

Orlin D Velez

List of Publications by Year in descending order

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225
papers

21,267
citations

12330

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235
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235
docs citations

235
times ranked

19231
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of formation of two-dimensional crystals from latex particles on substrates. <i>Langmuir</i> , 1992, 8, 3183-3190.	3.5	1,091
2	Porous silica via colloidal crystallization. <i>Nature</i> , 1997, 389, 447-448.	27.8	820
3	Charging of Oil/Water Interfaces Due to Spontaneous Adsorption of Hydroxyl Ions. <i>Langmuir</i> , 1996, 12, 2045-2051.	3.5	705
4	Assembly of Latex Particles by Using Emulsion Droplets as Templates. 1. Microstructured Hollow Spheres. <i>Langmuir</i> , 1996, 12, 2374-2384.	3.5	580
5	Dielectrophoretic Assembly of Electrically Functional Microwires from Nanoparticle Suspensions. <i>Science</i> , 2001, 294, 1082-1086.	12.6	533
6	Structured Porous Materials via Colloidal Crystal Templating: From Inorganic Oxides to Metals. <i>Advanced Materials</i> , 2000, 12, 531-534.	21.0	528
7	An environmentally benign antimicrobial nanoparticle based on a silver-infused lignin core. <i>Nature Nanotechnology</i> , 2015, 10, 817-823.	31.5	493
8	A class of porous metallic nanostructures. <i>Nature</i> , 1999, 401, 548-548.	27.8	481
9	Controlled, Rapid Deposition of Structured Coatings from Micro- and Nanoparticle Suspensions. <i>Langmuir</i> , 2004, 20, 2099-2107.	3.5	481
10	A Class of Microstructured Particles Through Colloidal Crystallization. <i>Science</i> , 2000, 287, 2240-2243.	12.6	478
11	In Situ Assembly of Colloidal Particles into Miniaturized Biosensors. <i>Langmuir</i> , 1999, 15, 3693-3698.	3.5	461
12	Induced-Charge Electrophoresis of Metallodielectric Particles. <i>Physical Review Letters</i> , 2008, 100, 058302.	7.8	427
13	Pickering stabilization of foams and emulsions with particles of biological origin. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 490-500.	7.4	385
14	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. <i>Nature Communications</i> , 2013, 4, 2257.	12.8	380
15	Materials Fabricated by Micro- and Nanoparticle Assembly – The Challenging Path from Science to Engineering. <i>Advanced Materials</i> , 2009, 21, 1897-1905.	21.0	374
16	Foam Superstabilization by Polymer Microrods. <i>Langmuir</i> , 2004, 20, 10371-10374.	3.5	361
17	Colloidal crystals as templates for porous materials. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 56-63.	7.4	342
18	Assembly of Gold Nanostructured Films Templated by Colloidal Crystals and Use in Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000, 122, 9554-9555.	13.7	329

