

Orlin D Velev

List of Publications by Year in descending order

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225
papers

21,267
citations

12322

69
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9579

142
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235
all docs

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.	1.6	1,091
2	Porous silica via colloidal crystallization. <i>Nature</i> , 1997, 389, 447-448.	13.7	820
3	Charging of Oil/Water Interfaces Due to Spontaneous Adsorption of Hydroxyl Ions. <i>Langmuir</i> , 1996, 12, 2045-2051.	1.6	705
4	Assembly of Latex Particles by Using Emulsion Droplets as Templates. 1. Microstructured Hollow Spheres. <i>Langmuir</i> , 1996, 12, 2374-2384.	1.6	580
5	Dielectrophoretic Assembly of Electrically Functional Microwires from Nanoparticle Suspensions. <i>Science</i> , 2001, 294, 1082-1086.	6.0	533
6	Structured Porous Materials via Colloidal Crystal Templating: From Inorganic Oxides to Metals. <i>Advanced Materials</i> , 2000, 12, 531-534.	11.1	528
7	An environmentally benign antimicrobial nanoparticle based on a silver-infused lignin core. <i>Nature Nanotechnology</i> , 2015, 10, 817-823.	15.6	493
8	A class of porous metallic nanostructures. <i>Nature</i> , 1999, 401, 548-548.	13.7	481
9	Controlled, Rapid Deposition of Structured Coatings from Micro- and Nanoparticle Suspensions. <i>Langmuir</i> , 2004, 20, 2099-2107.	1.6	481
10	A Class of Microstructured Particles Through Colloidal Crystallization. <i>Science</i> , 2000, 287, 2240-2243.	6.0	478
11	In Situ Assembly of Colloidal Particles into Miniaturized Biosensors. <i>Langmuir</i> , 1999, 15, 3693-3698.	1.6	461
12	Induced-Charge Electrophoresis of Metallodielectric Particles. <i>Physical Review Letters</i> , 2008, 100, 058302.	2.9	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.	3.4	385
14	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. <i>Nature Communications</i> , 2013, 4, 2257.	5.8	380
15	Materials Fabricated by Micro- and Nanoparticle Assembly – The Challenging Path from Science to Engineering. <i>Advanced Materials</i> , 2009, 21, 1897-1905.	11.1	374
16	Foam Superstabilization by Polymer Microrods. <i>Langmuir</i> , 2004, 20, 10371-10374.	1.6	361
17	Colloidal crystals as templates for porous materials. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 56-63.	3.4	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.	6.6	329

