Russell J Composto

List of Publications by Year
in descending order

180 papers	7,768 citations	34105 52 h-index	69250 77 g-index
182 all docs	182 docs citations	182 times ranked	8374 citing authors

#	Article	IF	Citations
1	The inhibition of Staphylococcus epidermidis biofilm formation by vancomycin-modified titanium alloy and implications for the treatment of periprosthetic infection. Biomaterials, 2008, 29, 4684-4690.	11.4	206
2	Effect of biomaterial surface properties on fibronectinâ€“Î±5Î²1 integrin interaction and cellular attachment. Biomaterials, 2006, 27, 1907-1916.	11.4	167
3	Patchy and Multiregion Janus Particles with Tunable Optical Properties. Nano Letters, 2010, 10, 603-609.	9.1	161
4	Dispersion of polymer-grafted magnetic nanoparticles in homopolymers and block copolymers. Polymer, 2008, 49, 3568-3577.	3.8	154
5	The effect of non-specific interactions on cellular adhesion using model surfaces. Biomaterials, 2005, 26, 1721-1730.	11.4	150
6	Self-Regulated Structures in Nanocomposites by Directed Nanoparticle Assembly. Nano Letters, 2005, 5, 1878-1882.	9.1	149
7	Vancomycin covalently bonded to titanium alloy prevents bacterial colonization. Journal of Orthopaedic Research, 2007, 25, 858-866.	2.3	143
8	Micropatterning of three-dimensional electrospun polyurethane vascular grafts. Acta Biomaterialia, 2010, 6, 4229-4237.	8.3	129
9	Two-Dimensional Confinement of Nanorods in Block Copolymer Domains. Nano Letters, 2007, 7, 3662-3668.	9.1	127
10	Mutual diffusion in the miscible polymer blend polystyrene/poly(xylenyl ether). Macromolecules, 1988, 21, 2580-2588.	4.8	125
11	Nanorod Self-Assembly for Tuning Optical Absorption. ACS Nano, 2010, 4, 6941-6949.	14.6	124
12	Macromolecular Diffusion in a Crowded Polymer Nanocomposite. Macromolecules, 2011, 44, 3494-3501.	4.8	124
13	Functional Polymer Nanocomposites Enhanced by Nanorods. Macromolecules, 2014, 47, 875-887.	4.8	118
14	Do Attractive Polymerâ€“Nanoparticle Interactions Retard Polymer Diffusion in Nanocomposites?. Macromolecules, 2013, 46, 4502-4509.	4.8	113
15	Cell elasticity with altered cytoskeletal architectures across multiple cell types. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 197-207.	3.1	108
16	Macromolecule and Particle Dynamics in Confined Media. Macromolecules, 2016, 49, 5755-5772.	4.8	105
17	Tuning optical properties of gold nanorods in polymer films through thermal reshaping. Journal of Materials Chemistry, 2009, 19, 2704.	6.7	102
18	Application of ion scattering techniques to characterize polymer surfaces and interfaces. Materials Science and Engineering Reports, 2002, 38, 107-180.	31.8	100

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19	Correlating macrophage morphology and cytokine production resulting from biomaterial contact. Journal of Biomedical Materials Research - Part A, 2013, 101A, 203-212.	4.0	98
20	Polymer diffusion in a polymer nanocomposite: effect of nanoparticle size and polydispersity. Soft Matter, 2012, 8, 6512.	2.7	95
21	Thin film polymer blends undergoing phase separation and wetting: Identification of early, intermediate, and late stages. Journal of Chemical Physics, 2000, 113, 10386-10397.	3.0	94
22	Influence of the Bound Polymer Layer on Nanoparticle Diffusion in Polymer Melts. ACS Macro Letters, 2016, 5, 1141-1145.	4.8	91
23	Nanorod Assemblies in Polymer Films and Their Dispersion-Dependent Optical Properties. ACS Macro Letters, 2012, 1, 115-121.	4.8	88
24	Fast Mutual Diffusion in Polymer Blends. Physical Review Letters, 1986, 57, 1312-1315.	7.8	87
25	Dispersion of Polymer-Grafted Nanorods in Homopolymer Films: Theory and Experiment. Macromolecules, 2013, 46, 2856-2869.	4.8	85
