Bartosz A Grzybowski

List of Publications by Year
in descending order

299 papers	29,531 citations	6592 79 h-index	5519 163 g-index
329 all docs	329 docs citations	329 times ranked	30091 citing authors

#	Article	IF	Citations
1	Self-Assembly at All Scales. Science, 2002, 295, 2418-2421.	6.0	6,431
2	Nanoscale Forces and Their Uses in Selfâ€Assembly. Small, 2009, 5, 1600-1630.	5.2	1,362
3	Electrostatic Self-Assembly of Binary Nanoparticle Crystals with a Diamond-Like Lattice. Science, 2006, 312, 420-424.	6.0	841
4	Great expectations: can artificial molecular machines deliver on their promise?. Chemical Society Reviews, 2012, 41, 19-30.	18.7	796
5	The Mosaic of Surface Charge in Contact Electrification. Science, 2011, 333, 308-312.	6.0	667
6	Nanoparticles functionalised with reversible molecular and supramolecular switches. Chemical Society Reviews, 2010, 39, 2203.	18.7	484
7	Dynamic self-assembly of magnetized, millimetre-sized objects rotating at a liquidâ€“air interface. Nature, 2000, 405, 1033-1036.	13.7	481
8	Swimming bacteria power microscopic gears. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 969-974.	3.3	458
9	Computerâ€Assisted Synthetic Planning: The End of the Beginning. Angewandte Chemie - International Edition, 2016, 55, 5904-5937.	7.2	395
10	Self-assembly: from crystals to cells. Soft Matter, 2009, 5, 1110.	1.2	385
11	Light-controlled self-assembly of reversible and irreversible nanoparticle suprastructures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10305-10309.	3.3	384
12	The nanotechnology of life-inspired systems. Nature Nanotechnology, 2016, 11, 585-592.	15.6	348
13	Writing Selfâ€Erasing Images using Metastable Nanoparticle â€œInksâ€. Angewandte Chemie - International Edition, 2009, 48, 7035-7039.	7.2	344
14	Directing cell motions on micropatterned ratchets. Nature Physics, 2009, 5, 606-612.	6.5	281
15	Plastic and Moldable Metals by Self-Assembly of Sticky Nanoparticle Aggregates. Science, 2007, 316, 261-264.	6.0	270
16	Principles and Implementations of Dissipative (Dynamic) Self-Assembly. Journal of Physical Chemistry B, 2006, 110, 2482-2496.	1.2	268
17	Maze Solving by Chemotactic Droplets. Journal of the American Chemical Society, 2010, 132, 1198-1199.	6.6	254
18	Janus Particle Synthesis, Assembly, and Application. Langmuir, 2017, 33, 6964-6977.	1.6	251

#	Article	IF	Citations
19	Adsorption of Proteins to Hydrophobic Sites on Mixed Self-Assembled Monolayersâ€. Langmuir, 2003, 19, 1861-1872.	1.6	243
20	From dynamic self-assembly to networked chemical systems. Chemical Society Reviews, 2017, 46, 5647-5678.	18.7	241
21	Photoconductance and inverse photoconductance in films of functionalized metal nanoparticles. Nature, 2009, 460, 371-375.	13.7	239
22	Nanoseparations: Strategies for size and/or shape-selective purification of nanoparticles. Current Opinion in Colloid and Interface Science, 2011, 16, 135-148.	3.4	235
23	Efficient Syntheses of Diverse, Medicinally Relevant Targets Planned by Computer and Executed in the Laboratory. CheM, 2018, 4, 522-532.	5.8	227
24	Electrostatics at the nanoscale. Nanoscale, 2011, 3, 1316-1344.	2.8	222
25	Electrostatic self-assembly of macroscopic crystals using contact electrification. Nature Materials, 2003, 2, 241-245.	13.3	221
26	Mesoscale Self-Assembly of Hexagonal Plates Using Lateral Capillary Forces:â€‰ Synthesis Using the â€œCapillary Bondâ€• Journal of the American Chemical Society, 1999, 121, 5373-5391.	6.6	212
27	Photoswitchable Catalysis Mediated by Dynamic Aggregation of Nanoparticles. Journal of the American Chemical Society, 2010, 132, 11018-11020.	6.6	208
28	How and Why Nanoparticleâ€™s Curvature Regulates the Apparent p<i>K</i>_a of the Coating Ligands. Journal of the American Chemical Society, 2011, 133, 2192-2197.	6.6	208
29	Ultrasensitive detection of toxic cations through changes in the tunnelling current across films of striped nanoparticles. Nature Materials, 2012, 11, 978-985.	13.3	206
30	Micro- and nanotechnology via reactionâ€“diffusion. Soft Matter, 2005, 1, 114.	1.2	196
31	Chromatography in a Single Metalâˆ’Organic Framework (MOF) Crystal. Journal of the American Chemical Society, 2010, 132, 16358-16361.	6.6	192
32	Applications, Properties and Synthesis of ω-Functionalized n-Alkanethiols and Disulfides - the Building Blocks of Self-Assembled Monolayers. Current Organic Chemistry, 2004, 8, 1763-1797.	0.9	177
33	Colloidal assembly directed by virtual magnetic moulds. Nature, 2013, 503, 99-103.	13.7	177
34	Contact Electrification between Identical Materials. Angewandte Chemie - International Edition, 2010, 49, 946-949.	7.2	168
35	Targeted crystallization of mixed-charge nanoparticles in lysosomes induces selective death of cancer cells. Nature Nanotechnology, 2020, 15, 331-341.	15.6	167
36	Systems of mechanized and reactive droplets powered by multi-responsive surfactants. Nature, 2018, 553, 313-318.	13.7	162