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19	Fabrication of Environmentally Biodegradable Lignin Nanoparticles. ChemPhysChem, 2012, 13, 4235-4243.	2.1	326
20	On-chip manipulation of free droplets. Nature, 2003, 426, 515-516.	27.8	324
21	Protein Interactions in Solution Characterized by Light and Neutron Scattering: Comparison of Lysozyme and Chymotrypsinogen. Biophysical Journal, 1998, 75, 2682-2697.	0.5	319
22	Electro-actuated hydrogel walkers with dual responsive legs. Soft Matter, 2014, 10, 1337-1348.	2.7	301
23	Fabrication of "Hairy" Colloidosomes with Shells of Polymeric Microrods. Journal of the American Chemical Society, 2004, 126, 8092-8093.	13.7	300
24	On-chip micromanipulation and assembly of colloidal particles by electric fields. Soft Matter, 2006, 2, 738.	2.7	300
25	Remotely powered self-propelling particles and micropumps based on miniature diodes. Nature Materials, 2007, 6, 235-240.	27.5	279
26	Dielectrophoretic Assembly of Metallodielectric Janus Particles in AC Electric Fields. Langmuir, 2008, 24, 13312-13320.	3.5	261
27	Two-Dimensional Crystallization of Microspheres by a Coplanar AC Electric Field. Langmuir, 2004, 20, 2108-2116.	3.5	243
28	Synthesis and Characterization of Biodegradable Lignin Nanoparticles with Tunable Surface Properties. Langmuir, 2016, 32, 6468-6477.	3.5	220
29	Reconfigurable responsive structures assembled from magnetic Janus particles. Soft Matter, 2009, 5, 1285.	2.7	217
30	Anisotropic particle synthesis in dielectrophoretically controlled microdroplet reactors. Nature Materials, 2004, 4, 98-102.	27.5	205
31	Fabrication of asymmetrically coated colloid particles by microcontact printing techniques. Journal of Materials Chemistry, 2003, 13, 2445.	6.7	204
32	Towards All-Soft Matter Circuits: Prototypes of Quasi-Liquid Devices with Memristor Characteristics. Advanced Materials, 2011, 23, 3559-3564.	21.0	189
33	Long-Term Stabilization of Foams and Emulsions with In-Situ Formed Microparticles from Hydrophobic Cellulose. Langmuir, 2008, 24, 9245-9253.	3.5	183
34	Characterization and Optimization of Gold Nanoparticle-Based Silver-Enhanced Immunoassays. Analytical Chemistry, 2007, 79, 3810-3820.	6.5	181
35	Convective Assembly of Antireflective Silica Coatings with Controlled Thickness and Refractive Index. Chemistry of Materials, 2005, 17, 3642-3651.	6.7	158
36	Ordered Silicon Nanocavity Arrays in Surface-Assisted Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2005, 77, 1088-1095.	6.5	153

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37	Control and Modeling of the Dielectrophoretic Assembly of On-Chip Nanoparticle Wires. <i>Langmuir</i> , 2004, 20, 467-476.	3.5	150
38	Ultrathin film coatings of aligned cellulose nanocrystals from a convective-shear assembly system and their surface mechanical properties. <i>Soft Matter</i> , 2011, 7, 1957.	2.7	148
39	Assembly and characterization of colloid-based antireflective coatings on multicrystalline silicon solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 791-799.	6.7	147
40	Synthesis of Light-Induced Diffracting Assemblies from Microspheres and Nanoparticles in Droplets on a Superhydrophobic Surface. <i>Advanced Materials</i> , 2008, 20, 4263-4268.	21.0	147
41	Polyelectrolyte Diode: A Nonlinear Current Response of a Junction between Aqueous Ionic Gels. <i>Journal of the American Chemical Society</i> , 2007, 129, 10801-10806.	13.7	142
42	Engineered deposition of coatings from nano- and micro-particles: A brief review of convective assembly at high volume fraction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 311, 2-10.	4.7	142
43	Controlled assembly of SERS substrates templated by colloidal crystal films. <i>Journal of Materials Chemistry</i> , 2006, 16, 1207-1211.	6.7	141
44	3D Printing by Multiphase Silicone/Water Capillary Inks. <i>Advanced Materials</i> , 2017, 29, 1701554.	21.0	140
45	Dielectrophoretic assembly of oriented and switchable two-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2003, 82, 949-951.	3.3	134
46	An AC Electrokinetic Technique for Collection and Concentration of Particles and Cells on Patterned Electrodes. <i>Langmuir</i> , 2005, 21, 6603-6612.	3.5	130
47	Chained Iron Microparticles for Directionally Controlled Actuation of Soft Robots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11895-11901.	8.0	128
48	Fabrication of dipolar colloid particles by microcontact printing. <i>Chemical Communications</i> , 2003, , 2296.	4.1	126
49	Programmed assembly of metallodielectric patchy particles in external AC electric fields. <i>Soft Matter</i> , 2010, 6, 1413.	2.7	124
50	Magnetically Responsive Pickering Foams. <i>Journal of the American Chemical Society</i> , 2011, 133, 13856-13859.	13.7	116
51	Particle-localized AC and DC manipulation and electrokinetics. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2009, 105, 213.	4.4	114
52	Ionic Current Rectification in Soft-Matter Diodes with Liquid-Metal Electrodes. <i>Advanced Functional Materials</i> , 2012, 22, 625-631.	14.9	113
53	Engineering of Self-Propelling Microbots and Microdevices Powered by Magnetic and Electric Fields. <i>Advanced Functional Materials</i> , 2018, 28, 1705953.	14.9	109
54	Scalable Synthesis of a New Class of Polymer Microrods by a Liquid-Liquid Dispersion Technique. <i>Advanced Materials</i> , 2004, 16, 1653-1657.	21.0	103