26	Apoptosis and Survival of Osteoblast-like Cells Are Regulated by Surface Attachment. Journal of Biological Chemistry, 2005, 280, 1733-1739.	3.4	83
27	pH-Responsive Nanostructures Assembled from Amphiphilic Block Copolymers. Macromolecules, 2006, 39, 6063-6070.	4.8	78
28	Controlling the Location of Nanoparticles in Polymer Blends by Tuning the Length and End Group of Polymer Brushes. ACS Macro Letters, 2012, 1, 252-256.	4.8	78
29	Nano-rheology of hydrogels using direct drive force modulation atomic force microscopy. Soft Matter, 2015, 11, 8165-8178.	2.7	78
30	Polymer conformations in polymer nanocomposites containing spherical nanoparticles. Soft Matter, 2015, 11, 382-388.	2.7	75
31	Flexible Nanoparticles Reach Sterically Obscured Endothelial Targets Inaccessible to Rigid Nanoparticles. Advanced Materials, 2018, 30, e1802373.	21.0	73
32	Gold Nanorods Dispersed in Homopolymer Films: Optical Properties Controlled by Self-Assembly and Percolation of Nanorods. ACS Nano, 2012, 6, 1578-1588.	14.6	72
33	Unstable Polymer Bilayers. 1. Morphology of Dewetting. Langmuir, 1995, 11, 4855-4861.	3.5	70
34	Reversible Stimuli-Responsive Nanostructures Assembled from Amphiphilic Block Copolymers. Nano Letters, 2006, 6, 282-287.	9.1	69
35	Fast macromolecules control mutual diffusion in polymer blends. Nature, 1987, 328, 234-236.	27.8	68
36	Reptation in polymer blends. Polymer, 1990, 31, 2320-2328.	3.8	68

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37	Structure and Conformations of Polymer/SWCNT Nanocomposites. Macromolecules, 2011, 44, 9830-9838.	4.8	68
38	ICAM-1 Targeted Nanogels Loaded with Dexamethasone Alleviate Pulmonary Inflammation. PLoS ONE, 2014, 9, e102329.	2.5	68
39	Topological entanglement length in polymer melts and nanocomposites by a DPD polymer model. Soft Matter, 2013, 9, 3877.	2.7	67
40	Universal Scaling of Polymer Diffusion in Nanocomposites. ACS Macro Letters, 2013, 2, 485-490.	4.8	67
41	Direct Measurements of Polymer Brush Conformation Using Small-Angle Neutron Scattering (SANS) from Highly Grafted Iron Oxide Nanoparticles in Homopolymer Melts. Macromolecules, 2013, 46, 9341-9348.	4.8	66
42	Targeted Release of Tobramycin from a pH-Responsive Grafted Bilayer Challenged with S. aureus. Biomacromolecules, 2015, 16, 650-659.	5.4	65
43	Simultaneous Block Copolymer and Magnetic Nanoparticle Assembly in Nanocomposite Films. Macromolecules, 2009, 42, 1219-1228.	4.8	64
44	Effect of Sequence Distribution on Copolymer Interfacial Activity. Macromolecules, 2005, 38, 10494-10502.	4.8	63
45	Surface Segregation and Formation of Silver Nanoparticles Created In situ in Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	6.7	61
46	Entanglements in polymer nanocomposites containing spherical nanoparticles. Soft Matter, 2016, 12, 2567-2574.	2.7	61
47	Designing nanogel carriers for antibacterial applications. Acta Biomaterialia, 2014, 10, 2105-2111.	8.3	60
48	Unstable Polymer Bilayers. 2. The Effect of Film Thickness. Langmuir, 1997, 13, 1758-1766.	3.5	59
49	Symmetric pH-Dependent Swelling and Antibacterial Properties of Chitosan Brushes. Langmuir, 2011, 27, 12458-12465.	3.5	59
50	Reversible swelling of chitosan and quaternary ammonium modified chitosan brush layers: effects of pH and counter anion size and functionality. Journal of Materials Chemistry, 2012, 22, 19605.	6.7	58
51	Network confinement and heterogeneity slows nanoparticle diffusion in polymer gels. Journal of Chemical Physics, 2017, 146, 203318.	3.0	58
52	Ultralow-power switching via defect engineering in germanium telluride phase-change memory devices. Nature Communications, 2016, 7, 10482.	12.8	57