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37	Synthesis, Shape Control, and Optical Properties of Hybrid Au/Fe₃O₄ â€œNanoflowersâ€ Small, 2008, 4, 1635-1639.	5.2	160
38	Reactionâ€Diffusion Systems in Intracellular Molecular Transport and Control. Angewandte Chemie - International Edition, 2010, 49, 4170-4198.	7.2	155
39	Material Transfer and Polarity Reversal in Contact Charging. Angewandte Chemie - International Edition, 2012, 51, 4843-4847.	7.2	154
40	Control of Surface Charges by Radicals as a Principle of Antistatic Polymers Protecting Electronic Circuitry. Science, 2013, 341, 1368-1371.	6.0	148
41	Active colloids with collective mobility status and research opportunities. Chemical Society Reviews, 2017, 46, 5551-5569.	18.7	145
42	Organic Switches for Surfaces and Devices. Advanced Materials, 2013, 25, 331-348.	11.1	142
43	Nanoparticle Core/Shell Architectures within MOF Crystals Synthesized by Reaction Diffusion. Angewandte Chemie - International Edition, 2012, 51, 7435-7439.	7.2	141
44	Synthesis of Stable, Low-Dispersity Copper Nanoparticles and Nanorods and Their Antifungal and Catalytic Properties. Journal of Physical Chemistry C, 2010, 114, 15612-15616.	1.5	137
45	Storage of Electrical Information in Metalâ€“Organicâ€Framework Memristors. Angewandte Chemie - International Edition, 2014, 53, 4437-4441.	7.2	137
46	Geometric curvature controls the chemical patchiness and self-assembly of nanoparticles. Nature Nanotechnology, 2013, 8, 676-681.	15.6	136
47	Computational planning of the synthesis of complex natural products. Nature, 2020, 588, 83-88.	13.7	131
48	Biospecific Binding of Carbonic Anhydrase to Mixed SAMs Presenting Benzenesulfonamide Ligands:Â A Model System for Studying Lateral Steric Effects. Langmuir, 1999, 15, 7186-7198.	1.6	130
49	The 'wired' universe of organic chemistry. Nature Chemistry, 2009, 1, 31-36.	6.6	130
50	Fabrication using â€˜programmedâ€™ reactions. Materials Today, 2007, 10, 38-46.	8.3	122
51	Nanoparticle Oscillations and Fronts. Angewandte Chemie - International Edition, 2010, 49, 8616-8619.	7.2	120
52	Metal Nanoparticles Functionalized with Molecular and Supramolecular Switches. Journal of the American Chemical Society, 2009, 131, 4233-4235.	6.6	119
53	Architecture and Evolution of Organic Chemistry. Angewandte Chemie - International Edition, 2005, 44, 7263-7269.	7.2	115
54	Dynamic hook-and-eye nanoparticle sponges. Nature Chemistry, 2009, 1, 733-738.	6.6	114

