Bartosz A Grzybowski

List of Publications by Year
in descending order

299 papers	29,531 citations	6613 / 79 h-index	5539 / 163 g-index
329 all docs	329 docs citations	329 times ranked	30091 citing authors

#	Article	IF	Citations
1	Network search algorithms and scoring functions for advancedâ€level computerized synthesis planning. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2023, 13, .	14.6	6
2	Materials, assemblies and reaction systems under rotation. Nature Reviews Materials, 2022, 7, 338-354.	48.7	13
3	Large-Scale, Wavelet-Based Analysis of Lysosomal Trajectories and Co-Movements of Lysosomes with Nanoparticle Cargos. Cells, 2022, 11, 270.	4.1	4
4	A computer algorithm to discover iterative sequences of organic reactions. , 2022, 1, 49-58.		14
5	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.	13.7	64
6	Computer-designed repurposing of chemical wastes into drugs. Nature, 2022, 604, 668-676.	27.8	30
7	Proving Cooperativity of a Catalytic Reaction by Means of Nanoscale Geometry: The Case of Click Reaction. Journal of the American Chemical Society, 2022, 144, 11238-11245.	13.7	1
8	On-Nanoparticle Gating Units Render an Ordinary Catalyst Substrate- and Site-Selective. Journal of the American Chemical Society, 2021, 143, 1807-1815.	13.7	13
9	Chemist Ex Machina: Advanced Synthesis Planning by Computers. Accounts of Chemical Research, 2021, 54, 1094-1106.	15.6	26
10	Stimuli-responsive granular crystals assembled by dipolar and multipolar interactions. Soft Matter, 2021, 17, 8595-8604.	2.7	3
11	SYNTHESIS PLANNING, REACTION DISCOVERY, AND DESIGN OF CHEMICAL SYSTEMS USING COMPUTERS. , 2021, , .		0
12	Transistors and logic circuits based on metal nanoparticles and ionic gradients. Nature Electronics, 2021, 4, 109-115.	26.0	25
13	Scaffoldâ€Directed Face Selectivity Machineâ€Learned from Vectors of Nonâ€covalent Interactions. Angewandte Chemie, 2021, 133, 15358-15363.	2.0	7
14	Mixed-Charge Nanocarriers Allow for Selective Targeting of Mitochondria by Otherwise Nonselective Dyes. ACS Nano, 2021, 15, 11470-11490.	14.6	7
15	Scaffoldâ€Directed Face Selectivity Machineâ€Learned from Vectors of Nonâ€covalent Interactions. Angewandte Chemie - International Edition, 2021, 60, 15230-15235.	13.8	19
16	Selfâ€Assembling Films of Covalent Organic Frameworks Enable Longâ€Term, Efficient Cycling of Zincâ€Ion Batteries. Advanced Materials, 2021, 33, e2101726.	21.0	114
17	Is Organic Chemistry Really Growing Exponentially?. Angewandte Chemie, 2021, 133, 26430-26436.	2.0	4
18	Is Organic Chemistry Really Growing Exponentially?. Angewandte Chemie - International Edition, 2021, 60, 26226-26232.	13.8	8

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19	An Electrocatalytic Reaction As a Basis for Chemical Computing in Water Droplets. Journal of the American Chemical Society, 2021, 143, 16908-16912.	13.7	9
20	Additive Contact Polarization of Nonferroelectric Polymers for Patterning of Multilevel Memory Elements. ACS Applied Materials & Interfaces, 2020, 12, 1504-1510.	8.0	2
21	Algorithmic Discovery of Tactical Combinations for Advanced Organic Syntheses. CheM, 2020, 6, 280-293.	11.7	32
22	Synergy Between Expert and Machineâ€Learning Approaches Allows for Improved Retrosynthetic Planning. Angewandte Chemie - International Edition, 2020, 59, 725-730.	13.8	62
23	Synergy Between Expert and Machineâ€Learning Approaches Allows for Improved Retrosynthetic Planning. Angewandte Chemie, 2020, 132, 735-740.	2.0	9
24	Concentric liquid reactors for chemical synthesis and separation. Nature, 2020, 586, 57-63.	27.8	19