#	ARTICLE	IF	CITATIONS
19	Fabrication of Environmentally Biodegradable Lignin Nanoparticles. <i>ChemPhysChem</i> , 2012, 13, 4235-4243.	1.0	326
20	On-chip manipulation of free droplets. <i>Nature</i> , 2003, 426, 515-516.	13.7	324
21	Protein Interactions in Solution Characterized by Light and Neutron Scattering: Comparison of Lysozyme and Chymotrypsinogen. <i>Biophysical Journal</i> , 1998, 75, 2682-2697.	0.2	319
22	Electro-actuated hydrogel walkers with dual responsive legs. <i>Soft Matter</i> , 2014, 10, 1337-1348.	1.2	301
23	Fabrication of "Hairly" Colloidosomes with Shells of Polymeric Microrods. <i>Journal of the American Chemical Society</i> , 2004, 126, 8092-8093.	6.6	300
24	On-chip micromanipulation and assembly of colloidal particles by electric fields. <i>Soft Matter</i> , 2006, 2, 738.	1.2	300
25	Remotely powered self-propelling particles and micropumps based on miniature diodes. <i>Nature Materials</i> , 2007, 6, 235-240.	13.3	279
26	Dielectrophoretic Assembly of Metallodielectric Janus Particles in AC Electric Fields. <i>Langmuir</i> , 2008, 24, 13312-13320.	1.6	261
27	Two-Dimensional Crystallization of Microspheres by a Coplanar AC Electric Field. <i>Langmuir</i> , 2004, 20, 2108-2116.	1.6	243
28	Synthesis and Characterization of Biodegradable Lignin Nanoparticles with Tunable Surface Properties. <i>Langmuir</i> , 2016, 32, 6468-6477.	1.6	220
29	Reconfigurable responsive structures assembled from magnetic Janus particles. <i>Soft Matter</i> , 2009, 5, 1285.	1.2	217
30	Anisotropic particle synthesis in dielectrophoretically controlled microdroplet reactors. <i>Nature Materials</i> , 2004, 4, 98-102.	13.3	205
31	Fabrication of asymmetrically coated colloid particles by microcontact printing techniques. <i>Journal of Materials Chemistry</i> , 2003, 13, 2445.	6.7	204
32	Towards All-Soft Matter Circuits: Prototypes of Quasi-Liquid Devices with Memristor Characteristics. <i>Advanced Materials</i> , 2011, 23, 3559-3564.	11.1	189
33	Long-Term Stabilization of Foams and Emulsions with In-Situ Formed Microparticles from Hydrophobic Cellulose. <i>Langmuir</i> , 2008, 24, 9245-9253.	1.6	183
34	Characterization and Optimization of Gold Nanoparticle-Based Silver-Enhanced Immunoassays. <i>Analytical Chemistry</i> , 2007, 79, 3810-3820.	3.2	181
35	Convective Assembly of Antireflective Silica Coatings with Controlled Thickness and Refractive Index. <i>Chemistry of Materials</i> , 2005, 17, 3642-3651.	3.2	158
36	Ordered Silicon Nanocavity Arrays in Surface-Assisted Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 1088-1095.	3.2	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.	1.6	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.	1.2	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-Diffracting Assemblies from Microspheres and Nanoparticles in Droplets on a Superhydrophobic Surface. <i>Advanced Materials</i> , 2008, 20, 4263-4268.	11.1	147
41	Polyelectrolyte Diode: Nonlinear Current Response of a Junction between Aqueous Ionic Gels. <i>Journal of the American Chemical Society</i> , 2007, 129, 10801-10806.	6.6	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.	2.3	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.	11.1	140
45	Dielectrophoretic assembly of oriented and switchable two-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2003, 82, 949-951.	1.5	134
46	An AC Electrokinetic Technique for Collection and Concentration of Particles and Cells on Patterned Electrodes. <i>Langmuir</i> , 2005, 21, 6603-6612.	1.6	130
47	Chained Iron Microparticles for Directionally Controlled Actuation of Soft Robots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11895-11901.	4.0	128
48	Fabrication of dipolar colloid particles by microcontact printing. <i>Chemical Communications</i> , 2003, , 2296.	2.2	126
49	Programmed assembly of metallodielectric patchy particles in external AC electric fields. <i>Soft Matter</i> , 2010, 6, 1413.	1.2	124
50	Magnetically Responsive Pickering Foams. <i>Journal of the American Chemical Society</i> , 2011, 133, 13856-13859.	6.6	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.	7.8	113
53	Engineering of Self-Propelling Microbots and Microdevices Powered by Magnetic and Electric Fields. <i>Advanced Functional Materials</i> , 2018, 28, 1705953.	7.8	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.	11.1	103

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55	Surface-Guided Templating of Particle Assemblies Inside Drying Sessile Droplets. <i>Langmuir</i> , 2008, 24, 1371-1380.	1.6	99
56	Soft electrodes combining hydrogel and liquid metal. <i>Soft Matter</i> , 2018, 14, 3296-3303.	1.2	99
57	Direct measurement of lateral capillary forces. <i>Langmuir</i> , 1993, 9, 3702-3709.	1.6	97
58	Emulsion-Based Synthesis of Reversibly Swellable, Magnetic Nanoparticle-Embedded Polymer Microcapsules. <i>Chemistry of Materials</i> , 2006, 18, 3308-3313.	3.2	94
59	Sequence-encoded colloidal origami and microbot assemblies from patchy magnetic cubes. <i>Science Advances</i> , 2017, 3, e1701108.	4.7	90
60	Assembly of Reconfigurable Colloidal Structures by Multidirectional Field-Induced Interactions. <i>Langmuir</i> , 2015, 31, 7897-7908.	1.6	89
61	Nanocapillarity-mediated magnetic assembly of nanoparticles into ultraflexible filaments and reconfigurable networks. <i>Nature Materials</i> , 2015, 14, 1104-1109.	13.3	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.	11.1	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.	5.0	83
65	Microwave, Photo- and Thermally Responsive PNIPAm-Gold Nanoparticle Microgels. <i>Langmuir</i> , 2008, 24, 11959-11966.	1.6	82
66	Multi-stimuli responsive foams combining particles and self-assembling fatty acids. <i>Chemical Science</i> , 2013, 4, 3874.	3.7	77
67	Evaporation-Induced Particle Microseparations inside Droplets Floating on a Chip. <i>Langmuir</i> , 2006, 22, 1459-1468.	1.6	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.	5.2	73
69	Gel-Based Self-Propelling Particles Get Programmed To Dance. <i>Langmuir</i> , 2012, 28, 10128-10135.	1.6	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.	2.4	68
71	Smart Nonaqueous Foams from Lipid-Based Oleogel. <i>Langmuir</i> , 2015, 31, 13501-13510.	1.6	68
72	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. <i>Nanoscale</i> , 2016, 8, 1309-1313.	2.8	68