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55	Surface-Guided Templating of Particle Assemblies Inside Drying Sessile Droplets. <i>Langmuir</i> , 2008, 24, 1371-1380.	3.5	99
56	Soft electrodes combining hydrogel and liquid metal. <i>Soft Matter</i> , 2018, 14, 3296-3303.	2.7	99
57	Direct measurement of lateral capillary forces. <i>Langmuir</i> , 1993, 9, 3702-3709.	3.5	97
58	Emulsion-Based Synthesis of Reversibly Swellable, Magnetic Nanoparticle-Embedded Polymer Microcapsules. <i>Chemistry of Materials</i> , 2006, 18, 3308-3313.	6.7	94
59	Sequence-encoded colloidal origami and microbot assemblies from patchy magnetic cubes. <i>Science Advances</i> , 2017, 3, e1701108.	10.3	90
60	Assembly of Reconfigurable Colloidal Structures by Multidirectional Field-Induced Interactions. <i>Langmuir</i> , 2015, 31, 7897-7908.	3.5	89
61	Nanocapillarity-mediated magnetic assembly of nanoparticles into ultraflexible filaments and reconfigurable networks. <i>Nature Materials</i> , 2015, 14, 1104-1109.	27.5	89
62	Assembly of 1D Nanostructures into Sub-micrometer Diameter Fibrils with Controlled and Variable Length by Dielectrophoresis. <i>Advanced Materials</i> , 2003, 15, 1352-1355.	21.0	88
63	Formation of two-dimensional structures from colloidal particles on fluorinated oil substrate. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2077.	1.7	84
64	Measurement of the Drag Coefficient of Spherical Particles Attached to Fluid Interfaces. <i>Journal of Colloid and Interface Science</i> , 1995, 172, 147-154.	9.4	83
65	Microwave, Photo- and Thermally Responsive PNIPAm~Gold Nanoparticle Microgels. <i>Langmuir</i> , 2008, 24, 11959-11966.	3.5	82
66	Multi-stimuli responsive foams combining particles and self-assembling fatty acids. <i>Chemical Science</i> , 2013, 4, 3874.	7.4	77
67	Evaporation-Induced Particle Microseparations inside Droplets Floating on a Chip. <i>Langmuir</i> , 2006, 22, 1459-1468.	3.5	76
68	Rapid Deposition and Long-Range Alignment of Nanocoatings and Arrays of Electrically Conductive Wires from Tobacco Mosaic Virus. <i>Small</i> , 2006, 2, 1462-1466.	10.0	73
69	Gel-Based Self-Propelling Particles Get Programmed To Dance. <i>Langmuir</i> , 2012, 28, 10128-10135.	3.5	72
70	Effect of pH and Ca ²⁺ -Induced Associations of Soybean Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 4953-4958.	5.2	68
71	Smart Nonaqueous Foams from Lipid-Based Oleogel. <i>Langmuir</i> , 2015, 31, 13501-13510.	3.5	68
72	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. <i>Nanoscale</i> , 2016, 8, 1309-1313.	5.6	68

