Eugenia Kumacheva

List of Publications by Year
in descending order

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198 papers	20,942 citations	14614 66 h-index	9839 141 g-index
209 all docs	209 docs citations	209 times ranked	24262 citing authors

#	Article	IF	Citations
1	Properties and emerging applications of self-assembled structures made from inorganic nanoparticles. Nature Nanotechnology, 2010, 5, 15-25.	15.6	1,449
2	Enhanced electrocatalytic CO2 reduction via field-induced reagent concentration. Nature, 2016, 537, 382-386.	13.7	1,429
3	Patterning surfaces with functional polymers. Nature Materials, 2008, 7, 277-290.	13.3	841
4	Self-assembly of metalâ€“polymer analogues of amphiphilic triblock copolymers. Nature Materials, 2007, 6, 609-614.	13.3	746
5	Generation of Monodisperse Particles by Using Microfluidics: Control over Size, Shape, and Composition. Angewandte Chemie - International Edition, 2005, 44, 724-728.	7.2	700
6	Janus and Ternary Particles Generated by Microfluidic Synthesis:Â Design, Synthesis, and Self-Assembly. Journal of the American Chemical Society, 2006, 128, 9408-9412.	6.6	692
7	Formation of monodisperse bubbles in a microfluidic flow-focusing device. Applied Physics Letters, 2004, 85, 2649-2651.	1.5	563
8	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. Nature Nanotechnology, 2020, 15, 668-674.	15.6	541
9	Three-dimensional shape transformations of hydrogel sheets induced by small-scale modulation of internal stresses. Nature Communications, 2013, 4, 1586.	5.8	518
10	Step-Growth Polymerization of Inorganic Nanoparticles. Science, 2010, 329, 197-200.	6.0	475
11	Microfluidic Production of Biopolymer Microcapsules with Controlled Morphology. Journal of the American Chemical Society, 2006, 128, 12205-12210.	6.6	335
12	Multiple Shape Transformations of Composite Hydrogel Sheets. Journal of the American Chemical Society, 2013, 135, 4834-4839.	6.6	302
13	Emulsification in a microfluidic flow-focusing device: effect of the viscosities of the liquids. Microfluidics and Nanofluidics, 2008, 5, 585-594.	1.0	299
14	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. ACS Catalysis, 2016, 6, 8115-8120.	5.5	277
15	Self-assembled plasmonic nanostructures. Chemical Society Reviews, 2014, 43, 3976.	18.7	276
16	MICROGELS: Old Materials with New Applications. Annual Review of Materials Research, 2006, 36, 117-142.	4.3	275
17	Chiral Plasmonic Films Formed by Gold Nanorods and Cellulose Nanocrystals. Journal of the American Chemical Society, 2014, 136, 4788-4793.	6.6	272
18	Surface patterning of nanoparticles with polymer patches. Nature, 2016, 538, 79-83.	13.7	257

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19	Design and applications of man-made biomimetic fibrillar hydrogels. Nature Reviews Materials, 2019, 4, 99-115.	23.3	253
20	Probing Dynamic Generation of Hot-Spots in Self-Assembled Chains of Gold Nanorods by Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2011, 133, 7563-7570.	6.6	251
21	Continuous Microfluidic Reactors for Polymer Particles. Langmuir, 2005, 21, 11614-11622.	1.6	244
22	Monodisperse Chitosan Nanoparticles for Mucosal Drug Delivery. Biomacromolecules, 2004, 5, 2461-2468.	2.6	241
23	Microfluidic generation of microgels from synthetic and natural polymers. Chemical Society Reviews, 2009, 38, 2161.	18.7	240
24	Hydrogel microenvironments for cancer spheroid growth and drug screening. Science Advances, 2018, 4, eaas8998.	4.7	238