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73	Formation of two-dimensional colloid crystals in liquid films under the action of capillary forces. <i>Journal of Physics Condensed Matter</i> , 1994, 6, A395-A402.	0.7	66
74	Field-directed assembly of patchy anisotropic microparticles with defined shape. <i>Soft Matter</i> , 2013, 9, 9219.	1.2	66
75	Remotely powered distributed microfluidic pumps and mixers based on miniature diodes. <i>Lab on A Chip</i> , 2008, 8, 117-124.	3.1	65
76	Stability and Viscoelasticity of Magneto-Pickering Foams. <i>Langmuir</i> , 2013, 29, 10019-10027.	1.6	65
77	MATERIALS SCIENCE: Enhanced: Self-Assembly of Unusual Nanoparticle Crystals. <i>Science</i> , 2006, 312, 376-377.	6.0	64
78	Phase diagram for stimulus-responsive materials containing dipolar colloidal particles. <i>Physical Review E</i> , 2008, 77, 031401.	0.8	62
79	Bending of Responsive Hydrogel Sheets Guided by Field-Assembled Microparticle Endoskeleton Structures. <i>Small</i> , 2016, 12, 2283-2290.	5.2	62
80	The Evolution of Active Particles: Toward Externally Powered Self-Propelling and Self-Reconfiguring Particle Systems. <i>CheM</i> , 2017, 3, 539-559.	5.8	62
81	3D-Printed Silicone Soft Architectures with Programmed Magneto-Capillary Reconfiguration. <i>Advanced Materials Technologies</i> , 2019, 4, 1800528.	3.0	62
82	AutoRally: An Open Platform for Aggressive Autonomous Driving. <i>IEEE Control Systems</i> , 2019, 39, 26-55.	1.0	61
83	Rapid Deposition of Gold Nanoparticle Films with Controlled Thickness and Structure by Convective Assembly. <i>Chemistry of Materials</i> , 2005, 17, 28-35.	3.2	57
84	Stabilization of oil continuous emulsions with colloidal particles from water-insoluble plant proteins. <i>Food Hydrocolloids</i> , 2018, 82, 89-95.	5.6	57
85	Supercolloidal Spinners: Complex Active Particles for Electrically Powered and Switchable Rotation. <i>Advanced Functional Materials</i> , 2018, 28, 1803465.	7.8	55
86	Investigation of Thin Liquid Films of Small Diameters and High Capillary Pressures by a Miniaturized Cell. <i>Journal of Colloid and Interface Science</i> , 1995, 175, 68-76.	5.0	54
87	Capillary Bridging as a Tool for Assembling Discrete Clusters of Patchy Particles. <i>Journal of the American Chemical Society</i> , 2016, 138, 14948-14953.	6.6	53
88	Soft dendritic microparticles with unusual adhesion and structuring properties. <i>Nature Materials</i> , 2019, 18, 1315-1320.	13.3	53
89	Spontaneous Cyclic Dimpling in Emulsion Films Due to Surfactant Mass Transfer between the Phases. <i>Journal of Colloid and Interface Science</i> , 1993, 159, 497-501.	5.0	52
90	Role of the Micro- and Nanostructure in the Performance of Surface-Enhanced Raman Scattering Substrates Assembled from Gold Nanoparticles. <i>Applied Spectroscopy</i> , 2005, 59, 401-409.	1.2	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.	1.2	52
92	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. <i>Lab on A Chip</i> , 2017, 17, 710-716.	3.1	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.	7.2	49
94	Formation of Polymer Microrods in Shear Flow by Emulsification â Solvent Attrition Mechanism. <i>Langmuir</i> , 2006, 22, 765-774.	1.6	48
95	Sessile Droplet Templating of Miniature Porous Hemispheres from Colloid Crystals. <i>Chemistry of Materials</i> , 2007, 19, 141-143.	3.2	47
96	Anisotropic Particle Synthesis Inside Droplet Templates on Superhydrophobic Surfaces. <i>Macromolecular Rapid Communications</i> , 2010, 31, 190-195.	2.0	47
97	Phase diagram of two-dimensional systems of dipole-like colloids. <i>Soft Matter</i> , 2012, 8, 1521-1531.	1.2	47
98	Understanding lignin micro- and nanoparticle nucleation and growth in aqueous suspensions by solvent fractionation. <i>Green Chemistry</i> , 2021, 23, 1001-1012.	4.6	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.	1.4	46
101	Directed assembly of yeast cells into living yeastosomes by microbubble templating. <i>Soft Matter</i> , 2010, 6, 3494.	1.2	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.	1.2	45
103	Scalable Liquid ShearâDriven Fabrication of Polymer Nanofibers. <i>Advanced Materials</i> , 2015, 27, 2642-2647.	11.1	45
104	Multidirectional colloidal assembly in concurrent electric and magnetic fields. <i>Soft Matter</i> , 2016, 12, 7747-7758.	1.2	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.	1.2	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.	4.0	44
107	Capillary Image Forces. <i>Journal of Colloid and Interface Science</i> , 1994, 167, 66-73.	5.0	43
108	On-Chip Dielectrophoretic Coassembly of Live Cells and Particles into Responsive Biomaterials. <i>Langmuir</i> , 2010, 26, 3441-3452.	1.6	43

