 26, 2479-2497.	1.7	5
159	Job Insecurity during an Economic Crisis: the Psychological Consequences of Widespread Corporate Cost-Cutting Announcements. Occupational Health Science, 2021, , 1-25.	1.0	5
160	Chain conformation of rod-like polymers in the melt: Small-angle neutron scattering of poly(benzoyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.4	4
161	Linear Viscoelasticity of Polymer Tethered Highly Grafted Nanoparticles. ACS Symposium Series, 2009, , 257-267.	0.5	4
162	Structural characterization of aqueous solution poly(oligo(ethylene oxide) monomethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (m	1.6	4

#	Article	IF	Citations
163	Effect of Copolymer Composition on Thermodynamic Interactions in Blends Containing a Dieneâ€“Olefin Copolymer and a Polyolefin. Macromolecules, 2020, 53, 9491-9502.	2.2	3
164	Viscoelasticity and diffusion in miscible blends of saturated hydrocarbon polymers. Rheologica Acta, 1997, 36, 217-228.	1.1	3
165	Structure and Dynamics of Blends of Diblock Copolymers. Soft Materials, 2003, 1, 263-275.	0.8	2
166	Carbon Nanotube-Based Poly(ethylene oxide) Nanocomposites. , 2015, , 299-334.		2
167	A New Fundamental Understanding of Gas in the Drilling Riser. , 2021, , .		2
168	Polymer nanocomposites as electrostrictive materials. Proceedings of SPIE, 2009, , .	0.8	1
169	Nanocomposites: general discussion. Faraday Discussions, 2016, 186, 277-293.	1.6	1
170	An Online Microcredential Certification Program to Upskill Petrotechnical Professionals in Data Analytics and Machine Learning with an Upstream Oil and Gas Industry Focus. , 2021, , .		1
171	Transitioning to a sustainable energy paradigm. , 2020, , .		1
172	Melt state thermodynamics of polyolefin blends. Macromolecular Symposia, 1995, 98, 1043-1043.	0.4	0
173	Strength and Fracture of a Multifunctional Polystyrene Nanocomposite. , 2006, , .		0
174	Consolidated nuclear waste storage in Andrews, Texas: An integrated technical and policy risk analysis. Energy and Environment, 0, , 0958305X2110513.	2.7	0