25	Self-assembly of inorganic nanorods. Chemical Society Reviews, 2011, 40, 656.	18.7	232
26	Microfluidic Encapsulation of Cells in Polymer Microgels. Small, 2012, 8, 1633-1642.	5.2	231
27	Microfluidic consecutive flow-focusing droplet generators. Soft Matter, 2007, 3, 986.	1.2	230
28	Design of Biocompatible Chitosan Microgels for Targeted pH-Mediated Intracellular Release of Cancer Therapeutics. Biomacromolecules, 2006, 7, 1568-1572.	2.6	221
29	â€œSupramolecularâ€•Assembly of Gold Nanorods End-Terminated with Polymer â€œPom-Pomsâ€•â€‰ Effect of Pom-Pom Structure on the Association Modes. Journal of the American Chemical Society, 2008, 130, 3683-3689.	6.6	213
30	Composite Hydrogels with Tunable Anisotropic Morphologies and Mechanical Properties. Chemistry of Materials, 2016, 28, 3406-3415.	3.2	206
31	Exploring Microfluidic Routes to Microgels of Biological Polymers. Macromolecular Rapid Communications, 2007, 28, 527-538.	2.0	196
32	Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. Annual Review of Materials Research, 2010, 40, 415-443.	4.3	194
33	High-throughput combinatorial cell co-culture using microfluidics. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	183
34	High-throughput generation of hydrogel microbeads with varying elasticity for cell encapsulation. Biomaterials, 2011, 32, 1477-1483.	5.7	183
35	Nanoparticle synthesis assisted by machine learning. Nature Reviews Materials, 2021, 6, 701-716.	23.3	179
36	Ion-Mediated Gelation of Aqueous Suspensions of Cellulose Nanocrystals. Biomacromolecules, 2015, 16, 2455-2462.	2.6	173

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37	Dynamic fibroblast contractions attract remote macrophages in fibrillar collagen matrix. Nature Communications, 2019, 10, 1850.	5.8	167
38	Strongly Coupled Plasmonic Modes on Macroscopic Areas via Template-Assisted Colloidal Self-Assembly. Nano Letters, 2014, 14, 6863-6871.	4.5	162
39	Colloidal cholesteric liquid crystal in spherical confinement. Nature Communications, 2016, 7, 12520.	5.8	157
40	Colloidally Stable and Surfactant-Free Protein-Coated Gold Nanorods in Biological Media. ACS Applied Materials & Interfaces, 2015, 7, 5984-5991.	4.0	156
41	Self-limiting directional nanoparticle bonding governed by reaction stoichiometry. Science, 2020, 369, 1369-1374.	6.0	139
42	Multiple modular microfluidic (M3) reactors for the synthesis of polymer particles. Lab on A Chip, 2009, 9, 2715.	3.1	128
43	Evolution of Selfâ€Assembled Structures of Polymerâ€Terminated Gold Nanorods in Selective Solvents. Advanced Materials, 2008, 20, 4318-4322.	11.1	124
44	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. Nano Letters, 2015, 15, 5427-5437.	4.5	122
45	Circular Dichroism of Chiral Nematic Films of Cellulose Nanocrystals Loaded with Plasmonic Nanoparticles. ACS Nano, 2015, 9, 10377-10385.	7.3	111
46	An â€œInside-Outâ€•Microfluidic Approach to Monodisperse Emulsions Stabilized by Solid Particles. Journal of the American Chemical Society, 2008, 130, 16508-16509.	6.6	109
47	Multifunctional 3D-Printed Wound Dressings. ACS Nano, 2021, 15, 12375-12387.	7.3	104
48	Structural Transitions in Nanoparticle Assemblies Governed by Competing Nanoscale Forces. Journal of the American Chemical Society, 2013, 135, 10262-10265.	6.6	100
49	A â€œCoreâ€'Shellâ€•Approach to Producing 3D Polymer Nanocomposites. Macromolecules, 1999, 32, 4122-4129.	2.2	95