25	Computational planning of the synthesis of complex natural products. Nature, 2020, 588, 83-88.	27.8	131
26	Synthetic connectivity, emergence, and self-regeneration in the network of prebiotic chemistry. Science, 2020, 369, .	12.6	79
27	Minimal-uncertainty prediction of general drug-likeness based on Bayesian neural networks. Nature Machine Intelligence, 2020, 2, 457-465.	16.0	31
28	Mixed-Charge, pH-Responsive Nanoparticles for Selective Interactions with Cells, Organelles, and Bacteria. Accounts of Materials Research, 2020, 1, 188-200.	11.7	14
29	Computer-generated â€œsynthetic contingencyâ€• plans at times of logistics and supply problems: scenarios for hydroxychloroquine and remdesivir. Chemical Science, 2020, 11, 6736-6744.	7.4	13
30	Targeted crystallization of mixed-charge nanoparticles in lysosomes induces selective death of cancer cells. Nature Nanotechnology, 2020, 15, 331-341.	31.5	167
31	Enhancing crystal growth using polyelectrolyte solutions and shear flow. Nature, 2020, 579, 73-79.	27.8	70
32	Shaping Microcrystals of Metalâ€"Organic Frameworks by Reactionâ€"Diffusion. Angewandte Chemie - International Edition, 2020, 59, 10301-10305.	13.8	28
33	Shaping Microcrystals of Metalâ€"Organic Frameworks by Reactionâ€"Diffusion. Angewandte Chemie, 2020, 132, 10387-10391.	2.0	4
34	Engines of discovery: Computers in advanced synthesis planning and identification of drug candidates. , 2020, , .		0
35	Computational design of syntheses leading to compound libraries or isotopically labelled targets. Chemical Science, 2019, 10, 9219-9232.	7.4	16
36	Dynamic Assembly of Small Parts in Vortexâ€"Vortex Traps Established within a Rotating Fluid. Advanced Materials, 2019, 31, e1902298.	21.0	1

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37	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.	13.7	61
38	Efficient and Long-Lasting Current Rectification by Laminated Yet Separated, Oppositely Charged Monolayers. ACS Applied Electronic Materials, 2019, 1, 2295-2300.	4.3	9
39	Stretchable and Reactive Membranes of Metalâ€“Organic Framework Nanosurfactants on Liquid Droplets Enable Dynamic Control of Selfâ€Propulsion, Cargo Pickâ€Up, and Dropâ€Off. Advanced Intelligent Systems, 2019, 1, 1900065.	6.1	5
40	Charged Metal Nanoparticles for Chemoelectronic Circuits. Advanced Materials, 2019, 31, e1804864.	21.0	14
41	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.	3.7	30
42	Oscillating droplet trains in microfluidic networks and their suppression in blood flow. Nature Physics, 2019, 15, 706-713.	16.7	30
43	Selection of cost-effective yet chemically diverse pathways from the networks of computer-generated retrosynthetic plans. Chemical Science, 2019, 10, 4640-4651.	7.4	41
44	Immature dendritic cells navigate microscopic mazes to find tumor cells. Lab on A Chip, 2019, 19, 1665-1675.	6.0	14
45	Automatic mapping of atoms across both simple and complex chemical reactions. Nature Communications, 2019, 10, 1434.	12.8	57
46	Nanostructured Rheniumâ€“Carbon Composites as Hydrogen-Evolving Catalysts Effective over the Entire pH Range. ACS Applied Nano Materials, 2019, 2, 2725-2733.	5.0	24
47	Uniform and directional growth of centimeter-sized single crystals of cyclodextrin-based metal organic frameworks. CrystEngComm, 2019, 21, 1867-1871.	2.6	11
48	Stretchable and Reactive Membranes of Metalâ€“Organic Framework Nanosurfactants on Liquid Droplets Enable Dynamic Control of Selfâ€Propulsion, Cargo Pickâ€Up, and Dropâ€Off. Advanced Intelligent Systems, 2019, 1, 1970071.	6.1	1
49	Propagation of Oscillating Chemical Signals through Reaction Networks. Angewandte Chemie, 2019, 131, 4568-4573.	2.0	2
