

Eugenia Kumacheva

List of Publications by Citations

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195
papers

16,933
citations

61
h-index

128
g-index

209
ext. papers

19,032
ext. citations

10.7
avg, IF

6.91
L-index

#	Paper	IF	Citations
195	Properties and emerging applications of self-assembled structures made from inorganic nanoparticles. <i>Nature Nanotechnology</i> , 2010 , 5, 15-25	28.7	1327
194	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.6	997
193	Patterning surfaces with functional polymers. <i>Nature Materials</i> , 2008 , 7, 277-90	27	767
192	Self-assembly of metal-polymer analogues of amphiphilic triblock copolymers. <i>Nature Materials</i> , 2007 , 6, 609-14	27	693
191	Generation of monodisperse particles by using microfluidics: control over size, shape, and composition. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 724-8	16.4	642
190	Janus and ternary particles generated by microfluidic synthesis: design, synthesis, and self-assembly. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9408-12	16.4	619
189	Formation of monodisperse bubbles in a microfluidic flow-focusing device. <i>Applied Physics Letters</i> , 2004 , 85, 2649-2651	3.4	501
188	Three-dimensional shape transformations of hydrogel sheets induced by small-scale modulation of internal stresses. <i>Nature Communications</i> , 2013 , 4, 1586	17.4	437
187	Step-growth polymerization of inorganic nanoparticles. <i>Science</i> , 2010 , 329, 197-200	33.3	422
186	Microfluidic production of biopolymer microcapsules with controlled morphology. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12205-10	16.4	315
185	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , 2020 , 15, 668-674	28.7	281
184	MICROGELS: Old Materials with New Applications. <i>Annual Review of Materials Research</i> , 2006 , 36, 117-142	42.8	266
183	Emulsification in a microfluidic flow-focusing device: effect of the viscosities of the liquids. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 585-594	2.8	264
182	Multiple shape transformations of composite hydrogel sheets. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4834-9	16.4	262
181	Self-assembled plasmonic nanostructures. <i>Chemical Society Reviews</i> , 2014 , 43, 3976-91	58.5	234
180	Chiral plasmonic films formed by gold nanorods and cellulose nanocrystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4788-93	16.4	231
179	Probing dynamic generation of hot-spots in self-assembled chains of gold nanorods by surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7563-70	16.4	228

178	Continuous microfluidic reactors for polymer particles. <i>Langmuir</i> , 2005 , 21, 11614-22	4	221
177	Self-assembly of inorganic nanorods. <i>Chemical Society Reviews</i> , 2011 , 40, 656-71	58.5	219
176	Microfluidic generation of microgels from synthetic and natural polymers. <i>Chemical Society Reviews</i> , 2009 , 38, 2161-8	58.5	213
175	Monodisperse chitosan nanoparticles for mucosal drug delivery. <i>Biomacromolecules</i> , 2004 , 5, 2461-8	6.9	213
174	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2016 , 6, 8115-8120	13.1	212
173	Design of biocompatible chitosan microgels for targeted pH-mediated intracellular release of cancer therapeutics. <i>Biomacromolecules</i> , 2006 , 7, 1568-72	6.9	207
172	Microfluidic consecutive flow-focusing droplet generators. <i>Soft Matter</i> , 2007 , 3, 986-992	3.6	200
171	Surface patterning of nanoparticles with polymer patches. <i>Nature</i> , 2016 , 538, 79-83	50.4	196
170	Microfluidic encapsulation of cells in polymer microgels. <i>Small</i> , 2012 , 8, 1633-42	11	195
169	"Supramolecular" assembly of gold nanorods end-terminated with polymer "pom-poms": effect of pom-pom structure on the association modes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3683-9	16.4	193
168	Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. <i>Annual Review of Materials Research</i> , 2010 , 40, 415-443	12.8	180
167	Exploring Microfluidic Routes to Microgels of Biological Polymers. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 527-538	4.8	172
166	High-throughput combinatorial cell co-culture using microfluidics. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 653-62	3.7	162
165	High-throughput generation of hydrogel microbeads with varying elasticity for cell encapsulation. <i>Biomaterials</i> , 2011 , 32, 1477-83	15.6	162
164	Design and applications of man-made biomimetic fibrillar hydrogels. <i>Nature Reviews Materials</i> , 2019 , 4, 99-115	73.3	160
163	Composite Hydrogels with Tunable Anisotropic Morphologies and Mechanical Properties. <i>Chemistry of Materials</i> , 2016 , 28, 3406-3415	9.6	156
162	Generation of Monodisperse Particles by Using Microfluidics: Control over Size, Shape, and Composition. <i>Angewandte Chemie</i> , 2005 , 117, 734-738	3.6	152
161	Hydrogel microenvironments for cancer spheroid growth and drug screening. <i>Science Advances</i> , 2018 , 4, eaas8998	14.3	148