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55	Selfâ€Assembling Films of Covalent Organic Frameworks Enable Longâ€Term, Efficient Cycling of Zincâ€Ion Batteries. Advanced Materials, 2021, 33, e2101726.	11.1	114
56	What Really Drives Chemical Reactions on Contact Charged Surfaces?. Journal of the American Chemical Society, 2012, 134, 7223-7226.	6.6	111
57	A Tool for Studying Contact Electrification in Systems Comprising Metals and Insulating Polymers. Analytical Chemistry, 2003, 75, 4859-4867.	3.2	109
58	Ionic-like Behavior of Oppositely Charged Nanoparticles. Journal of the American Chemical Society, 2006, 128, 15046-15047.	6.6	107
59	Parallel Optimization of Synthetic Pathways within the Network of Organic Chemistry. Angewandte Chemie - International Edition, 2012, 51, 7928-7932.	7.2	107
60	Effects of Surface Modification and Moisture on the Rates of Charge Transfer between Metals and Organic Materials. Journal of Physical Chemistry B, 2004, 108, 20296-20302.	1.2	104
61	Chemoelectronic circuits based on metal nanoparticles. Nature Nanotechnology, 2016, 11, 603-608.	15.6	103
62	Prediction of Major Regioâ€, Siteâ€, and Diastereoisomers in Dielsâ€"Alder Reactions by Using Machineâ€Learning: The Importance of Physically Meaningful Descriptors. Angewandte Chemie - International Edition, 2019, 58, 4515-4519.	7.2	103
63	Is Water Necessary for Contact Electrification?. Angewandte Chemie - International Edition, 2011, 50, 6766-6770.	7.2	101
64	Generation of Micrometer-Sized Patterns for Microanalytical Applications Using a Laser Direct-Write Method and Microcontact Printing. Analytical Chemistry, 1998, 70, 4645-4652.	3.2	100
65	Dynamic Self-Assembly in Ensembles of Camphor Boats. Journal of Physical Chemistry B, 2008, 112, 10848-10853.	1.2	99
66	Selfâ€Assembly of Nanotriangle Superlattices Facilitated by Repulsive Electrostatic Interactions. Angewandte Chemie - International Edition, 2010, 49, 6760-6763.	7.2	99
67	Controlled pH Stability and Adjustable Cellular Uptake of Mixed-Charge Nanoparticles. Journal of the American Chemical Society, 2013, 135, 6392-6395.	6.6	99
68	Dynamic, self-assembled aggregates of magnetized, millimeter-sized objects rotating at the liquid-air interface:â€ƒMacroscopic, two-dimensional classical artificial atoms and molecules. Physical Review E, 2001, 64, 011603.	0.8	95
69	Predicting the outcomes of organic reactions via machine learning: are current descriptors sufficient?. Scientific Reports, 2017, 7, 3582.	1.6	95
70	Electrostatic Aggregation and Formation of Coreâˆ'Shell Suprastructures in Binary Mixtures of Charged Metal Nanoparticles. Nano Letters, 2006, 6, 1896-1903.	4.5	92
71	Combinatorial computational method gives new picomolar ligands for a known enzyme. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1270-1273.	3.3	91
72	Engineering Gram Selectivity of Mixedâ€Charge Gold Nanoparticles by Tuning the Balance of Surface Charges. Angewandte Chemie - International Edition, 2016, 55, 8610-8614.	7.2	88