50	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.	13.8	103
51	Propagation of Oscillating Chemical Signals through Reaction Networks. Angewandte Chemie - International Edition, 2019, 58, 4520-4525.	13.8	5
52	Prediction of Major Regioâ€, Siteâ€, and Diastereoisomers in Dielsâ€“Alder Reactions by Using Machineâ€Learning: The Importance of Physically Meaningful Descriptors. Angewandte Chemie, 2019, 131, 4563-4567.	2.0	14
53	Navigating around Patented Routes by Preserving Specific Motifs along Computer-Planned Retrosynthetic Pathways. CheM, 2019, 5, 460-473.	11.7	39
54	Efficient Syntheses of Diverse, Medicinally Relevant Targets Planned by Computer and Executed in the Laboratory. CheM, 2018, 4, 522-532.	11.7	227

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55	Discovery and Enumeration of Organicâ€Chemical and Biomimetic Reaction Cycles within the Network of Chemistry. Angewandte Chemie - International Edition, 2018, 57, 2367-2371.	13.8	15
56	Slit Tubes for Semisoft Pneumatic Actuators. Advanced Materials, 2018, 30, 1704446.	21.0	68
57	Systems of mechanized and reactive droplets powered by multi-responsive surfactants. Nature, 2018, 553, 313-318.	27.8	162
58	Chematica: A Story of Computer Code That Started to Think like a Chemist. CheM, 2018, 4, 390-398.	11.7	53
59	Artificial Heliotropism and Nyctinasty Based on Optomechanical Feedback and No Electronics. Soft Robotics, 2018, 5, 93-98.	8.0	13
60	LÃ©vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	12.8	73
61	Switchable counterion gradients around charged metallic nanoparticles enable reception of radio waves. Science Advances, 2018, 4, eaau3546.	10.3	16
62	The Influence of Distant Substrates on the Outcome of Contact Electrification. Angewandte Chemie, 2018, 130, 15605-15609.	2.0	4
63	The Influence of Distant Substrates on the Outcome of Contact Electrification. Angewandte Chemie - International Edition, 2018, 57, 15379-15383.	13.8	13
64	Linguistic measures of chemical diversity and the â€œkeywordsâ€• of molecular collections. Scientific Reports, 2018, 8, 7598.	3.3	18
65	Control and Switching of Charge-Selective Catalysis on Nanoparticles by Counterions. ACS Catalysis, 2018, 8, 7469-7474.	11.2	20
66	Discovery and Enumeration of Organicâ€Chemical and Biomimetic Reaction Cycles within the Network of Chemistry. Angewandte Chemie, 2018, 130, 2391-2395.	2.0	3
67	Programmed communication. Nature Nanotechnology, 2017, 12, 291-292.	31.5	0
68	Tweezing of Magnetic and Nonâ€Magnetic Objects with Magnetic Fields. Advanced Materials, 2017, 29, 1603516.	21.0	36
69	Largeâ€Area, Freestanding MOF Films of Planar, Curvilinear, or Micropatterned Topographies. Angewandte Chemie, 2017, 129, 133-138.	2.0	8
70	Largeâ€Area, Freestanding MOF Films of Planar, Curvilinear, or Micropatterned Topographies. Angewandte Chemie - International Edition, 2017, 56, 127-132.	13.8	43
71	Dynamic Selfâ€Assembly of Magnetic/Polymer Composites in Rotating Frames of Reference. Advanced Materials, 2017, 29, 1700614.	21.0	14
72	Predicting the outcomes of organic reactions via machine learning: are current descriptors sufficient?. Scientific Reports, 2017, 7, 3582.	3.3	95

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73	Metalâ€"Organic Framework â€œSwimmersâ€•with Energy-Efficient Autonomous Motility. ACS Nano, 2017, 11, 10914-10923.	14.6	28
74	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.	13.7	33
75	Active colloids with collective mobility status and research opportunities. Chemical Society Reviews, 2017, 46, 5551-5569.	38.1	145