160	Colloidal cholesteric liquid crystal in spherical confinement. <i>Nature Communications</i> , 2016 , 7, 12520	17.4	129
159	Colloidally stable and surfactant-free protein-coated gold nanorods in biological media. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5984-91	9.5	124
158	Strongly coupled plasmonic modes on macroscopic areas via template-assisted colloidal self-assembly. <i>Nano Letters</i> , 2014 , 14, 6863-71	11.5	123
157	Ion-Mediated Gelation of Aqueous Suspensions of Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2015 , 16, 2455-62	6.9	121
156	Evolution of Self-Assembled Structures of Polymer-Terminated Gold Nanorods in Selective Solvents. <i>Advanced Materials</i> , 2008 , 20, 4318-4322	24	114
155	Multiple modular microfluidic (M3) reactors for the synthesis of polymer particles. <i>Lab on A Chip</i> , 2009 , 9, 2715-21	7.2	111
154	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. <i>Nano Letters</i> , 2015 , 15, 5427-37	11.5	105
153	An "inside-out" microfluidic approach to monodisperse emulsions stabilized by solid particles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16508-9	16.4	100
152	Circular Dichroism of Chiral Nematic Films of Cellulose Nanocrystals Loaded with Plasmonic Nanoparticles. <i>ACS Nano</i> , 2015 , 9, 10377-85	16.7	91
151	Simultaneous generation of droplets with different dimensions in parallel integrated microfluidic droplet generators. <i>Soft Matter</i> , 2008 , 4, 258-262	3.6	86
150	A Core-Shell Approach to Producing 3D Polymer Nanocomposites. <i>Macromolecules</i> , 1999 , 32, 4122-4129	5.5	85
149	Large-area organization of pNIPAM-coated nanostars as SERS platforms for polycyclic aromatic hydrocarbons sensing in gas phase. <i>Langmuir</i> , 2012 , 28, 9168-73	4	84
148	Structural transitions in nanoparticle assemblies governed by competing nanoscale forces. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10262-5	16.4	81
147	Structural and optical properties of self-assembled chains of plasmonic nanocubes. <i>Nano Letters</i> , 2014 , 14, 6314-21	11.5	80
146	A microfluidic approach to chemically driven assembly of colloidal particles at gas-liquid interfaces. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5300-4	16.4	77
145	Dynamic fibroblast contractions attract remote macrophages in fibrillar collagen matrix. <i>Nature Communications</i> , 2019 , 10, 1850	17.4	76
144	Microfluidics: from dynamic lattices to periodic arrays of polymer disks. <i>Langmuir</i> , 2005 , 21, 4773-5	4	75
143	Rapid, cost-efficient fabrication of microfluidic reactors in thermoplastic polymers by combining photolithography and hot embossing. <i>Lab on A Chip</i> , 2010 , 10, 522-4	7.2	72