53	Polymer Diffusion Exhibits a Minimum with Increasing Single-Walled Carbon Nanotube Concentration. Macromolecules, 2009, 42, 7091-7097.	4.8	54
54	Title is missing!. Journal of Materials Science, 2003, 11, 237-248.	1.2	52

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55	A jamming morphology map of polymer blend nanocomposite films. Soft Matter, 2011, 7, 7262.	2.7	52
56	Polymer and spherical nanoparticle diffusion in nanocomposites. Journal of Chemical Physics, 2017, 146, 203331.	3.0	52
57	Local Polymer Dynamics and Diffusion in Cylindrical Nanoconfinement. Macromolecules, 2015, 48, 2324-2332.	4.8	51
58	Particle tracking of nanoparticles in soft matter. Journal of Applied Physics, 2020, 127, .	2.5	51
59	Polymer Chain Conformations in CNT/PS Nanocomposites from Small Angle Neutron Scattering. Macromolecules, 2013, 46, 5345-5354.	4.8	50
60	Fine Golden Rings: Tunable Surface Plasmon Resonance from Assembled Nanorods in Topological Defects of Liquid Crystals. Advanced Materials, 2016, 28, 2731-2736.	21.0	50
61	Influence of Lateral Confinement on Phase Separation in Thin Film Polymer Blends. Macromolecules, 2000, 33, 3274-3282.	4.8	48
62	Entanglements and Dynamics of Polymer Melts near a SWCNT. Macromolecules, 2012, 45, 7274-7281.	4.8	48
63	Breakdown of Dynamic Scaling in Thin Film Binary Liquids Undergoing Phase Separation. Physical Review Letters, 2004, 92, 185704.	7.8	47
64	Using Miscible Polymer Blends To Control Depletionâ€“Attraction Forces between Au Nanorods in Nanocomposite Films. Macromolecules, 2012, 45, 6078-6086.	4.8	47
65	Chitosan adsorption on hydroxyapatite and its role in preventing acid erosion. Journal of Colloid and Interface Science, 2012, 385, 235-243.	9.4	47
66	Gold Nanorod Linking to Control Plasmonic Properties in Solution and Polymer Nanocomposites. Langmuir, 2014, 30, 1906-1914.	3.5	47
67	Modeling of Entangled Polymer Diffusion in Melts and Nanocomposites: A Review. Polymers, 2019, 11, 876.	4.5	47
68	Kinetics of Surface and Interfacial Fluctuations in Phase Separating Polymer Blend Films. Macromolecules, 2002, 35, 2799-2809.	4.8	46
69	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. Nano Letters, 2015, 15, 5730-5738.	9.1	46
70	Matrix effects on diffusion in polymer blends. Macromolecules, 1992, 25, 4167-4174.	4.8	45
71	Hydrodynamic-flow-driven wetting in thin film polymer blends: Growth kinetics and morphology. Physical Review E, 2000, 61, 1659-1663.	2.1	45
72	Nanoparticle Brush Architecture Controls Polymer Diffusion in Nanocomposites. Macromolecules, 2014, 47, 2404-2410.	4.8	44

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73	Intracellular nanoparticle dynamics affected by cytoskeletal integrity. Soft Matter, 2017, 13, 1873-1880.	2.7	44
74	Direct Observation of Nanoparticle Embedding into the Surface of a Polymer Melt. Langmuir, 2007, 23, 13169-13173.	3.5	43
75	Internal Phase Separation Drives Dewetting in Polymer Blend and Nanocomposite Films. Macromolecules, 2007, 40, 384-388.	4.8	42
76	Glass Transition Dynamics and Fragility of Ultrathin Miscible Polymer Blend Films. Macromolecules, 2015, 48, 6682-6689.	4.8	41
77	Competitive protein adsorption on polysaccharide and hyaluronate modified surfaces. Biofouling, 2011, 27, 505-518.	2.2	39
78	Fast Nanorod Diffusion through Entangled Polymer Melts. ACS Macro Letters, 2015, 4, 952-956.	4.8	39
79	A Morphology Map Based on Phase Evolution in Polymer Blend Films. Macromolecules, 2006, 39, 153-161.	4.8	38
80	Phase Behavior of Polystyrene and Poly(styrene-ran-styrenesulfonate) Blends. Macromolecules, 2006, 39, 2373-2379.	4.8	38