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73	Formation of two-dimensional colloid crystals in liquid films under the action of capillary forces. Journal of Physics Condensed Matter, 1994, 6, A395-A402.	1.8	66
74	Field-directed assembly of patchy anisotropic microparticles with defined shape. Soft Matter, 2013, 9, 9219.	2.7	66
75	Remotely powered distributed microfluidic pumps and mixers based on miniature diodes. Lab on A Chip, 2008, 8, 117-124.	6.0	65
76	Stability and Viscoelasticity of Magneto-Pickering Foams. Langmuir, 2013, 29, 10019-10027.	3.5	65
77	MATERIALS SCIENCE: Enhanced: Self-Assembly of Unusual Nanoparticle Crystals. Science, 2006, 312, 376-377.	12.6	64
78	Phase diagram for stimulus-responsive materials containing dipolar colloidal particles. Physical Review E, 2008, 77, 031401.	2.1	62
79	Bending of Responsive Hydrogel Sheets Guided by Field-Assembled Microparticle Endoskeleton Structures. Small, 2016, 12, 2283-2290.	10.0	62
80	The Evolution of Active Particles: Toward Externally Powered Self-Propelling and Self-Reconfiguring Particle Systems. Chem, 2017, 3, 539-559.	11.7	62
81	3D-Printed Silicone Soft Architectures with Programmed Magneto-Capillary Reconfiguration. Advanced Materials Technologies, 2019, 4, 1800528.	5.8	62
82	AutoRally: An Open Platform for Aggressive Autonomous Driving. IEEE Control Systems, 2019, 39, 26-55.	0.8	61
83	Rapid Deposition of Gold Nanoparticle Films with Controlled Thickness and Structure by Convective Assembly. Chemistry of Materials, 2005, 17, 28-35.	6.7	57
84	Stabilization of oil continuous emulsions with colloidal particles from water-insoluble plant proteins. Food Hydrocolloids, 2018, 82, 89-95.	10.7	57
85	Supercolloidal Spinners: Complex Active Particles for Electrically Powered and Switchable Rotation. Advanced Functional Materials, 2018, 28, 1803465.	14.9	55
86	Investigation of Thin Liquid Films of Small Diameters and High Capillary Pressures by a Miniaturized Cell. Journal of Colloid and Interface Science, 1995, 175, 68-76.	9.4	54
87	Capillary Bridging as a Tool for Assembling Discrete Clusters of Patchy Particles. Journal of the American Chemical Society, 2016, 138, 14948-14953.	13.7	53
88	Soft dendritic microparticles with unusual adhesion and structuring properties. Nature Materials, 2019, 18, 1315-1320.	27.5	53
89	Spontaneous Cyclic Dimpling in Emulsion Films Due to Surfactant Mass Transfer between the Phases. Journal of Colloid and Interface Science, 1993, 159, 497-501.	9.4	52
90	Role of the Micro- and Nanostructure in the Performance of Surface-Enhanced Raman Scattering Substrates Assembled from Gold Nanoparticles. Applied Spectroscopy, 2005, 59, 401-409.	2.2	52