142	Screening of the effect of surface energy of microchannels on microfluidic emulsification. <i>Langmuir</i> , 2007 , 23, 8010-4	4	72
141	Photothermally-triggered self-assembly of gold nanorods. <i>Chemical Communications</i> , 2009 , 2571-3	5.8	71
140	Macroscale plasmonic substrates for highly sensitive surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6459-63	16.4	67
139	Self-limiting directional nanoparticle bonding governed by reaction stoichiometry. <i>Science</i> , 2020 , 369, 1369-1374	33.3	63
138	Nanocolloidal Hydrogel for Heavy Metal Scavenging. <i>ACS Nano</i> , 2018 , 12, 8160-8168	16.7	62
137	Copolymerization of metal nanoparticles: a route to colloidal plasmonic copolymers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2648-53	16.4	62
136	Injectable Shear-Thinning Fluorescent Hydrogel Formed by Cellulose Nanocrystals and Graphene Quantum Dots. <i>Langmuir</i> , 2017 , 33, 12344-12350	4	61
135	Chitosan/agarose hydrogels: cooperative properties and microfluidic preparation. <i>Carbohydrate Polymers</i> , 2014 , 111, 348-55	10.3	61
134	Controlling the degree of polymerization, bond lengths, and bond angles of plasmonic polymers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18853-9	16.4	61
133	From polyelectrolyte to polyampholyte microgels: comparison of swelling properties. <i>Colloid and Polymer Science</i> , 2006 , 284, 1073-1084	2.4	61
132	Side-by-Side Assembly of Gold Nanorods Reduces Ensemble-Averaged SERS Intensity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5538-5545	3.8	60
131	Two-dimensional colloid crystals obtained by coupling of flow and confinement. <i>Physical Review Letters</i> , 2003 , 91, 128301	7.4	60
130	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , 2017 , 9, 9376-9385	7.7	56
129	Polymeric nanostructured material for high-density three-dimensional optical memory storage. <i>Journal of Applied Physics</i> , 2001 , 90, 5328-5334	2.5	55
128	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas. <i>Faraday Discussions</i> , 2015 , 181, 243-60	3.6	53
127	Colloidal analogs of molecular chain stoppers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18775-9	11.5	53
126	Convection in Polymeric Fluids Subjected to Vertical Temperature Gradients. <i>Macromolecules</i> , 2000 , 33, 4972-4978	5.5	53
125	In situ plasmonic counter for polymerization of chains of gold nanorods in solution. <i>ACS Nano</i> , 2013 , 7, 5901-10	16.7	52

124	Rationalized Approach to Molecular Tailoring of Polymetalloenes with Predictable Optical Properties. <i>Chemistry of Materials</i> , 2004 , 16, 5205-5211	9.6	52
123	Coassembly of gold nanoparticles and cellulose nanocrystals in composite films. <i>Langmuir</i> , 2015 , 31, 5033-41	4	49
122	Periodic assembly of nanoparticle arrays in disclinations of cholesteric liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2137-2142	11.5	48
121	Polyferrocenes: metallopolymers with tunable and high refractive indices. <i>Chemical Communications</i> , 2004 , 234-5	5.8	48
120	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6083-6087	16.4	46
119	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 4995-5002	16.7	45
118	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9513-9523	3.8	45
117	Temperature-Responsive Nanofibrillar Hydrogels for Cell Encapsulation. <i>Biomacromolecules</i> , 2016 , 17, 3244-3251	6.9	44
116	Template-assisted colloidal self-assembly of macroscopic magnetic metasurfaces. <i>Faraday Discussions</i> , 2016 , 191, 159-176	3.6	44
115	Coassembly of nanorods and nanospheres in suspensions and in stratified films. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5618-22	16.4	44
114	Composite Cholesteric Nanocellulose Films with Enhanced Mechanical Properties. <i>Chemistry of Materials</i> , 2017 , 29, 789-795	9.6	43
113	Brush formation from mixtures of short and long end-functionalized chains in a good solvent. <i>Macromolecules</i> , 1993 , 26, 6477-6482	5.5	43
112	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11582-11585	13	42
111	Hierarchical line-defect patterns in wrinkled surfaces. <i>Soft Matter</i> , 2015 , 11, 3332-9	3.6	42
110	Patterning of Structurally Anisotropic Composite Hydrogel Sheets. <i>Biomacromolecules</i> , 2018 , 19, 1276-1284	13.4	42
109	2011 ,		41
108	Nanoparticle synthesis assisted by machine learning. <i>Nature Reviews Materials</i> , 2021 , 6, 701-716	73.3	38
107	Structure and properties of composite films formed by cellulose nanocrystals and charged latex nanoparticles. <i>Nanoscale</i> , 2015 , 7, 6612-8	7.7	36

