

Bartosz A Grzybowski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

308
papers

24,622
citations

72
h-index

151
g-index

329
ext. papers

27,237
ext. citations

13.3
avg, IF

7.35
L-index

#	Paper	IF	Citations
308	Large-Scale, Wavelet-Based Analysis of Lysosomal Trajectories and Co-Movements of Lysosomes with Nanoparticle Cargos.. <i>Cells</i> , 2022 , 11,	7.9	1
307	A computer algorithm to discover iterative sequences of organic reactions 2022 , 1, 49-58		1
306	Computer-designed repurposing of chemical wastes into drugs.. <i>Nature</i> , 2022 , 604, 668-676	50.4	3
305	An Electrocatalytic Reaction As a Basis for Chemical Computing in Water Droplets. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16908-16912	16.4	3
304	Scaffold-Directed Face Selectivity Machine-Learned from Vectors of Non-covalent Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 15358-15363	3.6	3
303	Mixed-Charge Nanocarriers Allow for Selective Targeting of Mitochondria by Otherwise Nonselective Dyes. <i>ACS Nano</i> , 2021 ,	16.7	4
302	Scaffold-Directed Face Selectivity Machine-Learned from Vectors of Non-covalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15230-15235	16.4	5
301	Self-Assembling Films of Covalent Organic Frameworks Enable Long-Term, Efficient Cycling of Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101726	24	31
300	On-Nanoparticle Gating Units Render an Ordinary Catalyst Substrate- and Site-Selective. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1807-1815	16.4	5
299	Chemist Ex Machina: Advanced Synthesis Planning by Computers. <i>Accounts of Chemical Research</i> , 2021 , 54, 1094-1106	24.3	7
298	Stimuli-responsive granular crystals assembled by dipolar and multipolar interactions. <i>Soft Matter</i> , 2021 , 17, 8595-8604	3.6	1
297	Transistors and logic circuits based on metal nanoparticles and ionic gradients. <i>Nature Electronics</i> , 2021 , 4, 109-115	28.4	7
296	Is Organic Chemistry Really Growing Exponentially?. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26226-26232	16.4	0
295	Mixed-Charge, pH-Responsive Nanoparticles for Selective Interactions with Cells, Organelles, and Bacteria. <i>Accounts of Materials Research</i> , 2020 , 1, 188-200	7.5	6
294	Computer-generated "synthetic contingency" plans at times of logistics and supply problems: scenarios for hydroxychloroquine and remdesivir. <i>Chemical Science</i> , 2020 , 11, 6736-6744	9.4	6
293	Targeted crystallization of mixed-charge nanoparticles in lysosomes induces selective death of cancer cells. <i>Nature Nanotechnology</i> , 2020 , 15, 331-341	28.7	86
292	Enhancing crystal growth using polyelectrolyte solutions and shear flow. <i>Nature</i> , 2020 , 579, 73-79	50.4	39