81	Nanoscale Block Copolymer Templates Decorated by Nanoparticle Arrays. Macromolecules, 2007, 40, 6316-6324.	4.8	37
82	Excluded Volume Model for the Reduction of Polymer Diffusion into Nanocomposites. Journal of Physical Chemistry B, 2013, 117, 15675-15683.	2.6	37
83	Temperature-Dependent Suppression of Polymer Diffusion in Polymer Nanocomposites. ACS Macro Letters, 2016, 5, 735-739.	4.8	37
84	Morphological Transitions of Blockâ€Copolymer Bilayers via Nanoparticle Clustering. Small, 2010, 6, 48-51.	10.0	36
85	Grafted polymer chains suppress nanoparticle diffusion in athermal polymer melts. Journal of Chemical Physics, 2017, 146, 203332.	3.0	36
86	Multiscale Dynamics of Small, Attractive Nanoparticles and Entangled Polymers in Polymer Nanocomposites. Macromolecules, 2019, 52, 2181-2188.	4.8	36
87	Effect of Block Copolymer Adsorption on Thin Film Dewetting Kinetics. Macromolecules, 2000, 33, 5505-5512.	4.8	35
88	Dextran Functionalized Surfaces via Reductive Amination:Â Morphology, Wetting, and Adhesion. Biomacromolecules, 2006, 7, 557-564.	5.4	35
89	Macromolecular Diffusion through a Polymer Matrix with Polymer-Grafted Chained Nanoparticles. Macromolecules, 2014, 47, 5357-5364.	4.8	35
90	Minimum in Diffusion Coefficient with Increasing MWCNT Concentration Requires Tracer Molecules To Be Larger than Nanotubes. Macromolecules, 2009, 42, 8365-8369.	4.8	33

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91	Engineering the Assembly of Gold Nanorods in Polymer Matrices. Macromolecules, 2016, 49, 1002-1015.	4.8	33
92	Adhesion of MC3T3-E1 cells to RGD peptides of different flanking residues: Detachment strength and correlation with long-term cellular function. Journal of Biomedical Materials Research - Part A, 2007, 81A, 150-160.	4.0	32
93	Dispersion and alignment of nanorods in cylindrical block copolymer thin films. Soft Matter, 2016, 12, 2177-2185.	2.7	31
94	Creating Biomimetic Polymeric Surfaces by Photochemical Attachment and Patterning of Dextran. Langmuir, 2010, 26, 14126-14134.	3.5	30
95	Nanorod Diffusion in Polymer Nanocomposites by Molecular Dynamics Simulations. Macromolecules, 2019, 52, 2513-2520.	4.8	30
96	Hemocompatibility and biocompatibility of antibacterial biomimetic hybrid films. Toxicology and Applied Pharmacology, 2013, 272, 703-712.	2.8	29
97	Block Copolymer Adsorption from a Homopolymer Melt to Silicon Oxide:â€‰ Effects of Nonadsorbing Block Length and Anchoring Blockâ^'Substrate Interaction. Macromolecules, 2003, 36, 9897-9904.	4.8	28
98	Photo-activated porphyrin in combination with antibiotics: Therapies against Staphylococci. Journal of Photochemistry and Photobiology B: Biology, 2013, 129, 27-35.	3.8	28
99	Temperature Dependence of Polymer Diffusion in MWCNT/PS Nanocomposites. Macromolecules, 2013, 46, 2317-2322.	4.8	28
100	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. Soft Matter, 2014, 10, 3404-3413.	2.7	28
101	Effect of Molecular Weight on the Interfacial Excess, Tension, and Width in a Homopolymer/Binary Polymer Blend System. Macromolecules, 1998, 31, 870-878.	4.8	26
102	Dewetting of Thin Film Blends Containing Block Copolymer:Â Effects of Nonadsorbing Block Length and Substrate Hydrophobicity. Macromolecules, 2003, 36, 3254-3260.	4.8	26
103	Polymer Tracer Diffusion Exhibits a Minimum in Nanocomposites Containing Spherical Nanoparticles. Macromolecules, 2011, 44, 191-193.	4.8	26
104	Temperature-Dependent Nanoparticle Dynamics in Poly(N-isopropylacrylamide) Gels. Macromolecules, 2018, 51, 3597-3607.	4.8	26
105	Human macrophage adhesion on polysaccharide patterned surfaces. Soft Matter, 2011, 7, 3599.	2.7	25