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91	On-chip electric field driven assembly of biocomposites from live cells and functionalized particles. <i>Soft Matter</i> , 2008, 4, 726.	2.7	52
92	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. <i>Lab on A Chip</i> , 2017, 17, 710-716.	6.0	50
93	Controlling the Shape of Evaporating Droplets by Ionic Strength: Formation of Highly Anisometric Silica Supraparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 586-590.	13.8	49
94	Formation of Polymer Microrods in Shear Flow by Emulsification â Solvent Attrition Mechanism. <i>Langmuir</i> , 2006, 22, 765-774.	3.5	48
95	Sessile Droplet Templating of Miniature Porous Hemispheres from Colloid Crystals. <i>Chemistry of Materials</i> , 2007, 19, 141-143.	6.7	47
96	Anisotropic Particle Synthesis Inside Droplet Templates on Superhydrophobic Surfaces. <i>Macromolecular Rapid Communications</i> , 2010, 31, 190-195.	3.9	47
97	Phase diagram of two-dimensional systems of dipole-like colloids. <i>Soft Matter</i> , 2012, 8, 1521-1531.	2.7	47
98	Understanding lignin micro- and nanoparticle nucleation and growth in aqueous suspensions by solvent fractionation. <i>Green Chemistry</i> , 2021, 23, 1001-1012.	9.0	47
99	Aqueous soft matter based photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 72-79.	6.7	46
100	Ionoprinted Multi-Responsive Hydrogel Actuators. <i>Micromachines</i> , 2016, 7, 98.	2.9	46
101	Directed assembly of yeast cells into living yeastosomes by microbubble templating. <i>Soft Matter</i> , 2010, 6, 3494.	2.7	45
102	On-chip collection of particles and cells by AC electroosmotic pumping and dielectrophoresis using asymmetric microelectrodes. <i>Biomicrofluidics</i> , 2011, 5, 34113-3411317.	2.4	45
103	Scalable Liquid ShearâDriven Fabrication of Polymer Nanofibers. <i>Advanced Materials</i> , 2015, 27, 2642-2647.	21.0	45
104	Multidirectional colloidal assembly in concurrent electric and magnetic fields. <i>Soft Matter</i> , 2016, 12, 7747-7758.	2.7	45
105	On-Line Spectroscopic Characterization of Sodium Cyanide with Nanostructured Gold Surface-Enhanced Raman Spectroscopy Substrates. <i>Applied Spectroscopy</i> , 2002, 56, 1524-1530.	2.2	44
106	Wireless Wearable Electrochemical Sensing Platform with Zero-Power Osmotic Sweat Extraction for Continuous Lactate Monitoring. <i>ACS Sensors</i> , 2022, 7, 2037-2048.	7.8	44
107	Capillary Image Forces. <i>Journal of Colloid and Interface Science</i> , 1994, 167, 66-73.	9.4	43
108	On-Chip Dielectrophoretic Coassembly of Live Cells and Particles into Responsive Biomaterials. <i>Langmuir</i> , 2010, 26, 3441-3452.	3.5	43

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109	Co-Assembly of Oppositely Charged Particles into Linear Clusters and Chains of Controllable Length. Scientific Reports, 2012, 2, 1004.	3.3	41
110	Printable homocomposite hydrogels with synergistically reinforced molecular-colloidal networks. Nature Communications, 2021, 12, 2834.	12.8	41
111	Abnormal Thickness and Stability of Nonequilibrium Liquid Films. Physical Review Letters, 1995, 75, 264-267.	7.8	40
112	Casein precipitation equilibria in the presence of calcium ions and phosphates. Colloids and Surfaces B: Biointerfaces, 2003, 29, 297-307.	5.0	39
113	Development and evaluation of realistic microbioassays in freely suspended droplets on a chip. Biomicrofluidics, 2007, 1, 014107.	2.4	39
114	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. ACS Applied Materials & Interfaces, 2021, 13, 8071-8081.	8.0	39
115	Electric-Field-Assisted Convective Assembly of Colloidal Crystal Coatings. Langmuir, 2010, 26, 10380-10385.	3.5	37
116	Self-assembly in binary mixtures of dipolar colloids: Molecular dynamics simulations. Journal of Chemical Physics, 2010, 133, 064511.	3.0	37
117	Experimental investigations on model emulsion systems stabilized with non-ionic surfactant blends. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 83, 43-55.	4.7	36
118	Remote Steering of Self-Propelling Microcircuits by Modulated Electric Field. Advanced Functional Materials, 2015, 25, 5512-5519.	14.9	36
119	The role of additives for the behaviour of thin emulsion films stabilized by proteins. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 123-124, 155-167.	4.7	35
120	Two-Dimensional Nanoparticle Arrays Derived from Ferritin Monolayers. Langmuir, 2007, 23, 5498-5504.	3.5	35
121	Ionic current devices—Recent progress in the merging of electronic, microfluidic, and biomimetic structures. Biomicrofluidics, 2013, 7, 31501.	2.4	35
122	Bicontinuous gels formed by self-assembly of dipolar colloid particles. Soft Matter, 2010, 6, 480-484.	2.7	33
123	Artificial leaf device for hydrogen generation from immobilised <i>C. reinhardtii</i> microalgae. Journal of Materials Chemistry A, 2015, 3, 20698-20707.	10.3	33
124	A Critical Review of the Performance and Soil Biodegradability Profiles of Biobased Natural and Chemically Synthesized Polymers in Industrial Applications. Environmental Science & Technology, 2022, 56, 2071-2095.	10.0	33
125	Ion-Current Diode with Aqueous Gel/SiO ₂ Nanofilm Interfaces. Small, 2010, 6, 1393-1397.	10.0	32
126	Principles of long-term fluids handling in paper-based wearables with capillary “evaporative transport. Biomicrofluidics, 2020, 14, 034112.	2.4	32