50	Large-Area Organization of pNIPAM-Coated Nanostars as SERS Platforms for Polycyclic Aromatic Hydrocarbons Sensing in Gas Phase. Langmuir, 2012, 28, 9168-9173.	1.6	94
51	Simultaneous generation of droplets with different dimensions in parallel integrated microfluidic droplet generators. Soft Matter, 2008, 4, 258-262.	1.2	93
52	Structural and Optical Properties of Self-Assembled Chains of Plasmonic Nanocubes. Nano Letters, 2014, 14, 6314-6321.	4.5	92
53	Injectable Shear-Thinning Fluorescent Hydrogel Formed by Cellulose Nanocrystals and Graphene Quantum Dots. Langmuir, 2017, 33, 12344-12350.	1.6	90
54	Nanocolloidal Hydrogel for Heavy Metal Scavenging. ACS Nano, 2018, 12, 8160-8168.	7.3	90

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55	Rapid, cost-efficient fabrication of microfluidic reactors in thermoplastic polymers by combining photolithography and hot embossing. Lab on A Chip, 2010, 10, 522-524.	3.1	84
56	A Microfluidic Approach to Chemically Driven Assembly of Colloidal Particles at Gasâ€“Liquid Interfaces. Angewandte Chemie - International Edition, 2009, 48, 5300-5304.	7.2	83
57	Microfluidics:Â From Dynamic Lattices to Periodic Arrays of Polymer Disks. Langmuir, 2005, 21, 4773-4775.	1.6	81
58	Photothermally-triggered self-assembly of gold nanorods. Chemical Communications, 2009, , 2571.	2.2	81
59	Chitosan/agarose hydrogels: Cooperative properties and microfluidic preparation. Carbohydrate Polymers, 2014, 111, 348-355.	5.1	80
60	Screening of the Effect of Surface Energy of Microchannels on Microfluidic Emulsification. Langmuir, 2007, 23, 8010-8014.	1.6	78
61	Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers. Angewandte Chemie - International Edition, 2014, 53, 2648-2653.	7.2	77
62	Nanorattles with tailored electric field enhancement. Nanoscale, 2017, 9, 9376-9385.	2.8	76
63	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2013, 52, 6459-6463.	7.2	75
64	Controlling the Degree of Polymerization, Bond Lengths, and Bond Angles of Plasmonic Polymers. Journal of the American Chemical Society, 2012, 134, 18853-18859.	6.6	68
65	Side-by-Side Assembly of Gold Nanorods Reduces Ensemble-Averaged SERS Intensity. Journal of Physical Chemistry C, 2012, 116, 5538-5545.	1.5	67
66	Colloidal analogs of molecular chain stoppers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18775-18779.	3.3	67
67	Two-Dimensional Colloid Crystals Obtained by Coupling of Flow and Confinement. Physical Review Letters, 2003, 91, 128301.	2.9	66
68	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. Angewandte Chemie - International Edition, 2017, 56, 6083-6087.	7.2	66
69	Temperature-Responsive Nanofibrillar Hydrogels for Cell Encapsulation. Biomacromolecules, 2016, 17, 3244-3251.	2.6	64
70	Composite Cholesteric Nanocellulose Films with Enhanced Mechanical Properties. Chemistry of Materials, 2017, 29, 789-795.	3.2	64
71	In Situ Plasmonic Counter for Polymerization of Chains of Gold Nanorods in Solution. ACS Nano, 2013, 7, 5901-5910.	7.3	63
72	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. ACS Nano, 2017, 11, 4995-5002.	7.3	63

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73	Convection in Polymeric Fluids Subjected to Vertical Temperature Gradients. Macromolecules, 2000, 33, 4972-4978.	2.2	62
74	From polyelectrolyte to polyampholyte microgels: comparison of swelling properties. Colloid and Polymer Science, 2006, 284, 1073-1084.	1.0	62