106	Nanomechanics of pH-Responsive, Drug-Loaded, Bilayered Polymer Grafts. ACS Applied Materials & Interfaces, 2017, 9, 12936-12948.	8.0	25
107	Single-Particle Tracking of Nonsticky and Sticky Nanoparticles in Polymer Melts. Macromolecules, 2020, 53, 3933-3939.	4.8	25
108	Strategies for dispersing, assembling, and orienting nanorods in polymers. Current Opinion in Chemical Engineering, 2013, 2, 95-102.	7.8	24

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109	Alignment of Nanoplates in Lamellar Diblock Copolymer Domains and the Effect of Particle Volume Fraction on Phase Behavior. ACS Macro Letters, 2018, 7, 1400-1407.	4.8	24
110	Cross-linker-Modulated Nanogel Flexibility Correlates with Tunable Targeting to a Sterically Impeded Endothelial Marker. ACS Nano, 2019, 13, 11409-11421.	14.6	24
111	Fast Polymer Diffusion through Nanocomposites with Anisotropic Particles. ACS Macro Letters, 2014, 3, 886-891.	4.8	23
112	Local acid environment in poly(ethylene-ran-methacrylic acid) ionomers. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2833-2841.	2.1	22
113	Hydrogenation of Mg film and Mg nanoblade array on Ti coated Si substrates. Applied Physics Letters, 2008, 93, 163114.	3.3	22
114	Phase Behavior of Grafted Polymer Nanocomposites from Field-Based Simulations. Macromolecules, 2019, 52, 5110-5121.	4.8	22
115	Dendrimer Ligand Directed Nanoplate Assembly. ACS Nano, 2019, 13, 14241-14251.	14.6	22
116	Amphiphilic Block Copolymer Films: Phase Transition, Stabilization, and Nanoscale Templates. Macromolecules, 2009, 42, 1017-1023.	4.8	21
117	Covalent Nanoparticle Assembly onto Random Copolymer Films. Macromolecules, 2009, 42, 517-523.	4.8	21
118	Tunable Wetting of Nanoparticle-Decorated Polymer Films. Langmuir, 2009, 25, 11014-11020.	3.5	21
119	Polymer Diffusion from Attractive and Athermal Substrates. Macromolecules, 2017, 50, 3038-3042.	4.8	21
120	Biomimetic Carbohydrate Substrates of Tunable Properties Using Immobilized Dextran Hydrogels. Biomacromolecules, 2008, 9, 2315-2321.	5.4	20
121	Human plasma protein adsorption onto dextranized surfaces: A two-dimensional electrophoresis and mass spectrometry study. Colloids and Surfaces B: Biointerfaces, 2011, 84, 241-252.	5.0	20
122	Characterizing the Areal Density and Desorption Kinetics of Physically Adsorbed Polymer in Polymer Nanocomposite Melts. Macromolecules, 2020, 53, 2744-2753.	4.8	19
123	The interface between immiscible polymers studied by low-energy forward recoil spectrometry and neutron reflectivity. Polymer, 1999, 40, 4223-4228.	3.8	18
124	Confinement induced stabilization in polymer blend thin films. Polymer, 2001, 42, 9155-9162.	3.8	18
125	Block Copolymer Adsorption at the Polymer Melt/Substrate Interface: The Effect of Matrix Competition. Macromolecules, 2000, 33, 2200-2205.	4.8	17
126	Hemocompatibility of chitosan/poly(acrylic acid) grafted polyurethane tubing. Journal of Materials Chemistry B, 2013, 1, 6382.	5.8	16

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127	Competitive Adsorption of Polyelectrolytes onto and into Pellicle-Coated Hydroxyapatite Investigated by QCM-D and Force Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 13079-13091.	8.0	16
128	Comparison of Field-Theoretic Approaches in Predicting Polymer Nanocomposite Phase Behavior. Macromolecules, 2017, 50, 8797-8809.	4.8	16
129	Cellular Uptake and Intracellular Cargo Release From Dextran Based Nanogel Drug Carriers. Journal of Nanotechnology in Engineering and Medicine, 2013, 4, 110021-110028.	0.8	15
130	Crossover of a block copolymer brush in a polymer melt from a stretched to collapsed conformation. Physical Review E, 1997, 56, R2383-R2386.	2.1	14