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127	Active Reversible Swimming of Magnetically Assembled “Microscallop” in Non-Newtonian Fluids. <i>Langmuir</i> , 2020, 36, 7148-7154.	3.5	30
128	Regenerable Photovoltaic Devices with a Hydrogel-Embedded Microvascular Network. <i>Scientific Reports</i> , 2013, 3, 2357.	3.3	28
129	Live celloidosome structures based on the assembly of individual cells by colloid interactions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11912.	2.8	27
130	Two-dimensional colloidal networks induced by a uni-axial external field. <i>Soft Matter</i> , 2013, 9, 2518.	2.7	27
131	Characterization and control of surfactant-mediated Norovirus interactions. <i>Soft Matter</i> , 2015, 11, 8621-8631.	2.7	27
132	Physicochemical Variables Affecting the Rheology and Microstructure of Rennet Casein Gels. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2688-2697.	5.2	26
133	Macromol. Rapid Commun. 2/2010. <i>Macromolecular Rapid Communications</i> , 2010, 31, .	3.9	26
134	Alternating current-dielectrophoresis driven on-chip collection and chaining of green microalgae in freshwaters. <i>Biomicrofluidics</i> , 2013, 7, 24109.	2.4	26
135	Effect of the surface expansion and wettability of the capillary on the dynamic surface tension measured by the maximum bubble pressure method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 113, 117-126.	4.7	24
136	Materials of Controlled Shape and Stiffness with Photocurable Microfluidic Endoskeleton. <i>Advanced Materials</i> , 2009, 21, 2803-2807.	21.0	24
137	The dynamics and stability of lubricating oil films during droplet transport by electrowetting in microfluidic devices. <i>Biomicrofluidics</i> , 2015, 9, 034104.	2.4	24
138	Biocoatings: challenges to expanding the functionality of waterborne latex coatings by incorporating concentrated living microorganisms. <i>Journal of Coatings Technology Research</i> , 2017, 14, 791-808.	2.5	24
139	Intense and selective coloration of foams stabilized with functionalized particles. <i>Journal of Materials Chemistry</i> , 2009, 19, 7043.	6.7	23
140	Assembly of protein structures on liposomes by non-specific and specific interactions. <i>Advances in Biophysics</i> , 1997, 34, 139-157.	0.5	22
141	Mobility of Adsorbed Proteins Studied by Fluorescence Recovery after Photobleaching. <i>Langmuir</i> , 2003, 19, 3705-3711.	3.5	22
142	Biomimetic photocatalytic reactor with a hydrogel-embedded microfluidic network. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11106.	10.3	22
143	Mechanochromic composite elastomers for additive manufacturing and low strain mechanophore activation. <i>Polymer Chemistry</i> , 2019, 10, 5985-5991.	3.9	22
144	Multiscale Self-Assembly of Distinctive Weblike Structures from Evaporated Drops of Dilute American Whiskeys. <i>ACS Nano</i> , 2020, 14, 5417-5425.	14.6	22