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109	Co-Assembly of Oppositely Charged Particles into Linear Clusters and Chains of Controllable Length. <i>Scientific Reports</i> , 2012, 2, 1004.	1.6	41
110	Printable homocomposite hydrogels with synergistically reinforced molecular-colloidal networks. <i>Nature Communications</i> , 2021, 12, 2834.	5.8	41
111	Abnormal Thickness and Stability of Nonequilibrium Liquid Films. <i>Physical Review Letters</i> , 1995, 75, 264-267.	2.9	40
112	Casein precipitation equilibria in the presence of calcium ions and phosphates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 29, 297-307.	2.5	39
113	Development and evaluation of realistic microbioassays in freely suspended droplets on a chip. <i>Biomicrofluidics</i> , 2007, 1, 014107.	1.2	39
114	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8071-8081.	4.0	39
115	Electric-Field-Assisted Convective Assembly of Colloidal Crystal Coatings. <i>Langmuir</i> , 2010, 26, 10380-10385.	1.6	37
116	Self-assembly in binary mixtures of dipolar colloids: Molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2010, 133, 064511.	1.2	37
117	Experimental investigations on model emulsion systems stabilized with non-ionic surfactant blends. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 83, 43-55.	2.3	36
118	Remote Steering of Self-Propelling Microcircuits by Modulated Electric Field. <i>Advanced Functional Materials</i> , 2015, 25, 5512-5519.	7.8	36
119	The role of additives for the behaviour of thin emulsion films stabilized by proteins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 123-124, 155-167.	2.3	35
120	Two-Dimensional Nanoparticle Arrays Derived from Ferritin Monolayers. <i>Langmuir</i> , 2007, 23, 5498-5504.	1.6	35
121	Ionic current devices—Recent progress in the merging of electronic, microfluidic, and biomimetic structures. <i>Biomicrofluidics</i> , 2013, 7, 31501.	1.2	35
122	Bicontinuous gels formed by self-assembly of dipolar colloid particles. <i>Soft Matter</i> , 2010, 6, 480-484.	1.2	33
123	Artificial leaf device for hydrogen generation from immobilised <i>C. reinhardtii</i> microalgae. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20698-20707.	5.2	33
124	A Critical Review of the Performance and Soil Biodegradability Profiles of Biobased Natural and Chemically Synthesized Polymers in Industrial Applications. <i>Environmental Science & Technology</i> , 2022, 56, 2071-2095.	4.6	33
125	Ion-Current Diode with Aqueous Gel/SiO ₂ Nanofilm Interfaces. <i>Small</i> , 2010, 6, 1393-1397.	5.2	32
126	Principles of long-term fluids handling in paper-based wearables with capillary “evaporative transport. <i>Biomicrofluidics</i> , 2020, 14, 034112.	1.2	32