106	A microfluidic route to small CO ₂ microbubbles with narrow size distribution. <i>Soft Matter</i> , 2010 , 6, 630-636	3.6	34
105	Shape transformations of soft matter governed by bi-axial stresses. <i>Soft Matter</i> , 2015 , 11, 4600-5	3.6	33
104	Nanofibrillar Stimulus-Responsive Cholesteric Microgels with Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14014-14018	16.4	32
103	Switchable water: microfluidic investigation of liquid-liquid phase separation mediated by carbon dioxide. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11972-9	16.4	31
102	The role of substrate wettability in nanoparticle transfer from wrinkled elastomers: fundamentals and application toward hierarchical patterning. <i>Langmuir</i> , 2012 , 28, 16745-50	4	31
101	Characterization of the mechanical properties of microgels acting as cellular microenvironments. <i>Soft Matter</i> , 2013 , 9, 2959	3.6	30
100	Photochemical synthesis of polymeric fiber coatings and their embedding in matrix material: morphology and nanomechanical properties at the fiber-matrix interface. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3484-92	9.5	30
99	Toward Controlling the Surface Morphology of Macroporous Copolymer Particles. <i>Macromolecules</i> , 2009 , 42, 1990-1994	5.5	30
98	Electrodeposition of Polymer/Semiconductor Nanocomposite Films. <i>Chemistry of Materials</i> , 2004 , 16, 4122-4127	9.6	30
97	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. <i>Small</i> , 2016 , 12, 2450-8	11	29
96	Microfluidic generation of composite biopolymer microgels with tunable compositions and mechanical properties. <i>Biomacromolecules</i> , 2014 , 15, 2419-25	6.9	29
95	Large-Scale Synthesis of Metal Nanocrystals in Aqueous Suspensions. <i>Chemistry of Materials</i> , 2016 , 28, 3196-3202	9.6	29
94	Universal behavior of hydrogels confined to narrow capillaries. <i>Scientific Reports</i> , 2015 , 5, 17017	4.9	28
93	Towards tailored topography: facile preparation of surface-wrinkled gradient poly(dimethyl siloxane) with continuously changing wavelength. <i>RSC Advances</i> , 2012 , 2, 10185	3.7	28
92	Microgels with an Interpenetrating Network Structure as a Model System for Cell Studies. <i>Macromolecules</i> , 2010 , 43, 7277-7281	5.5	28
91	Quantifying the efficiency of CO capture by Lewis pairs. <i>Chemical Science</i> , 2017 , 8, 3270-3275	9.4	27
90	Shaken, and stirred: oscillatory segmented flow for controlled size-evolution of colloidal nanomaterials. <i>Lab on A Chip</i> , 2014 , 14, 2309-18	7.2	27
89	Self-Assembly of Cellulose Nanocrystals into Semi-Spherical Photonic Cholesteric Films. <i>Advanced Functional Materials</i> , 2018 , 28, 1803852	15.6	26

88	Staged Surface Patterning and Self-Assembly of Nanoparticles Functionalized with End-Grafted Block Copolymer Ligands. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9269-9274	16.4	25
87	Polymer nanostructured material for the recording of biometric features. <i>Journal of Materials Chemistry</i> , 2007 , 17, 523-526		25
86	Silver-Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. <i>Small</i> , 2018 , 14, e1703879	11	23
85	3D-Printed Microfluidic Devices for Materials Science. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800068	6.8	23
84	Chiral Carbon Dots Synthesized on Cellulose Nanocrystals. <i>Advanced Optical Materials</i> , 2020 , 8, 19019118	18.1	23
83	Peclet Number Dependence of Mass Transfer in Microscale Segmented Gas-Liquid Flow. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9046-9051	3.9	22
82	Multifunctional Hybrid Polymer-Based Porous Materials. <i>Advanced Functional Materials</i> , 2011 , 21, 1959-1969	19.69	22
81	Nanostructured Polymer Films with Liquid Inclusions. 1. Structural Blocks. <i>Macromolecules</i> , 2001 , 34, 6380-6386	5.5	22
80	Shear-Induced Alignment of Anisotropic Nanoparticles in a Single-Droplet Oscillatory Microfluidic Platform. <i>Langmuir</i> , 2018 , 34, 322-330	4	22
79	From Structure to Properties of Composite Films Derived from Cellulose Nanocrystals. <i>ACS Omega</i> , 2017 , 2, 5928-5934	3.9	21
78	Multifunctional 3D-Printed Wound Dressings. <i>ACS Nano</i> , 2021 ,	16.7	20
77	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28095-28100	3.8	19
76	Monodispersed Silica-Titanyl Sulfate Microspheres. <i>Langmuir</i> , 2001 , 17, 7912-7917	4	19
75	Nanofibrillar thermoreversible micellar microgels. <i>Soft Matter</i> , 2013 , 9, 2380	3.6	18
74	Coassembly of Nanorods and Nanospheres in Suspensions and in Stratified Films. <i>Angewandte Chemie</i> , 2015 , 127, 5710-5714	3.6	18
73	Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers. <i>Angewandte Chemie</i> , 2014 , 126, 2686-2691	3.6	18
72	Characterization of internal order of colloidal crystals by optical diffraction. <i>Optical and Quantum Electronics</i> , 2002 , 34, 27-36	2.4	18
71	Helicoidal Patterning of Nanorods with Polymer Ligands. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3123-3127	16.4	18