291	Shaping Microcrystals of Metal-Organic Frameworks by Reaction-Diffusion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10301-10305	16.4	12
290	Shaping Microcrystals of Metal-Organic Frameworks by Reaction-Diffusion. <i>Angewandte Chemie</i> , 2020 , 132, 10387-10391	3.6	2
289	Additive Contact Polarization of Nonferroelectric Polymers for Patterning of Multilevel Memory Elements. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1504-1510	9.5	1
288	Algorithmic Discovery of Tactical Combinations for Advanced Organic Syntheses. <i>Chem</i> , 2020 , 6, 280-293	16.2	22
287	Synergy Between Expert and Machine-Learning Approaches Allows for Improved Retrosynthetic Planning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 725-730	16.4	31
286	Synergy Between Expert and Machine-Learning Approaches Allows for Improved Retrosynthetic Planning. <i>Angewandte Chemie</i> , 2020 , 132, 735-740	3.6	6
285	Concentric liquid reactors for chemical synthesis and separation. <i>Nature</i> , 2020 , 586, 57-63	50.4	11
284	Computational planning of the synthesis of complex natural products. <i>Nature</i> , 2020 , 588, 83-88	50.4	47
283	Synthetic connectivity, emergence, and self-regeneration in the network of prebiotic chemistry. <i>Science</i> , 2020 , 369,	33.3	30
282	Minimal-uncertainty prediction of general drug-likeness based on Bayesian neural networks. <i>Nature Machine Intelligence</i> , 2020 , 2, 457-465	22.5	10
281	Charged Metal Nanoparticles for Chemoelectronic Circuits. <i>Advanced Materials</i> , 2019 , 31, e1804864	24	4
280	The logic of translating chemical knowledge into machine-processable forms: a modern playground for physical-organic chemistry. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1506-1521	4.9	20
279	Oscillating droplet trains in microfluidic networks and their suppression in blood flow. <i>Nature Physics</i> , 2019 , 15, 706-713	16.2	16
278	Selection of cost-effective yet chemically diverse pathways from the networks of computer-generated retrosynthetic plans. <i>Chemical Science</i> , 2019 , 10, 4640-4651	9.4	25
277	Immature dendritic cells navigate microscopic mazes to find tumor cells. <i>Lab on A Chip</i> , 2019 , 19, 1665-1675	17.5	7
276	Automatic mapping of atoms across both simple and complex chemical reactions. <i>Nature Communications</i> , 2019 , 10, 1434	17.4	26
275	Nanostructured Rhenium-Carbon Composites as Hydrogen-Evolving Catalysts Effective over the Entire pH Range. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2725-2733	5.6	12
274	Computational design of syntheses leading to compound libraries or isotopically labelled targets. <i>Chemical Science</i> , 2019 , 10, 9219-9232	9.4	12

273	Dynamic Assembly of Small Parts in Vortex-Vortex Traps Established within a Rotating Fluid. <i>Advanced Materials</i> , 2019 , 31, e1902298	24	1
272	Rapid and Accurate Prediction of p Values of C-H Acids Using Graph Convolutional Neural Networks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17142-17149	16.4	32
271	Efficient and Long-Lasting Current Rectification by Laminated Yet Separated, Oppositely Charged Monolayers. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2295-2300	4	3
270	Stretchable and Reactive Membranes of Metal-Organic Framework Nanosurfactants on Liquid Droplets Enable Dynamic Control of Self-Propulsion, Cargo Pick-Up, and Drop-Off. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900065	6	2
269	Uniform and directional growth of centimeter-sized single crystals of cyclodextrin-based metal organic frameworks. <i>CrystEngComm</i> , 2019 , 21, 1867-1871	3.3	5
268	Stretchable and Reactive Membranes of Metal-Organic Framework Nanosurfactants on Liquid Droplets Enable Dynamic Control of Self-Propulsion, Cargo Pick-Up, and Drop-Off. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1970071	6	0
267	Propagation of Oscillating Chemical Signals through Reaction Networks. <i>Angewandte Chemie</i> , 2019 , 131, 4568-4573	3.6	2
266	Prediction of Major Regio-, Site-, and Diastereoisomers in Diels-Alder Reactions by Using Machine-Learning: The Importance of Physically Meaningful Descriptors. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4515-4519	16.4	60
265	Propagation of Oscillating Chemical Signals through Reaction Networks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4520-4525	16.4	3
264	Prediction of Major Regio-, Site-, and Diastereoisomers in Diels-Alder Reactions by Using Machine-Learning: The Importance of Physically Meaningful Descriptors. <i>Angewandte Chemie</i> , 2019 , 131, 4563-4567	3.6	9
263	Navigating around Patented Routes by Preserving Specific Motifs along Computer-Planned Retrosynthetic Pathways. <i>CheM</i> , 2019 , 5, 460-473	16.2	28
262	Efficient Syntheses of Diverse, Medicinally Relevant Targets Planned by Computer and Executed in the Laboratory. <i>CheM</i> , 2018 , 4, 522-532	16.2	152
261	Discovery and Enumeration of Organic-Chemical and Biomimetic Reaction Cycles within the Network of Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2367-2371	16.4	11
260	Slit Tubes for Semisoft Pneumatic Actuators. <i>Advanced Materials</i> , 2018 , 30, 1704446	24	44
259	Systems of mechanized and reactive droplets powered by multi-responsive surfactants. <i>Nature</i> , 2018 , 553, 313-318	50.4	109
258	Chematica: A Story of Computer Code That Started to Think like a Chemist. <i>CheM</i> , 2018 , 4, 390-398	16.2	31
257	Artificial Heliotropism and Nyctinasty Based on Optomechanical Feedback and No Electronics. <i>Soft Robotics</i> , 2018 , 5, 93-98	9.2	7
256	Discovery and Enumeration of Organic-Chemical and Biomimetic Reaction Cycles within the Network of Chemistry. <i>Angewandte Chemie</i> , 2018 , 130, 2391-2395	3.6	3