75	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas. Faraday Discussions, 2015, 181, 243-260.	1.6	62
76	Patterning of Structurally Anisotropic Composite Hydrogel Sheets. Biomacromolecules, 2018, 19, 1276-1284.	2.6	62
77	Coassembly of Gold Nanoparticles and Cellulose Nanocrystals in Composite Films. Langmuir, 2015, 31, 5033-5041.	1.6	61
78	Chiral Carbon Dots Synthesized on Cellulose Nanocrystals. Advanced Optical Materials, 2020, 8, 1901911.	3.6	61
79	Polymeric nanostructured material for high-density three-dimensional optical memory storage. Journal of Applied Physics, 2001, 90, 5328-5334.	1.1	60
80	Periodic assembly of nanoparticle arrays in disclinations of cholesteric liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2137-2142.	3.3	59
81	Actuation of Threeâ€Dimensionalâ€Printed Nanocolloidal Hydrogel with Structural Anisotropy. Advanced Functional Materials, 2021, 31, 2010743.	7.8	59
82	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. Journal of Materials Chemistry A, 2017, 5, 11582-11585.	5.2	58
83	Selfâ€Driving Platform for Metal Nanoparticle Synthesis: Combining Microfluidics and Machine Learning. Advanced Functional Materials, 2021, 31, 2106725.	7.8	57
84	Rationalized Approach to Molecular Tailoring of Polymetallocenes with Predictable Optical Properties. Chemistry of Materials, 2004, 16, 5205-5211.	3.2	55
85	Polyferrocenes: metallopolymers with tunable and high refractive indicesElectronic supplementary information (ESI) available: synthesis of polyferrocenes, film preparation and ellipsometric characterization. See http://www.rsc.org/suppdata/cc/b3/b311934c/. Chemical Communications, 2004, , 234.	2.2	53
86	Coassembly of Nanorods and Nanospheres in Suspensions and in Stratified Films. Angewandte Chemie - International Edition, 2015, 54, 5618-5622.	7.2	53
87	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. Journal of Physical Chemistry C, 2015, 119, 9513-9523.	1.5	53
88	Template-assisted colloidal self-assembly of macroscopic magnetic metasurfaces. Faraday Discussions, 2016, 191, 159-176.	1.6	51
89	Brush formation from mixtures of short and long end-functionalized chains in a good solvent. Macromolecules, 1993, 26, 6477-6482.	2.2	50
90	Microfluidic Arrays of Breast Tumor Spheroids for Drug Screening and Personalized Cancer Therapies. Advanced Healthcare Materials, 2022, 11, e2101085.	3.9	48

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91	Biomimetic hydrogel supports initiation and growth of patient-derived breast tumor organoids. Nature Communications, 2022, 13, 1466.	5.8	48
92	Hierarchical line-defect patterns in wrinkled surfaces. Soft Matter, 2015, 11, 3332-3339.	1.2	46
93	Structure and properties of composite films formed by cellulose nanocrystals and charged latex nanoparticles. Nanoscale, 2015, 7, 6612-6618.	2.8	44
94	Staged Surface Patterning and Selfâ€Assembly of Nanoparticles Functionalized with Endâ€Grafted Block Copolymer Ligands. Angewandte Chemie - International Edition, 2019, 58, 9269-9274.	7.2	41
95	A microfluidic route to small CO₂microbubbles with narrow size distribution. Soft Matter, 2010, 6, 630-634.	1.2	38
96	Characterization of the mechanical properties of microgels acting as cellular microenvironments. Soft Matter, 2013, 9, 2959.	1.2	37
97	Shape transformations of soft matter governed by bi-axial stresses. Soft Matter, 2015, 11, 4600-4605.	1.2	37
98	Large-Scale Synthesis of Metal Nanocrystals in Aqueous Suspensions. Chemistry of Materials, 2016, 28, 3196-3202.	3.2	37