76	Interference-like patterns of static magnetic fields imprinted into polymer/nanoparticle composites. Nature Communications, 2017, 8, 1564.	12.8	18
77	Heterogeneous Catalysis â€œOn Demandâ€• Mechanically Controlled Catalytic Activity of a Metal Surface. ACS Applied Materials & Interfaces, 2017, 9, 44264-44269.	8.0	4
78	Nonâ€Equilibrium Selfâ€Assembly of Monocomponent and Multicomponent Tubular Structures in Rotating Fluids. Advanced Materials, 2017, 29, 1704274.	21.0	22
79	From dynamic self-assembly to networked chemical systems. Chemical Society Reviews, 2017, 46, 5647-5678.	38.1	241
80	Janus Particle Synthesis, Assembly, and Application. Langmuir, 2017, 33, 6964-6977.	3.5	251
81	Trapping, manipulation, and crystallization of live cells using magnetofluidic tweezers. Nanoscale Horizons, 2017, 2, 50-54.	8.0	12
82	Theoretical basis for the stabilization of charges by radicals on electrified polymers. Chemical Science, 2017, 8, 2025-2032.	7.4	29
83	Engineering Gram Selectivity of Mixedâ€Charge Gold Nanoparticles by Tuning the Balance of Surface Charges. Angewandte Chemie - International Edition, 2016, 55, 8610-8614.	13.8	88
84	Engineering Gram Selectivity of Mixedâ€Charge Gold Nanoparticles by Tuning the Balance of Surface Charges. Angewandte Chemie, 2016, 128, 8752-8756.	2.0	17
85	The nanotechnology of life-inspired systems. Nature Nanotechnology, 2016, 11, 585-592.	31.5	348
86	Tactic, reactive, and functional droplets outside of equilibrium. Chemical Society Reviews, 2016, 45, 4766-4796.	38.1	69
87	Magnetofluidic Tweezing of Nonmagnetic Colloids. Advanced Materials, 2016, 28, 3453-3459.	21.0	28
88	ComputergestÃ¼tzte Syntheseplanung: Das Ende vom Anfang. Angewandte Chemie, 2016, 128, 6004-6040.	2.0	35
89	Computerâ€Assisted Synthetic Planning: The End of the Beginning. Angewandte Chemie - International Edition, 2016, 55, 5904-5937.	13.8	395
90	Chemoelectronic circuits based on metal nanoparticles. Nature Nanotechnology, 2016, 11, 603-608.	31.5	103

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91	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.	3.1	28
92	Self-assembly of like-charged nanoparticles into microscopic crystals. Nanoscale, 2016, 8, 157-161.	5.6	28
93	A Priori Estimation of Organic Reaction Yields. Angewandte Chemie - International Edition, 2015, 54, 10797-10801.	13.8	17
94	pH Oscillator Stretched in Space but Frozen in Time. Journal of Physical Chemistry Letters, 2015, 6, 760-766.	4.6	7
95	Mechanochemical Activation and Patterning of an Adhesive Surface toward Nanoparticle Deposition. Journal of the American Chemical Society, 2015, 137, 1726-1729.	13.7	39
96	Vortex flows impart chirality-specific lift forces. Nature Communications, 2015, 6, 5640.	12.8	36
97	Tunneling Electrical Connection to the Interior of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 8169-8175.	13.7	86
98	Systems chemistry: a web themed issue. Chemical Communications, 2014, 50, 14924-14925.	4.1	22
99	Microfabrication Tools: Microfabricated Systems and Assays for Studying the Cytoskeletal Organization, Micromechanics, and Motility Patterns of Cancerous Cells (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.7	1
100	Universal Area Distributions in the Monolayers of Confluent Mammalian Cells. Physical Review Letters, 2014, 112, 138104.	7.8	13
101	Mechanical Control of Surface Adsorption by Nanoscale Cracking. Advanced Materials, 2014, 26, 3667-3672.	21.0	5
102	Storage of Electrical Information in Metalâ€“Organicâ€Framework Memristors. Angewandte Chemie - International Edition, 2014, 53, 4437-4441.	13.8	137