255	Uy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. <i>Nature Communications</i> , 2018 , 9, 4539	17.4	41
254	Switchable counterion gradients around charged metallic nanoparticles enable reception of radio waves. <i>Science Advances</i> , 2018 , 4, eaau3546	14.3	5
253	The Influence of Distant Substrates on the Outcome of Contact Electrification. <i>Angewandte Chemie</i> , 2018 , 130, 15605-15609	3.6	4
252	The Influence of Distant Substrates on the Outcome of Contact Electrification. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15379-15383	16.4	6
251	Linguistic measures of chemical diversity and the "keywords" of molecular collections. <i>Scientific Reports</i> , 2018 , 8, 7598	4.9	14
250	Control and Switching of Charge-Selective Catalysis on Nanoparticles by Counterions. <i>ACS Catalysis</i> , 2018 , 8, 7469-7474	13.1	14
249	Tweezing of Magnetic and Non-Magnetic Objects with Magnetic Fields. <i>Advanced Materials</i> , 2017 , 29, 1603516	24	23
248	Large-Area, Freestanding MOF Films of Planar, Curvilinear, or Micropatterned Topographies. <i>Angewandte Chemie</i> , 2017 , 129, 133-138	3.6	5
247	Large-Area, Freestanding MOF Films of Planar, Curvilinear, or Micropatterned Topographies. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 127-132	16.4	39
246	Dynamic Self-Assembly of Magnetic/Polymer Composites in Rotating Frames of Reference. <i>Advanced Materials</i> , 2017 , 29, 1700614	24	8
245	Predicting the outcomes of organic reactions via machine learning: are current descriptors sufficient?. <i>Scientific Reports</i> , 2017 , 7, 3582	4.9	62
244	Metal-Organic Framework "Swimmers" with Energy-Efficient Autonomous Motility. <i>ACS Nano</i> , 2017 , 11, 10914-10923	16.7	20
243	Tunable Photoluminescence across the Visible Spectrum and Photocatalytic Activity of Mixed-Valence Rhenium Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15088-15093	16.4	31
242	Active colloids with collective mobility status and research opportunities. <i>Chemical Society Reviews</i> , 2017 , 46, 5551-5569	58.5	111
241	Interference-like patterns of static magnetic fields imprinted into polymer/nanoparticle composites. <i>Nature Communications</i> , 2017 , 8, 1564	17.4	10
240	Heterogeneous Catalysis "On Demand": Mechanically Controlled Catalytic Activity of a Metal Surface. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44264-44269	9.5	3
239	Non-Equilibrium Self-Assembly of Monocomponent and Multicomponent Tubular Structures in Rotating Fluids. <i>Advanced Materials</i> , 2017 , 29, 1704274	24	15
238	From dynamic self-assembly to networked chemical systems. <i>Chemical Society Reviews</i> , 2017 , 46, 5647-5688	58.5	176