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73	Dynamic Aggregation of Chiral Spinners. Science, 2002, 296, 718-721.	6.0	86
74	Multicolour micropatterning of thin films of dry gels. Nature Materials, 2004, 3, 729-735.	13.3	86
75	Tunneling Electrical Connection to the Interior of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 8169-8175.	6.6	86
76	Rewiring Chemistry: Algorithmic Discovery and Experimental Validation of Oneâ€Pot Reactions in the Network of Organic Chemistry. Angewandte Chemie - International Edition, 2012, 51, 7922-7927.	7.2	85
77	The Core and Most Useful Molecules in Organic Chemistry. Angewandte Chemie - International Edition, 2006, 45, 5348-5354.	7.2	83
78	Assembly of Polygonal Nanoparticle Clusters Directed by Reversible Noncovalent Bonding Interactions. Nano Letters, 2009, 9, 3185-3190.	4.5	82
79	Modeling of Menisci and Capillary Forces from the Millimeter to the Micrometer Size Range. Journal of Physical Chemistry B, 2001, 105, 404-412.	1.2	81
80	Synthetic connectivity, emergence, and self-regeneration in the network of prebiotic chemistry. Science, 2020, 369, .	6.0	79
81	Liesegang Rings Engineered from Charged Nanoparticles. Journal of the American Chemical Society, 2010, 132, 58-60.	6.6	78
82	Mechanoradicals Created in â€œPolymeric Spongesâ€• Drive Reactions in Aqueous Media. Angewandte Chemie - International Edition, 2012, 51, 3596-3600.	7.2	78
83	Molecular dynamics imaging in micropatterned living cells. Nature Methods, 2005, 2, 739-741.	9.0	74
84	Self-assembly of polymeric microspheres of complex internal structures. Nature Materials, 2004, 4, 93-97.	13.3	73
85	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. Energy and Environmental Science, 2013, 6, 3467.	15.6	73
86	LÃ©vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	5.8	73
87	Bridging Interactions and Selective Nanoparticle Aggregation Mediated by Monovalent Cations. ACS Nano, 2011, 5, 530-536.	7.3	71
88	Enhancing crystal growth using polyelectrolyte solutions and shear flow. Nature, 2020, 579, 73-79.	13.7	70
89	Wet Stamping of Microscale Periodic Precipitation Patterns. Journal of Physical Chemistry B, 2005, 109, 2774-2778.	1.2	69
90	The Chemopreventive Bioflavonoid Apigenin Inhibits Prostate Cancer Cell Motility through the Focal Adhesion Kinase/Src Signaling Mechanism. Cancer Prevention Research, 2009, 2, 830-841.	0.7	69

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91	Tactic, reactive, and functional droplets outside of equilibrium. Chemical Society Reviews, 2016, 45, 4766-4796.	18.7	69
92	Imprinting Chemical and Responsive Micropatterns into Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2011, 50, 276-279.	7.2	68
93	Slit Tubes for Semisoft Pneumatic Actuators. Advanced Materials, 2018, 30, 1704446.	11.1	68
94	Controlling the Growth of â€œIonicâ€•Nanoparticle Supracrystals. Nano Letters, 2007, 7, 1018-1021.	4.5	66
95	Dynamics of self assembly of magnetized disks rotating at the liquid-air interface. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4147-4151.	3.3	65
96	A Metalâ€“Organic Framework Stabilizes an Occluded Photocatalyst. Chemistry - A European Journal, 2013, 19, 11194-11198.	1.7	65
97	Machine Learning May Sometimes Simply Capture Literature Popularity Trends: A Case Study of Heterocyclic Suzukiâ€“Miyaura Coupling. Journal of the American Chemical Society, 2022, 144, 4819-4827.	6.6	64
98	Organic Chemistry as a Language and the Implications of Chemical Linguistics for Structural and Retrosynthetic Analyses. Angewandte Chemie - International Edition, 2014, 53, 8108-8112.	7.2	63
99	Studying the Thermodynamics of Surface Reactions on Nanoparticles by Electrostatic Titrations. Journal of the American Chemical Society, 2007, 129, 6664-6665.	6.6	62
100	Vesicle-to-Micelle Oscillations and Spatial Patterns. Langmuir, 2010, 26, 13770-13772.	1.6	62
101	Synergy Between Expert and Machineâ€Learning Approaches Allows for Improved Retrosynthetic Planning. Angewandte Chemie - International Edition, 2020, 59, 725-730.	7.2	62
102	Molecular-Mechanical Switching at the Nanoparticleâˆ’Solvent Interface: Practice and Theory. Journal of the American Chemical Society, 2010, 132, 4310-4320.	6.6	61
103	Rapid and Accurate Prediction of p<i>K</i>_a Values of Câ€“H Acids Using Graph Convolutional Neural Networks. Journal of the American Chemical Society, 2019, 141, 17142-17149.	6.6	61
104	â€œNanoionsâ€• Fundamental Properties and Analytical Applications of Charged Nanoparticles. ChemPhysChem, 2007, 8, 2171-2176.	1.0	59
105	Responsive and Nonequilibrium Nanomaterials. Journal of Physical Chemistry Letters, 2012, 3, 2103-2111.	2.1	59
106	Charged nanoparticles as supramolecular surfactants for controlling the growth and stabilityÂofÂmicrocrystals. Nature Materials, 2012, 11, 227-232.	13.3	59
107	Plasmoelectronics: Coupling Plasmonic Excitation with Electron Flow. Langmuir, 2012, 28, 9093-9102.	1.6	58
108	Making Use of Bond Strength and Steric Hindrance in Nanoscale â€œSynthesisâ€• Angewandte Chemie - International Edition, 2009, 48, 9477-9480.	7.2	57