103	Label-Free in Situ Optical Monitoring of the Adsorption of Oppositely Charged Metal Nanoparticles. Langmuir, 2014, 30, 13478-13482.	3.5	13
104	Charged nanoparticles crystallizing and controlling crystallization: from coatings to nanoparticle surfactants to chemical amplifiers. CrystEngComm, 2014, 16, 9368-9380.	2.6	7
105	Temperature driven assembly of like-charged nanoparticles at non-planar liquidâ€“liquid or gelâ€“air interfaces. Nanoscale, 2014, 6, 4475.	5.6	3
106	Microfabricated Systems and Assays for Studying the Cytoskeletal Organization, Micromechanics, and Motility Patterns of Cancerous Cells. Advanced Materials Interfaces, 2014, 1, 1400158.	3.7	6
107	Organic Chemistry as a Language and the Implications of Chemical Linguistics for Structural and Retrosynthetic Analyses. Angewandte Chemie - International Edition, 2014, 53, 8108-8112.	13.8	63
108	Synthesis of Toroidal Gold Nanoparticles Assisted by Soft Templates. Langmuir, 2014, 30, 9886-9890.	3.5	19

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109	A long-lasting concentration cell based on a magnetic electrolyte. Nature Nanotechnology, 2014, 9, 901-906.	31.5	21
110	A Metalâ€“Organic Framework Stabilizes an Occluded Photocatalyst. Chemistry - A European Journal, 2013, 19, 11194-11198.	3.3	65
111	Nanostructural Anisotropy Underlies Anisotropic Electrical Bistability. Advanced Materials, 2013, 25, 1623-1628.	21.0	8
112	Geometric curvature controls the chemical patchiness and self-assembly of nanoparticles. Nature Nanotechnology, 2013, 8, 676-681.	31.5	136
113	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. Energy and Environmental Science, 2013, 6, 3467.	30.8	73
114	Colloidal assembly directed by virtual magnetic moulds. Nature, 2013, 503, 99-103.	27.8	177
115	Microphase separation as the cause of structural complexity in 2D liquids. Soft Matter, 2013, 9, 10042.	2.7	6
116	The Rate of Energy Dissipation Determines Probabilities of Nonâ€equilibrium Assemblies. Angewandte Chemie - International Edition, 2013, 52, 10304-10308.	13.8	22
117	Motility efficiency and spatiotemporal synchronization in non-metastatic<i>vs.</i>metastatic breast cancer cells. Integrative Biology (United Kingdom), 2013, 5, 1464-1473.	1.3	13
118	Why Cells are Microscopic: A Transport-Time Perspective. Journal of Physical Chemistry Letters, 2013, 4, 861-865.	4.6	21
119	Controlled pH Stability and Adjustable Cellular Uptake of Mixed-Charge Nanoparticles. Journal of the American Chemical Society, 2013, 135, 6392-6395.	13.7	99
120	When and Why Like-Sized, Oppositely Charged Particles Assemble into Diamond-like Crystals. Journal of Physical Chemistry Letters, 2013, 4, 1507-1511.	4.6	19
121	Organic Switches for Surfaces and Devices. Advanced Materials, 2013, 25, 331-348.	21.0	142
122	Control of Surface Charges by Radicals as a Principle of Antistatic Polymers Protecting Electronic Circuitry. Science, 2013, 341, 1368-1371.	12.6	148
123	The Rate of Energy Dissipation Determines Probabilities of Nonâ€equilibrium Assemblies. Angewandte Chemie, 2013, 125, 10494-10498.	2.0	7
124	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.	7.1	28
125	A Cost-Effective, Column-Free Route to Ethylene Glycol Oligomers EG6, EG10, and EG12. Synthesis, 2012, 44, 717-722.	2.3	6
126	Estimating chemical reactivity and cross-influence from collective chemical knowledge. Chemical Science, 2012, 3, 1497.	7.4	26

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127	Inorganic salts direct the assembly of charged nanoparticles into composite nanoscopic spheres, plates, or needles. Faraday Discussions, 2012, 159, 201.	3.2	6