237	Janus Particle Synthesis, Assembly, and Application. <i>Langmuir</i> , 2017 , 33, 6964-6977	4	192
236	Trapping, manipulation, and crystallization of live cells using magnetofluidic tweezers. <i>Nanoscale Horizons</i> , 2017 , 2, 50-54	10.8	8
235	Theoretical basis for the stabilization of charges by radicals on electrified polymers. <i>Chemical Science</i> , 2017 , 8, 2025-2032	9.4	19
234	Tactic, reactive, and functional droplets outside of equilibrium. <i>Chemical Society Reviews</i> , 2016 , 45, 4766-4785	9.5	52
233	Magnetofluidic Tweezing of Nonmagnetic Colloids. <i>Advanced Materials</i> , 2016 , 28, 3453-9	24	25
232	Computergestützte Synthesepaltung: Das Ende vom Anfang. <i>Angewandte Chemie</i> , 2016 , 128, 6004-6040	3.6	29
231	Computer-Assisted Synthetic Planning: The End of the Beginning. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5904-37	16.4	269
230	Chemo-electronic circuits based on metal nanoparticles. <i>Nature Nanotechnology</i> , 2016 , 11, 603-8	28.7	83
229	Electrostatic Titrations Reveal Surface Compositions of Mixed, On-Nanoparticle Monolayers Comprising Positively and Negatively Charged Ligands. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4139-4144	2.8	23
228	Self-assembly of like-charged nanoparticles into microscopic crystals. <i>Nanoscale</i> , 2016 , 8, 157-61	7.7	23
227	Engineering Gram Selectivity of Mixed-Charge Gold Nanoparticles by Tuning the Balance of Surface Charges. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8610-4	16.4	64
226	Engineering Gram Selectivity of Mixed-Charge Gold Nanoparticles by Tuning the Balance of Surface Charges. <i>Angewandte Chemie</i> , 2016 , 128, 8752-8756	3.6	13
225	The nanotechnology of life-inspired systems. <i>Nature Nanotechnology</i> , 2016 , 11, 585-92	28.7	268
224	Vortex flows impart chirality-specific lift forces. <i>Nature Communications</i> , 2015 , 6, 5640	17.4	28
223	Tunneling Electrical Connection to the Interior of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8169-75	16.4	65
222	A Priori Estimation of Organic Reaction Yields. <i>Angewandte Chemie</i> , 2015 , 127, 10947-10951	3.6	4
221	A Priori Estimation of Organic Reaction Yields. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10797-801	16.4	12
220	pH Oscillator Stretched in Space but Frozen in Time. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 760-66.4	6.4	6