99	Microfluidic Generation of Composite Biopolymer Microgels with Tunable Compositions and Mechanical Properties. Biomacromolecules, 2014, 15, 2419-2425.	2.6	36
100	Universal behavior of hydrogels confined to narrow capillaries. Scientific Reports, 2015, 5, 17017.	1.6	36
101	Quantifying the efficiency of CO₂ capture by Lewis pairs. Chemical Science, 2017, 8, 3270-3275.	3.7	36
102	Matrix Stiffness-Regulated Growth of Breast Tumor Spheroids and Their Response to Chemotherapy. Biomacromolecules, 2021, 22, 419-429.	2.6	36
103	Electrodeposition of Polymerâ^'Semiconductor Nanocomposite Films. Chemistry of Materials, 2004, 16, 4122-4127.	3.2	35
104	Toward Controlling the Surface Morphology of Macroporous Copolymer Particles. Macromolecules, 2009, 42, 1990-1994.	2.2	35
105	Nanofibrillar Stimulusâ€Responsive Cholesteric Microgels with Catalytic Properties. Angewandte Chemie - International Edition, 2016, 55, 14014-14018.	7.2	35
106	Selfâ€Assembly of Cellulose Nanocrystals into Semiâ€Spherical Photonic Cholesteric Films. Advanced Functional Materials, 2018, 28, 1803852.	7.8	35
107	The Role of Substrate Wettability in Nanoparticle Transfer from Wrinkled Elastomers: Fundamentals and Application toward Hierarchical Patterning. Langmuir, 2012, 28, 16745-16750.	1.6	34
108	Switchable Water: Microfluidic Investigation of Liquidâ€"Liquid Phase Separation Mediated by Carbon Dioxide. Journal of the American Chemical Society, 2014, 136, 11972-11979.	6.6	34

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109	Shaken, and stirred: oscillatory segmented flow for controlled size-evolution of colloidal nanomaterials. Lab on A Chip, 2014, 14, 2309-2318.	3.1	34
110	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. Small, 2016, 12, 2450-2458.	5.2	34
111	3Dâ€Printed Microfluidic Devices for Materials Science. Advanced Materials Technologies, 2018, 3, 1800068.	3.0	33
112	Microgels with an Interpenetrating Network Structure as a Model System for Cell Studies. Macromolecules, 2010, 43, 7277-7281.	2.2	32
113	Shear-Induced Alignment of Anisotropic Nanoparticles in a Single-Droplet Oscillatory Microfluidic Platform. Langmuir, 2018, 34, 322-330.	1.6	32
114	Helicoidal Patterning of Nanorods with Polymer Ligands. Angewandte Chemie - International Edition, 2019, 58, 3123-3127.	7.2	32
115	Nanocolloidal Hydrogel with Sensing and Antibacterial Activities Governed by Iron Ion Sequestration. Chemistry of Materials, 2020, 32, 10066-10075.	3.2	32
116	Photochemical Synthesis of Polymeric Fiber Coatings and Their Embedding in Matrix Material: Morphology and Nanomechanical Properties at the Fiberâ€“Matrix Interface. ACS Applied Materials & Interfaces, 2012, 4, 3484-3492.	4.0	31
117	Towards tailored topography: facile preparation of surface-wrinkled gradient poly(dimethyl siloxane) with continuously changing wavelength. RSC Advances, 2012, 2, 10185.	1.7	30
118	Silverâ€Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. Small, 2018, 14, e1703879.	5.2	30
119	Trends in Droplet Microfluidics: From Droplet Generation to Biomedical Applications. Langmuir, 2022, 38, 6233-6248.	1.6	30
120	Polymer nanostructured material for the recording of biometric features. Journal of Materials Chemistry, 2007, 17, 523-526.	6.7	29
121	Temperature-Responsive Self-Assembly of Nanoparticles Grafted with UCST Polymer Ligands. Macromolecules, 2018, 51, 6021-6027.	2.2	28