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127	Active Reversible Swimming of Magnetically Assembled "Microscallop" in Non-Newtonian Fluids. <i>Langmuir</i> , 2020, 36, 7148-7154.	1.6	30
128	Regenerable Photovoltaic Devices with a Hydrogel-Embedded Microvascular Network. <i>Scientific Reports</i> , 2013, 3, 2357.	1.6	28
129	Live celloidosome structures based on the assembly of individual cells by colloid interactions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11912.	1.3	27
130	Two-dimensional colloidal networks induced by a uni-axial external field. <i>Soft Matter</i> , 2013, 9, 2518.	1.2	27
131	Characterization and control of surfactant-mediated Norovirus interactions. <i>Soft Matter</i> , 2015, 11, 8621-8631.	1.2	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.	2.4	26
133	Macromol. Rapid Commun. 2/2010. <i>Macromolecular Rapid Communications</i> , 2010, 31, .	2.0	26
134	Alternating current-dielectrophoresis driven on-chip collection and chaining of green microalgae in freshwaters. <i>Biomicrofluidics</i> , 2013, 7, 24109.	1.2	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.	2.3	24
136	Materials of Controlled Shape and Stiffness with Photocurable Microfluidic Endoskeleton. <i>Advanced Materials</i> , 2009, 21, 2803-2807.	11.1	24
137	The dynamics and stability of lubricating oil films during droplet transport by electrowetting in microfluidic devices. <i>Biomicrofluidics</i> , 2015, 9, 034104.	1.2	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.	1.2	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.	0.6	22
141	Mobility of Adsorbed Proteins Studied by Fluorescence Recovery after Photobleaching. <i>Langmuir</i> , 2003, 19, 3705-3711.	1.6	22
142	Biomimetic photocatalytic reactor with a hydrogel-embedded microfluidic network. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11106.	5.2	22
143	Mechanochromic composite elastomers for additive manufacturing and low strain mechanophore activation. <i>Polymer Chemistry</i> , 2019, 10, 5985-5991.	1.9	22
144	Multiscale Self-Assembly of Distinctive Weblike Structures from Evaporated Drops of Dilute American Whiskeys. <i>ACS Nano</i> , 2020, 14, 5417-5425.	7.3	22

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145	Electrokinetic behavior in synthetic process of composite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 159, 359-371.	2.3	21
146	Cooling Effects on a Model Rennet Casein Gel System: Part I. Rheological Characterization. <i>Langmuir</i> , 2004, 20, 7399-7405.	1.6	21
147	Magnetophoretic assembly of flexible nanoparticles/lipid microfilaments. <i>Faraday Discussions</i> , 2015, 181, 437-448.	1.6	21
148	Interfacial properties and emulsion stability in fluorinated oil/non-fluorinated oil surfactant(s) systems. <i>Colloids and Surfaces</i> , 1992, 67, 81-93.	0.9	20
149	On-chip latex agglutination immunoassay readout by electrochemical impedance spectroscopy. <i>Lab on a Chip</i> , 2012, 12, 4279.	3.1	20
150	Analysis of the Field-Assisted Permanent Assembly of Oppositely Charged Particles. <i>Langmuir</i> , 2014, 30, 6577-6587.	1.6	19
151	Two-Dimensional Algal Collection and Assembly by Combining AC-Dielectrophoresis with Fluorescence Detection for Contaminant-Induced Oxidative Stress Sensing. <i>Biosensors</i> , 2015, 5, 319-336.	2.3	19
152	Active Steerable Catalytic Supraparticles Shuttling on Preprogrammed Vertical Trajectories. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600095.	1.9	19
153	Revisiting the colloidal fundamentals of water-dispersible polyesters: interactions and self-assembly of polymer nanoaggregates in water. <i>Soft Matter</i> , 2018, 14, 2118-2130.	1.2	19
154	Investigation of interfacial properties of pure and mixed poloxamers for surfactant-mediated shear protection of mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 358-365.	2.5	18
155	Reconfigurable engineered motile semiconductor microparticles. <i>Nature Communications</i> , 2018, 9, 1791.	5.8	18
156	What makes epoxy-phenolic coatings on metals ubiquitous: Surface energetics and molecular adhesion characteristics. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 634-643.	5.0	18
157	Osmotically Enabled Wearable Patch for Sweat Harvesting and Lactate Quantification. <i>Micromachines</i> , 2021, 12, 1513.	1.4	18
158	Design and characterization of hydrogel-based microfluidic devices with biomimetic solute transport networks. <i>Biomicrofluidics</i> , 2017, 11, 024104.	1.2	17
159	Control of the Folding Dynamics of Self-Reconfiguring Magnetic Microbots Using Liquid Crystallinity. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900114.	3.3	17
160	In Vivo Toxicity Assessment of Chitosan-Coated Lignin Nanoparticles in Embryonic Zebrafish (<i>Danio rerio</i>). <i>Journal of Applied Toxicology</i> , 2019, 39, 1075-1085.	1.9	17
161	Cooling Effects on a Model Rennet Casein Gel System: Part II. Permeability and Microscopy. <i>Langmuir</i> , 2004, 20, 7406-7411.	1.6	16
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