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109	Automatic mapping of atoms across both simple and complex chemical reactions. Nature Communications, 2019, 10, 1434.	5.8	57
110	Swarming in Shallow Waters. Journal of Physical Chemistry Letters, 2011, 2, 770-774.	2.1	56
111	Enhanced photocatalytic activity of hybrid Fe2O3â€"Pd nanoparticulate catalysts. Chemical Science, 2012, 3, 1090.	3.7	55
112	From Knowledge-Based Potentials to Combinatorial Lead Design in Silico. Accounts of Chemical Research, 2002, 35, 261-269.	7.6	53
113	Chematica: A Story of Computer Code That Started to Think like a Chemist. CheM, 2018, 4, 390-398.	5.8	53
114	Electrostatically â€œPatchyâ€• Coatings via Cooperative Adsorption of Charged Nanoparticles. Journal of the American Chemical Society, 2007, 129, 15623-15630.	6.6	51
115	Supercapacitors Based on Metal Electrodes Prepared from Nanoparticle Mixtures at Room Temperature. Journal of Physical Chemistry Letters, 2010, 1, 1428-1431.	2.1	51
116	Reactive Surface Micropatterning by Wet Stamping. Langmuir, 2005, 21, 2637-2640.	1.6	49
117	Selfâ€Division of Macroscopic Droplets: Partitioning of Nanosized Cargo into Nanoscale Micelles. Angewandte Chemie - International Edition, 2010, 49, 6756-6759.	7.2	49
118	Precision Assembly of Oppositely and Like-Charged Nanoobjects Mediated by Charge-Induced Dipole Interactions. Nano Letters, 2010, 10, 2275-2280.	4.5	49
119	Dynamic internal gradients control and direct electric currents within nanostructured materials. Nature Nanotechnology, 2011, 6, 740-746.	15.6	48
120	Dynamic self-assembly of photo-switchable nanoparticles. Soft Matter, 2012, 8, 227-234.	1.2	48
121	Dynamic Self-Assembly of Rings of Charged Metallic Spheres. Physical Review Letters, 2003, 90, 083903.	2.9	47
122	Bulk Synthesis and Surface Patterning of Nanoporous Metals and Alloys from Supraspherical Nanoparticle Aggregates. Advanced Functional Materials, 2008, 18, 2763-2769.	7.8	46
123	Antibacterial Nanoparticle Monolayers Prepared on Chemically Inert Surfaces by Cooperative Electrostatic Adsorption (CELA). ACS Applied Materials & Interfaces, 2010, 2, 1206-1210.	4.0	46
124	Controlling the Properties of Self-Assembled Monolayers by Substrate Curvatureâ€. Langmuir, 2011, 27, 1246-1250.	1.6	46
125	Kinetics of Contact Electrification between Metals and Polymers. Journal of Physical Chemistry B, 2005, 109, 20511-20515.	1.2	45
126	Nano- and Microscopic Surface Wrinkles of Linearly Increasing Heights Prepared by Periodic Precipitation. Journal of the American Chemical Society, 2005, 127, 17803-17807.	6.6	44