122	Structurally anisotropic hydrogels for tissue engineering. Trends in Chemistry, 2021, 3, 1002-1026.	4.4	28
123	Thermoplastic microfluidic devices for targeted chemical and biological applications. RSC Advances, 2017, 7, 2884-2889.	1.7	27
124	Linear assembly of patchy and non-patchy nanoparticles. Faraday Discussions, 2016, 191, 189-204.	1.6	26
125	From Structure to Properties of Composite Films Derived from Cellulose Nanocrystals. ACS Omega, 2017, 2, 5928-5934.	1.6	26
126	Peclet Number Dependence of Mass Transfer in Microscale Segmented Gasâ€“Liquid Flow. Industrial & Engineering Chemistry Research, 2015, 54, 9046-9051.	1.8	25

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127	Carbon Dots Conjugated with Vascular Endothelial Growth Factor for Protein Tracking in Angiogenic Therapy. Langmuir, 2020, 36, 2893-2900.	1.6	24
128	Characterization of internal order of colloidal crystals by optical diffraction. Optical and Quantum Electronics, 2002, 34, 27-36.	1.5	23
129	Multifunctional Hybrid Polymerâ€Based Porous Materials. Advanced Functional Materials, 2011, 21, 1959-1969.	7.8	23
130	Polymer-Tethered Nanoparticles: From Surface Engineering to Directional Self-Assembly. Accounts of Chemical Research, 2022, 55, 1503-1513.	7.6	23
131	Nanostructured Polymer Films with Liquid Inclusions. 1. Structural Blocks. Macromolecules, 2001, 34, 6380-6386.	2.2	22
132	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2014, 118, 28095-28100.	1.5	21
133	Colloidal stability of nanoparticles stabilized with mixed ligands in solvents with varying polarity. Chemical Communications, 2020, 56, 8131-8134.	2.2	20
134	A 3D printing approach to intelligent food packaging. Trends in Food Science and Technology, 2022, 127, 87-98.	7.8	20
135	Monodispersed Silicaâ^'Titanyl Sulfate Microspheres. Langmuir, 2001, 17, 7912-7917.	1.6	19
136	The motion of a microgel in an axisymmetric constriction with a tapered entrance. Soft Matter, 2013, 9, 10391.	1.2	19
137	Nanoparticle-laden droplets of liquid crystals: Interactive morphogenesis and dynamic assembly. Science Advances, 2019, 5, eaav1035.	4.7	19
138	Morphological Transitions in Patchy Nanoparticles. ACS Nano, 2020, 14, 4577-4584.	7.3	19
139	Convection Patterns Trapped in the Solid State by UV-Induced Polymerization. Langmuir, 2000, 16, 7275-7278.	1.6	18
140	Kinetics of Multicomponent Polymerization Reaction Studied in a Microfluidic Format. Macromolecules, 2012, 45, 4469-4475.	2.2	18
141	Nanofibrillar thermoreversible micellar microgels. Soft Matter, 2013, 9, 2380.	1.2	18
142	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. Particle and Particle Systems Characterization, 2014, 31, 1134-1140.	1.2	18
143	Study of Extraction and Recycling of Switchable Hydrophilicity Solvents in an Oscillatory Microfluidic Platform. ACS Sustainable Chemistry and Engineering, 2017, 5, 4304-4310.	3.2	18
144	Temperatureâ€Mediated Microfluidic Extrusion of Structurally Anisotropic Hydrogels. Advanced Materials Technologies, 2019, 4, 1800627.	3.0	18

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145	Reversible gold nanorod alignment in mechano-responsive elastomers. Polymer, 2015, 66, 167-172.	1.8	17
146	Assembly of Gold Nanoparticles on Gold Nanorods Using Functionalized Poly(N-isopropylacrylamide) as Polymeric â€œGlueâ€• Particle and Particle Systems Characterization, 2016, 33, 698-702.	1.2	17