131	A quantitative and selective chromatography method for determining coverages of multiple proteins on surfaces. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 826, 198-205.	2.3	14
132	Chemically grafted fibronectin for use in QCM-D cell studies. Biosensors and Bioelectronics, 2014, 58, 249-257.	10.1	14
133	Experiments and Simulations Probing Local Domain Bulge and String Assembly of Aligned Nanoplates in a Lamellar Diblock Copolymer. Macromolecules, 2019, 52, 8989-8999.	4.8	14
134	Interfacial Compatibilization in Ternary Polymer Nanocomposites: Comparing Theory and Experiments. Macromolecules, 2021, 54, 797-811.	4.8	14
135	Orientational Control of Polymer Grafted Nanorods. Macromolecules, 2016, 49, 1111-1119.	4.8	13
136	Nanoparticle diffusion during gelation of tetra poly(ethylene glycol) provides insight into nanoscale structural evolution. Soft Matter, 2020, 16, 2256-2265.	2.7	12
137	Grafted Nanoparticle Surface Wetting during Phase Separation in Polymer Nanocomposite Films. ACS Applied Materials & Interfaces, 2021, 13, 37628-37637.	8.0	12
138	Spin-on-glass thin films prepared from a novel polysilsesquioxane by thermal and ultraviolet-irradiation methods. Thin Solid Films, 1999, 345, 244-254.	1.8	11
139	Anisotropic Polymer Conformations in Aligned SWCNT/PS Nanocomposites. ACS Macro Letters, 2015, 4, 916-920.	4.8	11
140	Out-of-plane orientation alignment and reorientation dynamics of gold nanorods in polymer nanocomposite films. Soft Matter, 2017, 13, 2207-2215.	2.7	11
141	Equilibrium Field Theoretic Study of Nanoparticle Interactions in Diblock Copolymer Melts. Journal of Physical Chemistry B, 2019, 123, 9466-9480.	2.6	11
142	Dopant concentration profiles in conducting poly(p-phenylenevinylene) by Rutherford backscattering spectrometry. Macromolecules, 1990, 23, 3675-3682.	4.8	10
143	Ultraviolet laser-induced formation of thin silicon oxide film from the precursor Î²-chloroethyl silsesquioxane. Journal of Materials Research, 1999, 14, 990-994.	2.6	10
144	Surface Enrichment in a Miscible Random Copolymer Blend:â€‰ Influence of Polydispersity and Architecture. Macromolecules, 1999, 32, 4098-4105.	4.8	10

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145	Retardation of shape change of Au nanorods using photoâ€crossâ€linkable ligands. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 301-307.	2.1	10
146	Dispersion of PMMA-grafted, mesoscopic iron-oxide rods in polymer films. Soft Matter, 2016, 12, 2550-2556.	2.7	10
147	Nanorod Mobility Influences Polymer Diffusion in Polymer Nanocomposites. ACS Macro Letters, 2017, 6, 869-874.	4.8	10
148	Hyaluronan and dextran modified tubes resist cellular activation with blood contact. Colloids and Surfaces B: Biointerfaces, 2013, 108, 44-51.	5.0	9
149	Nanorod position and orientation in vertical cylinder block copolymer films. Soft Matter, 2020, 16, 3005-3014.	2.7	9
150	pH-Mediated nanoparticle dynamics in hydrogel nanocomposites. Soft Matter, 2021, 17, 2765-2774.	2.7	9
151	Nanocomposites of 2D-MoS₂ Exfoliated in Thermotropic Liquid Crystals. , 2021, 3, 704-712.		9
152	Staged development of modified silicon dioxide films. Journal of Sol-Gel Science and Technology, 1997, 8, 465-469.	2.4	8
153	Nanoscale Topography Mediates the Adhesion of F-Actin. Langmuir, 2012, 28, 12216-12224.	3.5	8
154	Meanâ€field theory of the interface between a homopolymer and a binaryâ€polymer mixture. Journal of Chemical Physics, 1996, 105, 10134-10144.	3.0	7
155	A self-consistent field study of the wetting transition in binary polymer blends. Journal of Chemical Physics, 1997, 106, 1257-1263.	3.0	7