70	Actuation of Three-Dimensional-Printed Nanocolloidal Hydrogel with Structural Anisotropy. <i>Advanced Functional Materials</i> , 2021 , 31, 2010743	15.6	18
69	Study of Extraction and Recycling of Switchable Hydrophilicity Solvents in an Oscillatory Microfluidic Platform. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4304-4310	8.3	17
68	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1134-1140	3.1	17
67	Convection Patterns Trapped in the Solid State by UV-Induced Polymerization. <i>Langmuir</i> , 2000 , 16, 7275-7278	7.2	17
66	Linear assembly of patchy and non-patchy nanoparticles. <i>Faraday Discussions</i> , 2016 , 191, 189-204	3.6	17
65	Reversible gold nanorod alignment in mechano-responsive elastomers. <i>Polymer</i> , 2015 , 66, 167-172	3.9	16
64	A microfluidic study of liquid-liquid extraction mediated by carbon dioxide. <i>Lab on A Chip</i> , 2016 , 16, 2710-2718	7.2	16
63	Temperature-Responsive Self-Assembly of Nanoparticles Grafted with UCST Polymer Ligands. <i>Macromolecules</i> , 2018 , 51, 6021-6027	5.5	16
62	The motion of a microgel in an axisymmetric constriction with a tapered entrance. <i>Soft Matter</i> , 2013 , 9, 10391	3.6	16
61	Assembly of Gold Nanoparticles on Gold Nanorods Using Functionalized Poly(N-isopropylacrylamide) as Polymeric Glue. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 698-702	3.1	16
60	Thermoplastic microfluidic devices for targeted chemical and biological applications. <i>RSC Advances</i> , 2017 , 7, 2884-2889	3.7	15
59	Matrix Stiffness-Regulated Growth of Breast Tumor Spheroids and Their Response to Chemotherapy. <i>Biomacromolecules</i> , 2021 , 22, 419-429	6.9	15
58	Morphological Transitions in Patchy Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 4577-4584	16.7	14
57	Fabrication and optical enhancing properties of discrete supercrystals. <i>Nanoscale</i> , 2016 , 8, 12702-9	7.7	14
56	Kinetics of Multicomponent Polymerization Reaction Studied in a Microfluidic Format. <i>Macromolecules</i> , 2012 , 45, 4469-4475	5.5	14
55	Core-shell particles: building blocks for advanced polymer materials. <i>Macromolecular Symposia</i> , 2003 , 192, 191-206	0.8	14
54	Self-Assembly of Substituted Polyglutamates on Solid Substrates: The Side-Chain Effect. <i>Langmuir</i> , 1999 , 15, 1698-1702	4	14
53	Self-Assembly and Surface Patterning of Polyferrocenylsilane-Functionalized Gold Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700554	4.8	14