147	A microfluidic study of liquidâ€“liquid extraction mediated by carbon dioxide. Lab on A Chip, 2016, 16, 2710-2718.	3.1	17
148	Fabrication and optical enhancing properties of discrete supercrystals. Nanoscale, 2016, 8, 12702-12709.	2.8	17
149	Helicoidal Patterning of Gold Nanorods by Phase Separation in Mixed Polymer Brushes. Langmuir, 2019, 35, 15872-15879.	1.6	17
150	Nanofibrillar Hydrogel Recapitulates Changes Occurring in the Fibrotic Extracellular Matrix. Biomacromolecules, 2021, 22, 2352-2362.	2.6	17
151	Nanostructured Temperature Indicator for Cold Chain Logistics. ACS Nano, 2022, 16, 8641-8650.	7.3	17
152	Selfâ€Assembly and Surface Patterning of Polyferrocenylsilaneâ€Functionalized Gold Nanoparticles. Macromolecular Rapid Communications, 2018, 39, 1700554.	2.0	16
153	Self-organization of nanoparticles and molecules in periodic Liesegang-type structures. Science Advances, 2021, 7, .	4.7	16
154	Microdroplet-based one-step RT-PCR for ultrahigh throughput single-cell multiplex gene expression analysis and rare cell detection. Scientific Reports, 2021, 11, 6777.	1.6	15
155	Microfluidic arrays of dermal spheroids: a screening platform for active ingredients of skincare products. Lab on A Chip, 2021, 21, 3952-3962.	3.1	15
156	Self-Assembly of Substituted Polyglutamates on Solid Substrates:Â The Side-Chain Effect. Langmuir, 1999, 15, 1698-1702.	1.6	14
157	Core-shell particles: building blocks for advanced polymer materials. Macromolecular Symposia, 2003, 192, 191-206.	0.4	14
158	TEM Imaging of Polymer Multilayer Particles:Â Advantages, Limitations, and Artifacts. Macromolecules, 2006, 39, 2441-2444.	2.2	14
159	Compound droplets derived from a cholesteric suspension of cellulose nanocrystals. Soft Matter, 2018, 14, 9713-9719.	1.2	14
160	Homopolymer Nanolithography. Small, 2017, 13, 1702043.	5.2	13
161	Thin Films of Liquid Crystals Confined between Crystalline Surfaces. Journal of Physical Chemistry B, 2000, 104, 8822-8829.	1.2	12
162	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie, 2013, 125, 6587-6591.	1.6	12

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163	Two-dimensional arrays of cell-laden polymer hydrogel modules. Biomicrofluidics, 2016, 10, 014110.	1.2	12
164	One-Step Fabrication of Microchannels with Integrated Three Dimensional Features by Hot Intrusion Embossing. Sensors, 2016, 16, 2023.	2.1	11
165	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. Angewandte Chemie, 2017, 129, 6179-6183.	1.6	11
166	Hybrid Cholesteric Films with Tailored Polarization Rotation. Advanced Functional Materials, 2019, 29, 1905552.	7.8	11
167	Colloidal Crystallization Accomplished by Electrodeposition on Patterned Substrates. Journal of Dispersion Science and Technology, 2005, 26, 259-265.	1.3	10
168	Polyelectrolyte vs Polyampholyte Behavior of Composite Chitosan/Gelatin Films. ACS Omega, 2019, 4, 8795-8803.	1.6	10
169	Self-Assembly of Polypeptide Molecules on Charged Surfaces. 1. Effect of Polydispersity. Langmuir, 1998, 14, 5568-5572.	1.6	9
170	Nanofibrillar Stimulusâ€Responsive Cholesteric Microgels with Catalytic Properties. Angewandte Chemie, 2016, 128, 14220-14224.	1.6	9
171	Phytoglycogen Nanoparticles: Nature-Derived Superlubricants. ACS Nano, 2021, 15, 8953-8964.	7.3	9
172	Cylindrical Confinement of Nanocolloidal Cholesteric Liquid Crystal. Journal of Physical Chemistry B, 2021, 125, 8243-8250.	1.2	9
173	Multicolored Nanocolloidal Hydrogel Inks. Advanced Functional Materials, 2021, 31, 2105470.	7.8	9