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127	Synthesis of Heterodimeric Sphereâ€"Prism Nanostructures via Metastable Gold Supraspheres. Angewandte Chemie - International Edition, 2007, 46, 8363-8367.	7.2	44
128	Complexity and dynamic self-assembly. Chemical Engineering Science, 2004, 59, 1667-1676.	1.9	43
129	One-Step Multilevel Microfabrication by Reactionâ^'Diffusion. Langmuir, 2005, 21, 418-423.	1.6	43
130	Largeâ€Area, Freestanding MOF Films of Planar, Curvilinear, or Micropatterned Topographies. Angewandte Chemie - International Edition, 2017, 56, 127-132.	7.2	43
131	Thermally actuated interferometric sensors based on the thermal expansion of transparent elastomeric media. Review of Scientific Instruments, 1999, 70, 2031-2037.	0.6	42
132	Self-assembling fluidic machines. Applied Physics Letters, 2004, 84, 1798-1800.	1.5	42
133	Selection of cost-effective yet chemically diverse pathways from the networks of computer-generated retrosynthetic plans. Chemical Science, 2019, 10, 4640-4651.	3.7	41
134	Development of a Knowledge-Based Potential for Crystals of Small Organic Molecules:Â Calculation of Energy Surfaces for C=0Â·Â·Â·Hâ^'N Hydrogen Bonds. Journal of Physical Chemistry B, 2000, 104, 7293-7298.	1.2	39
135	Mechanochemical Activation and Patterning of an Adhesive Surface toward Nanoparticle Deposition. Journal of the American Chemical Society, 2015, 137, 1726-1729.	6.6	39
136	Navigating around Patented Routes by Preserving Specific Motifs along Computer-Planned Retrosynthetic Pathways. CheM, 2019, 5, 460-473.	5.8	39
137	Absorption of Water by Thin, Ionic Films of Gelatin. Langmuir, 2004, 20, 3513-3516.	1.6	38
138	Nanoparticle Supracrystals and Layered Supracrystals as Chemical Amplifiers. Angewandte Chemie - International Edition, 2010, 49, 5737-5741.	7.2	38
139	Bistability and Hysteresis During Aggregation of Charged Nanoparticles. Journal of Physical Chemistry Letters, 2010, 1, 1459-1462.	2.1	38
140	Transport into Metalâ€"Organic Frameworks from Solution Is Not Purely Diffusive. Angewandte Chemie - International Edition, 2012, 51, 2662-2666.	7.2	38
141	Self-Assembly of Gears at a Fluid/Air Interface. Journal of the American Chemical Society, 2003, 125, 7948-7958.	6.6	36
142	Cutting into Solids with Micropatterned Gels. Advanced Materials, 2005, 17, 1361-1365.	11.1	36
143	Vortex flows impart chirality-specific lift forces. Nature Communications, 2015, 6, 5640.	5.8	36
144	Tweezing of Magnetic and Nonâ€Magnetic Objects with Magnetic Fields. Advanced Materials, 2017, 29, 1603516.	11.1	36

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145	Elastomeric optical elements with deformable surface topographies: applications to force measurements, tunable light transmission and light focusing. Sensors and Actuators A: Physical, 2000, 86, 81-85.	2.0	35
146	Cell motility on micropatterned treadmills and tracks. Soft Matter, 2007, 3, 672.	1.2	35
147	Modeling of Electrodynamic Interactions between Metal Nanoparticles Aggregated by Electrostatic Interactions into Closely-Packed Clusters. Journal of Physical Chemistry C, 2007, 111, 11816-11822.	1.5	35
148	ComputergestÃ¼tzte Syntheseplanung: Das Ende vom Anfang. Angewandte Chemie, 2016, 128, 6004-6040.	1.6	35
149	Mechanism of the Cooperative Adsorption of Oppositely Charged Nanoparticles. Journal of Physical Chemistry A, 2009, 113, 3799-3803.	1.1	34
150	Tunable Photoluminescence across the Visible Spectrum and Photocatalytic Activity of Mixed-Valence Rhenium Oxide Nanoparticles. Journal of the American Chemical Society, 2017, 139, 15088-15093.	6.6	33
151	Algorithmic Discovery of Tactical Combinations for Advanced Organic Syntheses. CheM, 2020, 6, 280-293.	5.8	32
152	Color Micro- and Nanopatterning with Counter-Propagating Reaction-Diffusion Fronts. Advanced Materials, 2004, 16, 1912-1917.	11.1	31
153	Minimal-uncertainty prediction of general drug-likeness based on Bayesian neural networks. Nature Machine Intelligence, 2020, 2, 457-465.	8.3	31
154	Microâ€•and Nanoprinting into Solids Using Reactionâ€Diffusion Etching and Hydrogel Stamps. Small, 2009, 5, 22-27.	5.2	30
155	Gene therapy vectors with enhanced transfection based on hydrogels modified with affinity peptides. Biomaterials, 2011, 32, 5092-5099.	5.7	30
156	The logic of translating chemical knowledge into machine-processable forms: a modern playground for physical-organic chemistry. Reaction Chemistry and Engineering, 2019, 4, 1506-1521.	1.9	30
157	Oscillating droplet trains in microfluidic networks and their suppression in blood flow. Nature Physics, 2019, 15, 706-713.	6.5	30
158	Computer-designed repurposing of chemical wastes into drugs. Nature, 2022, 604, 668-676.	13.7	30
159	Three-Dimensional Dynamic Self-Assembly of Spinning Magnetic Disks:â€‰ Vortex Crystals. Journal of Physical Chemistry B, 2002, 106, 1188-1194.	1.2	29
160	Theoretical basis for the stabilization of charges by radicals on electrified polymers. Chemical Science, 2017, 8, 2025-2032.	3.7	29
161	Precipitation of Oppositely Charged Nanoparticles by Dilution and/or Temperature Increase. Journal of Physical Chemistry B, 2009, 113, 1413-1417.	1.2	28
162	Chemical Network Algorithms for the Risk Assessment and Management of Chemical Threats. Angewandte Chemie - International Edition, 2012, 51, 7933-7937.	7.2	28