52	TEM Imaging of Polymer Multilayer Particles: Advantages, Limitations, and Artifacts. <i>Macromolecules</i> , 2006 , 39, 2441-2444	5.5	13
51	Helicoidal Patterning of Gold Nanorods by Phase Separation in Mixed Polymer Brushes. <i>Langmuir</i> , 2019 , 35, 15872-15879	4	12
50	Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2013 , 125, 6587-6591	3.6	12
49	Carbon Dots Conjugated with Vascular Endothelial Growth Factor for Protein Tracking in Angiogenic Therapy. <i>Langmuir</i> , 2020 , 36, 2893-2900	4	11
48	Homopolymer Nanolithography. <i>Small</i> , 2017 , 13, 1702043	11	11
47	Nanocolloidal Hydrogel with Sensing and Antibacterial Activities Governed by Iron Ion Sequestration. <i>Chemistry of Materials</i> , 2020 , 32, 10066-10075	9.6	11
46	Temperature-Mediated Microfluidic Extrusion of Structurally Anisotropic Hydrogels. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800627	6.8	11
45	Self-Driving Platform for Metal Nanoparticle Synthesis: Combining Microfluidics and Machine Learning. <i>Advanced Functional Materials</i> , 2106725	15.6	11
44	Nanoparticle-laden droplets of liquid crystals: Interactive morphogenesis and dynamic assembly. <i>Science Advances</i> , 2019 , 5, eaav1035	14.3	10
43	Colloidal Crystallization Accomplished by Electrodeposition on Patterned Substrates. <i>Journal of Dispersion Science and Technology</i> , 2005 , 26, 259-265	1.5	10
42	Thin Films of Liquid Crystals Confined between Crystalline Surfaces. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8822-8829	3.4	10
41	Two-dimensional arrays of cell-laden polymer hydrogel modules. <i>Biomicrofluidics</i> , 2016 , 10, 014110	3.2	10
40	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. <i>Angewandte Chemie</i> , 2017 , 129, 6179-6183	3.6	9
39	Colloidal stability of nanoparticles stabilized with mixed ligands in solvents with varying polarity. <i>Chemical Communications</i> , 2020 , 56, 8131-8134	5.8	9
38	Self-Assembly of Polypeptide Molecules on Charged Surfaces. 1. Effect of Polydispersity. <i>Langmuir</i> , 1998 , 14, 5568-5572	4	9
37	One-Step Fabrication of Microchannels with Integrated Three Dimensional Features by Hot Intrusion Embossing. <i>Sensors</i> , 2016 , 16,	3.8	9
36	Hybrid Cholesteric Films with Tailored Polarization Rotation. <i>Advanced Functional Materials</i> , 2019 , 29, 1905552	15.6	8
35	Polyelectrolyte vs Polyampholyte Behavior of Composite Chitosan/Gelatin Films. <i>ACS Omega</i> , 2019 , 4, 8795-8803	3.9	7

34	Compound droplets derived from a cholesteric suspension of cellulose nanocrystals. <i>Soft Matter</i> , 2018 , 14, 9713-9719	3.6	7
33	Nanofibrillar Stimulus-Responsive Cholesteric Microgels with Catalytic Properties. <i>Angewandte Chemie</i> , 2016 , 128, 14220-14224	3.6	6
32	Structurally anisotropic hydrogels for tissue engineering. <i>Trends in Chemistry</i> , 2021 ,	14.8	6
31	Toward rational design of palladium nanoparticles with plasmonically enhanced catalytic performance. <i>RSC Advances</i> , 2016 , 6, 47907-47911	3.7	6
30	Biomimetic hydrogel supports initiation and growth of patient-derived breast tumor organoids.. <i>Nature Communications</i> , 2022 , 13, 1466	17.4	6
29	Microfluidic Arrays of Breast Tumor Spheroids for Drug Screening and Personalized Cancer Therapies. <i>Advanced Healthcare Materials</i> , 2021 , e2101085	10.1	5
28	Microfluidic Studies of Carbon Dioxide. <i>Angewandte Chemie</i> , 2014 , 126, 8126-8136	3.6	4
27	An exploration of the reflow technique for the fabrication of an in vitro microvascular system to study occlusive clots. <i>Biomedical Microdevices</i> , 2017 , 19, 82	3.7	4
26	Microfluidic Separation of Ethylene and Ethane Using Frustrated Lewis Pairs. <i>ChemSusChem</i> , 2015 , 8, 4202-8	8.3	4
25	Response of adsorbed layers of hydroxypropyl cellulose to variations in ambient humidity. <i>Colloid and Polymer Science</i> , 2002 , 280, 607-615	2.4	4
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