174	Computational Modelling and Big Data Analysis of Flow and Drug Transport in Microfluidic Systems: A Spheroid-on-a-Chip Study. Frontiers in Bioengineering and Biotechnology, 2021, 9, 781566.	2.0	8
175	Oxidative Elimination and Reductive Addition of Thiolâ€Terminated Polymer Ligands to Metal Nanoparticles. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
176	Microfluidic Separation of Ethylene and Ethane Using Frustrated Lewis Pairs. ChemSusChem, 2015, 8, 4202-4208.	3.6	7
177	Toward rational design of palladium nanoparticles with plasmonically enhanced catalytic performance. RSC Advances, 2016, 6, 47907-47911.	1.7	7
178	Nanostructured Polymer Films with Liquid Inclusions. 2. Material Morphology and Properties. Macromolecules, 2002, 35, 3675-3680.	2.2	6
179	Stimulus-Responsive Nanoconjugates Derived from Phytoglycogen Nanoparticles. Biomacromolecules, 2022, 23, 1928-1937.	2.6	6
180	Response of adsorbed layers of hydroxypropyl cellulose to variations in ambient humidity. Colloid and Polymer Science, 2002, 280, 607-615.	1.0	5

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181	An exploration of the reflow technique for the fabrication of an in vitro microvascular system to study occlusive clots. Biomedical Microdevices, 2017, 19, 82.	1.4	5
182	Composite Microgels for Imaging-Monitored Tracking of the Delivery of Vascular Endothelial Growth Factor to Ischemic Muscles. Biomacromolecules, 2021, , .	2.6	4
183	Microfluidic Studies of Polymer Adsorption in Flow. Macromolecular Chemistry and Physics, 2017, 218, 1600328.	1.1	3
184	Resilient Women and the Resiliency of Science. Chemistry of Materials, 2021, 33, 6585-6588.	3.2	3
185	Trace cancer biomarker quantification using polystyrene-functionalized gold nanorods. Biomedical Optics Express, 2014, 5, 4101.	1.5	2
186	New routes to control nanoparticle synthesis: general discussion. Faraday Discussions, 2015, 181, 147-179.	1.6	2
187	No need to wait. Nature Materials, 2017, 16, 883-884.	13.3	2
188	Staged Surface Patterning and Selfâ€Assembly of Nanoparticles Functionalized with Endâ€Grafted Block Copolymer Ligands. Angewandte Chemie, 2019, 131, 9370-9375.	1.6	2
189	Helicoidal Patterning of Nanorods with Polymer Ligands. Angewandte Chemie, 2019, 131, 3155-3159.	1.6	2
190	Chiral plasmonic activity of cholesteric films formed by gold nanorods and cellulose nanocrystals. , 2014, , .		1
191	An Exploratory Microfluidic Approach to Photopolymerized Polymerâ€Inorganic Nanocomposite Films. Macromolecular Materials and Engineering, 2015, 300, 1071-1078.	1.7	1
192	Colloidal approach of local and propagating magnetic modes for optical metamaterials on the macroscopic area. , 2015, , .		1
193	Field-assisted self-assembly process: general discussion. Faraday Discussions, 2015, 181, 463-479.	1.6	1
194	Hierarchical Materials: SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum (Part. Part. Syst.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	1
195	Properties of self-assembled nanostructures: general discussion. Faraday Discussions, 2015, 181, 365-381.	1.6	0
196	POLYMER 3D NANOCOMPOSITES: NEW ROUTES TO DEVELOPMENT. , 2000, , .		0
197	Solvent-Mediated Isolation of Polymer-Grafted Nanoparticles. Macromolecules, 2020, 53, 4533-4540.	2.2	0
198	Oxidative Elimination and Reductive Addition of Thiolâ€Terminated Polymer Ligands to Metal Nanoparticles. Angewandte Chemie, 0, , .	1.6	0