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163	Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16339-16343.	3.3	28
164	Magnetofluidic Tweezing of Nonmagnetic Colloids. Advanced Materials, 2016, 28, 3453-3459.	11.1	28
165	Electrostatic Titrations Reveal Surface Compositions of Mixed, On-Nanoparticle Monolayers Comprising Positively and Negatively Charged Ligands. Journal of Physical Chemistry C, 2016, 120, 4139-4144.	1.5	28
166	Self-assembly of like-charged nanoparticles into microscopic crystals. Nanoscale, 2016, 8, 157-161.	2.8	28
167	Metalâ€"Organic Framework â€œSwimmersâ€•with Energy-Efficient Autonomous Motility. ACS Nano, 2017, 11, 10914-10923.	7.3	28
168	Shaping Microcrystals of Metalâ€"Organic Frameworks by Reactionâ€"Diffusion. Angewandte Chemie - International Edition, 2020, 59, 10301-10305.	7.2	28
169	Estimating chemical reactivity and cross-influence from collective chemical knowledge. Chemical Science, 2012, 3, 1497.	3.7	26
170	Chemist Ex Machina: Advanced Synthesis Planning by Computers. Accounts of Chemical Research, 2021, 54, 1094-1106.	7.6	26
171	Transistors and logic circuits based on metal nanoparticles and ionic gradients. Nature Electronics, 2021, 4, 109-115.	13.1	25
172	Liftâ€Off and Micropatterning of Monoâ€•and Multilayer Nanoparticle Films. Small, 2009, 5, 1970-1973.	5.2	24
173	The dependence between forces and dissipation rates mediating dynamic self-assembly. Soft Matter, 2009, 5, 1279.	1.2	24
174	Sequential Reactions Directed by Core/Shell Catalytic Reactors. Small, 2010, 6, 857-863.	5.2	24
175	Independence of Primary and Secondary Structures in Periodic Precipitation Patterns. Journal of Physical Chemistry Letters, 2011, 2, 345-349.	2.1	24
176	Nanostructured Rheniumâ€"Carbon Composites as Hydrogen-Evolving Catalysts Effective over the Entire pH Range. ACS Applied Nano Materials, 2019, 2, 2725-2733.	2.4	24
177	Directed dynamic self-assembly of objects rotating on two parallel fluid interfaces. Journal of Chemical Physics, 2002, 116, 8571.	1.2	23
178	Nanoparticles That â€œRememberâ€•Temperature. Small, 2010, 6, 1385-1387.	5.2	23
179	The unstable and expanding interface between reacting liquids: theoretical interpretation of negative surface tension. Soft Matter, 2012, 8, 1601-1608.	1.2	23
180	Fabrication of Topologically Complex Three-Dimensional Microstructures:Â Metallic Microknots. Journal of the American Chemical Society, 2000, 122, 12691-12699.	6.6	22

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181	Maskless Microetching of Transparent Conductive Oxides (ITO and ZnO) and Semiconductors (GaAs) Based on Reaction-Diffusion. Chemistry of Materials, 2006, 18, 4722-4723.	3.2	22
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