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145	Electrokinetic behavior in synthatic process of composite particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 359-371.	4.7	21
146	Cooling Effects on a Model Rennet Casein Gel System:Â Part I. Rheological Characterization. Langmuir, 2004, 20, 7399-7405.	3.5	21
147	Magnetophoretic assembly of flexible nanoparticles/lipid microfilaments. Faraday Discussions, 2015, 181, 437-448.	3.2	21
148	Interfacial properties and emulsion stability in fluorinated oilâ€”non-fluorinated oilâ€”surfactant(s) systems. Colloids and Surfaces, 1992, 67, 81-93.	0.9	20
149	On-chip latex agglutination immunoassay readout by electrochemical impedance spectroscopy. Lab on A Chip, 2012, 12, 4279.	6.0	20
150	Analysis of the Field-Assisted Permanent Assembly of Oppositely Charged Particles. Langmuir, 2014, 30, 6577-6587.	3.5	19
151	Two-Dimensional Algal Collection and Assembly by Combining AC-Dielectrophoresis with Fluorescence Detection for Contaminant-Induced Oxidative Stress Sensing. Biosensors, 2015, 5, 319-336.	4.7	19
152	Active Steerable Catalytic Supraparticles Shuttling on Preprogrammed Vertical Trajectories. Advanced Materials Interfaces, 2016, 3, 1600095.	3.7	19
153	Revisiting the colloidal fundamentals of water-dispersible polyesters: interactions and self-assembly of polymer nanoaggregates in water. Soft Matter, 2018, 14, 2118-2130.	2.7	19
154	Investigation of interfacial properties of pure and mixed poloxamers for surfactant-mediated shear protection of mammalian cells. Colloids and Surfaces B: Biointerfaces, 2017, 156, 358-365.	5.0	18
155	Reconfigurable engineered motile semiconductor microparticles. Nature Communications, 2018, 9, 1791.	12.8	18
156	What makes epoxy-phenolic coatings on metals ubiquitous: Surface energetics and molecular adhesion characteristics. Journal of Colloid and Interface Science, 2022, 608, 634-643.	9.4	18
157	Osmotically Enabled Wearable Patch for Sweat Harvesting and Lactate Quantification. Micromachines, 2021, 12, 1513.	2.9	18
158	Design and characterization of hydrogel-based microfluidic devices with biomimetic solute transport networks. Biomicrofluidics, 2017, 11, 024104.	2.4	17
159	Control of the Folding Dynamics of Selfâ€”Reconfiguring Magnetic Microbots Using Liquid Crystallinity. Advanced Intelligent Systems, 2020, 2, 1900114.	6.1	17
160	In Vivo Toxicity Assessment of Chitosan-Coated Lignin Nanoparticles in Embryonic Zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.1	17
161	Cooling Effects on a Model Rennet Casein Gel System:Â Part II. Permeability and Microscopy. Langmuir, 2004, 20, 7406-7411.	3.5	16
162	Microfluidic characterization of sustained solute release from porous supraparticles. Physical Chemistry Chemical Physics, 2010, 12, 11975.	2.8	15

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163	Convective Assembly of 2D Lattices of Virus-like Particles Visualized by In-Situ Grazing-Incidence Small-Angle X-Ray Scattering. <i>Small</i> , 2011, 7, 1043-1050.	10.0	15
164	Continuous Convective-Sedimentation Assembly of Colloidal Microsphere Coatings for Biotechnology Applications. <i>Coatings</i> , 2013, 3, 26-48.	2.6	15
165	Real-time monitoring and control of CHO cell apoptosis by in situ multifrequency scanning dielectric spectroscopy. <i>Process Biochemistry</i> , 2019, 80, 138-145.	3.7	15
166	Dissolution behaviour of ferric pyrophosphate and its mixtures with soluble pyrophosphates: Potential strategy for increasing iron bioavailability. <i>Food Chemistry</i> , 2016, 208, 97-102.	8.2	14
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168	Controlled Formation of Patchy Anisometric Fumed Silica Supraparticles in Droplets on Bent Superhydrophobic Surfaces. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600176.	2.3	14
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