128	Modular Synthesis of Bipyridinium Oligomers and Corresponding Donorâ€“Acceptor Oligorotaxanes with Crown Ethers. Organic Letters, 2012, 14, 5066-5069.	4.6	21
129	Ultrasensitive detection of toxic cations through changes in the tunnelling current across films of striped nanoparticles. Nature Materials, 2012, 11, 978-985.	27.5	206
130	Tomography and Staticâ€Mechanical Properties of Adherent Cells. Advanced Materials, 2012, 24, 5719-5726.	21.0	9
131	The unstable and expanding interface between reacting liquids: theoretical interpretation of negative surface tension. Soft Matter, 2012, 8, 1601-1608.	2.7	23
132	Micropatterning: Tomography and Staticâ€Mechanical Properties of Adherent Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	21.0	0
133	What Really Drives Chemical Reactions on Contact Charged Surfaces?. Journal of the American Chemical Society, 2012, 134, 7223-7226.	13.7	111
134	Heterogeneous Structure, Heterogeneous Dynamics, and Complex Behavior in Two-Dimensional Liquids. Journal of Physical Chemistry Letters, 2012, 3, 2431-2435.	4.6	18
135	Microtubule guidance tested through controlled cell geometry. Journal of Cell Science, 2012, 125, 5790-5799.	2.0	21
136	Plasmoelectronics: Coupling Plasmonic Excitation with Electron Flow. Langmuir, 2012, 28, 9093-9102.	3.5	58
137	Enhanced photocatalytic activity of hybrid Fe2O3â€“Pd nanoparticulate catalysts. Chemical Science, 2012, 3, 1090.	7.4	55
138	Responsive and Nonequilibrium Nanomaterials. Journal of Physical Chemistry Letters, 2012, 3, 2103-2111.	4.6	59
139	Dynamic self-assembly of photo-switchable nanoparticles. Soft Matter, 2012, 8, 227-234.	2.7	48
140	Charged nanoparticles as supramolecular surfactants for controlling the growth and stabilityÂofÂmicrocrystals. Nature Materials, 2012, 11, 227-232.	27.5	59
141	Nanocomposites: Controlling Reversible Dielectric Breakdown in Metal/Polymer Nanocomposites (Adv. Mater. 14/2012). Advanced Materials, 2012, 24, 1912-1912.	21.0	0
142	Mechanoradicals Created in â€œPolymeric Spongesâ€•Drive Reactions in Aqueous Media. Angewandte Chemie - International Edition, 2012, 51, 3596-3600.	13.8	78
143	Transport into Metalâ€“Organic Frameworks from Solution Is Not Purely Diffusive. Angewandte Chemie - International Edition, 2012, 51, 2662-2666.	13.8	38
144	Material Transfer and Polarity Reversal in Contact Charging. Angewandte Chemie - International Edition, 2012, 51, 4843-4847.	13.8	154

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145	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.	13.8	85
146	Parallel Optimization of Synthetic Pathways within the Network of Organic Chemistry. Angewandte Chemie - International Edition, 2012, 51, 7928-7932.	13.8	107
147	Chemical Network Algorithms for the Risk Assessment and Management of Chemical Threats. Angewandte Chemie - International Edition, 2012, 51, 7933-7937.	13.8	28
148	Back Cover: Material Transfer and Polarity Reversal in Contact Charging (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	13.8	0
149	Nanoparticle Core/Shell Architectures within MOF Crystals Synthesized by Reaction Diffusion. Angewandte Chemie - International Edition, 2012, 51, 7435-7439.	13.8	141
150	Molecular Tethering or Aggregation: Is the Existence of Chargeâ€Transfer Bands Indicative of the Formation of Blueâ€Box/Tetrathiafulvalene Inclusion Complexes?. Chemistry - A European Journal, 2012, 18, 5606-5611.	3.3	14
151	Great expectations: can artificial molecular machines deliver on their promise?. Chemical Society Reviews, 2012, 41, 19-30.	38.1	796