156	Investigating polymer blend miscibility with forward recoil spectrometry. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1547-1552.	2.1	7
157	Surface Segregation of Counterions in Ionomer Films. Macromolecules, 2008, 41, 9299-9305.	4.8	7
158	Effect of Nanoscale Confinement on Polymer-Infiltrated Scaffold Metal Composites. ACS Applied Materials & Interfaces, 2021, 13, 44893-44903.	8.0	7
159	Sintering Metal Nanoparticle Films. , 2008, , .		6
160	Dextran Grafted Silicon Substrates: Preparation, Characterization And Biomedical Applications. Materials Research Society Symposia Proceedings, 2003, 774, 7251.	0.1	6
161	Adhesion promotion between a homopolymer probe and a glass substrate coated with a block copolymer monolayer. Polymer, 2004, 45, 4445-4451.	3.8	5
162	Tuning Optical Properties of Functionalized Gold Nanorods through Controlled Interactions with Organic Semiconductors. Journal of Physical Chemistry C, 2015, 119, 17899-17909.	3.1	4

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163	Tunable Nanoscale Channels in Diblock Copolymer Films for Biomolecule Organization. Langmuir, 2010, 26, 10961-10967.	3.5	3
164	Self-assembled charged hydrogels control the alignment of filamentous actin. Soft Matter, 2010, 6, 915-921.	2.7	3
165	Kinetic Monitoring of Block Copolymer Self-Assembly Using In Situ Spectroscopic Ellipsometry. ACS Macro Letters, 2020, 9, 1095-1101.	4.8	3
166	Î²-Acetoxyethyl Silsesquioxanes: Chloride-Free Precursors for SiO2 Films Via Staged Hydrolysis. Materials Research Society Symposia Proceedings, 1999, 606, 251.	0.1	2
167	Biomimetic Surfaces via Dextran Immobilization: Grafting Density and Surface Properties. Materials Research Society Symposia Proceedings, 2004, 826, 221.	0.1	2
168	Effect of Nano-to Micro-Scale Surface Topography on the Orientation of Endothelial Cells. Materials Research Society Symposia Proceedings, 2004, 845, 297.	0.1	2
169	Polymer Blend Systems With an Added Solvent. RSC Soft Matter, 2020, , 73-113.	0.4	2
170	Electrochemically deposited molybdenum disulfide surfaces enable polymer adsorption studies using quartz crystal microbalance with dissipation monitoring (QCM-D). Journal of Colloid and Interface Science, 2022, 614, 522-531.	9.4	2
171	Effect of Graft Length and Matrix Molecular Weight on String Assembly of Aligned Nanoplates in a Lamellar Diblock Copolymer. Macromolecules, 2022, 55, 3166-3175.	4.8	2
172	Dewetting of Polymer Bilayers: Morphology and Kinetics. Materials Research Society Symposia Proceedings, 1994, 366, 71.	0.1	1
173	Ion irradiated polystyrene: transport and hardness Measurements. Materials Research Society Symposia Proceedings, 1994, 354, 357.	0.1	1
174	Competitive adsorption of plasma proteins on polysaccharide-modified silicon surfaces. Materials Research Society Symposia Proceedings, 2004, 845, 303.	0.1	1
175	Dewetting and Adsorption in Homopolymer Films Containing Triblock Copolymers: Role of Chain Architecture and Anchoring Block Molar Fraction. Journal of Adhesion, 2005, 81, 683-698.	3.0	1
176	Bioactive Ceramic And Model Surfaces Adsorb Ligands and Factors That Stimulate Cellular Function. Microscopy and Microanalysis, 2000, 6, 992-993.	0.4	0
177	Understanding Viscoelasticity Changes in Single Cells using Variable Indentation-Rate Viscoelastic Analysis. Biophysical Journal, 2016, 110, 366a.	0.5	0
178	In memory of professor Edward J. Kramer. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 117-117.	2.1	0
179	In memory of professor Edward J. Kramer. Journal of Polymer Science Part A, 2016, 54, 227-227.	2.3	0
180	Polymer adsorption at polymer/solid interfaces. , 2000, , 181-228.		0