152	Controlling Reversible Dielectric Breakdown in Metal/Polymer Nanocomposites. Advanced Materials, 2012, 24, 1850-1855.	21.0	17
153	Carboxybetaine Methacrylate Polymers Offer Robust, Long-Term Protection against Cell Adhesion. Langmuir, 2011, 27, 10800-10804.	3.5	20
154	Swarming in Shallow Waters. Journal of Physical Chemistry Letters, 2011, 2, 770-774.	4.6	56
155	Controlling the Properties of Self-Assembled Monolayers by Substrate Curvatureâ€. Langmuir, 2011, 27, 1246-1250.	3.5	46
156	Electrostatics at the nanoscale. Nanoscale, 2011, 3, 1316-1344.	5.6	222
157	Independence of Primary and Secondary Structures in Periodic Precipitation Patterns. Journal of Physical Chemistry Letters, 2011, 2, 345-349.	4.6	24
158	Bridging Interactions and Selective Nanoparticle Aggregation Mediated by Monovalent Cations. ACS Nano, 2011, 5, 530-536.	14.6	71
159	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.	13.7	208
160	Dynamic internal gradients control and direct electric currents within nanostructured materials. Nature Nanotechnology, 2011, 6, 740-746.	31.5	48
161	The Mosaic of Surface Charge in Contact Electrification. Science, 2011, 333, 308-312.	12.6	667
162	Design, Implementation, Simulation, and Visualization of a Highly Efficient RIM Microfluidic Mixer for Rapid Freeze-Quench of Biological Samples. Applied Magnetic Resonance, 2011, 40, 415-425.	1.2	10

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163	Nanoseparations: Strategies for size and/or shape-selective purification of nanoparticles. Current Opinion in Colloid and Interface Science, 2011, 16, 135-148.	7.4	235
164	Nanoparticleâ€"Loaded Aerogels and Layered Aerogels Cast from Solâ€"Gel Mixtures. Small, 2011, 7, 2568-2572.	10.0	10
165	Nanoparticle-Aerogel Composites: Nanoparticle-Loaded Aerogels and Layered Aerogels Cast from Sol-Gel Mixtures (Small 18/2011). Small, 2011, 7, 2542-2542.	10.0	0
166	Electrostatically Templated Selfâ€Assembly of Polymeric Particles: The Role of Friction and Shape Complementarity. Advanced Functional Materials, 2011, 21, 4763-4768.	14.9	2
167	Reactionâ€Driven Mixing and Dispersion. Angewandte Chemie - International Edition, 2011, 50, 40-42.	13.8	7
168	Imprinting Chemical and Responsive Micropatterns into Metalâ€"Organic Frameworks. Angewandte Chemie - International Edition, 2011, 50, 276-279.	13.8	68
169	Is Water Necessary for Contact Electrification?. Angewandte Chemie - International Edition, 2011, 50, 6766-6770.	13.8	101
170	Gene therapy vectors with enhanced transfection based on hydrogels modified with affinity peptides. Biomaterials, 2011, 32, 5092-5099.	11.4	30
171	Micropatterned substrates: Tools for studying cell motility and aiding rational drug design. FASEB Journal, 2011, 25, .	0.5	0
172	Photoswitchable Catalysis Mediated by Dynamic Aggregation of Nanoparticles. Journal of the American Chemical Society, 2010, 132, 11018-11020.	13.7	208
173	Contact Electrification between Identical Materials. Angewandte Chemie - International Edition, 2010, 49, 946-949.	13.8	168
174	Reactionâ€Diffusion Systems in Intracellular Molecular Transport and Control. Angewandte Chemie - International Edition, 2010, 49, 4170-4198.	13.8	155
175	Nanoparticle Supracrystals and Layered Supracrystals as Chemical Amplifiers. Angewandte Chemie - International Edition, 2010, 49, 5737-5741.	13.8	38
176	Selfâ€Division of Macroscopic Droplets: Partitioning of Nanosized Cargo into Nanoscale Micelles. Angewandte Chemie - International Edition, 2010, 49, 6756-6759.	13.8	49
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