219	Mechanochemical activation and patterning of an adhesive surface toward nanoparticle deposition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1726-9	16.4	31
218	Storage of electrical information in metal-organic-framework memristors. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4437-41	16.4	108
217	Label-free in situ optical monitoring of the adsorption of oppositely charged metal nanoparticles. <i>Langmuir</i> , 2014 , 30, 13478-82	4	11
216	Charged nanoparticles crystallizing and controlling crystallization: from coatings to nanoparticle surfactants to chemical amplifiers. <i>CrystEngComm</i> , 2014 , 16, 9368-9380	3.3	5
215	Temperature driven assembly of like-charged nanoparticles at non-planar liquid-liquid or gel-air interfaces. <i>Nanoscale</i> , 2014 , 6, 4475-9	7.7	2
214	Microfabricated Systems and Assays for Studying the Cytoskeletal Organization, Micromechanics, and Motility Patterns of Cancerous Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400158	4.6	6
213	Organic Chemistry as a Language and the Implications of Chemical Linguistics for Structural and Retrosynthetic Analyses. <i>Angewandte Chemie</i> , 2014 , 126, 8246-8250	3.6	12
212	Organic chemistry as a language and the implications of chemical linguistics for structural and retrosynthetic analyses. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8108-12	16.4	46
211	Synthesis of toroidal gold nanoparticles assisted by soft templates. <i>Langmuir</i> , 2014 , 30, 9886-90	4	15
210	A long-lasting concentration cell based on a magnetic electrolyte. <i>Nature Nanotechnology</i> , 2014 , 9, 901-68.7	16	
209	Accelerated Self-Replication under Non-Equilibrium, Periodic Energy Delivery. <i>Angewandte Chemie</i> , 2014 , 126, 177-181	3.6	8
208	Storage of Electrical Information in Metal-Organic-Framework Memristors. <i>Angewandte Chemie</i> , 2014 , 126, 4526-4530	3.6	28
207	Rücktitelbild: Accelerated Self-Replication under Non-Equilibrium, Periodic Energy Delivery (Angew. Chem. 1/2014). <i>Angewandte Chemie</i> , 2014 , 126, 338-338	3.6	
206	Microfabrication Tools: Microfabricated Systems and Assays for Studying the Cytoskeletal Organization, Micromechanics, and Motility Patterns of Cancerous Cells (Adv. Mater. Interfaces 7/2014). <i>Advanced Materials Interfaces</i> , 2014 , 1, n/a-n/a	4.6	1
205	Mechanically Driven Activation of Polyaniline into Its Conductive Form. <i>Angewandte Chemie</i> , 2014 , 126, 7066-7070	3.6	6
204	Universal area distributions in the monolayers of confluent mammalian cells. <i>Physical Review Letters</i> , 2014 , 112, 138104	7.4	12
203	Mechanical control of surface adsorption by nanoscale cracking. <i>Advanced Materials</i> , 2014 , 26, 3667-72	24	5
202	A metal-organic framework stabilizes an occluded photocatalyst. <i>Chemistry - A European Journal</i> , 2013 , 19, 11194-8	4.8	57

201	Nanostructural anisotropy underlies anisotropic electrical bistability. <i>Advanced Materials</i> , 2013 , 25, 1623-8	28.7	113
200	Geometric curvature controls the chemical patchiness and self-assembly of nanoparticles. <i>Nature Nanotechnology</i> , 2013 , 8, 676-81	35.4	59
199	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. <i>Energy and Environmental Science</i> , 2013 , 6, 3467	50.4	144
198	Colloidal assembly directed by virtual magnetic moulds. <i>Nature</i> , 2013 , 503, 99-103	3.6	6
197	Microphase separation as the cause of structural complexity in 2D liquids. <i>Soft Matter</i> , 2013 , 9, 10042	16.4	19
196	The rate of energy dissipation determines probabilities of non-equilibrium assemblies. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10304-8	3.7	9
195	Motility efficiency and spatiotemporal synchronization in non-metastatic vs. metastatic breast cancer cells. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1464-73	6.4	17
194	Why Cells are Microscopic: A Transport-Time Perspective. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 861-5	16.4	84
193	Controlled pH stability and adjustable cellular uptake of mixed-charge nanoparticles. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6392-5	6.4	17
192	When and Why Like-Sized, Oppositely Charged Particles Assemble into Diamond-like Crystals. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1507-11	24	134
191	Organic switches for surfaces and devices. <i>Advanced Materials</i> , 2013 , 25, 331-48	33.3	104
190	Control of surface charges by radicals as a principle of antistatic polymers protecting electronic circuitry. <i>Science</i> , 2013 , 341, 1368-71	3.6	6
189	The Rate of Energy Dissipation Determines Probabilities of Non-equilibrium Assemblies. <i>Angewandte Chemie</i> , 2013 , 125, 10494-10498	11.5	24
188	Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16339-43	24	13
187	Controlling reversible dielectric breakdown in metal/polymer nanocomposites. <i>Advanced Materials</i> , 2012 , 24, 1850-5	9.4	21
186	Estimating chemical reactivity and cross-influence from collective chemical knowledge. <i>Chemical Science</i> , 2012 , 3, 1497	3.6	6
185	Inorganic salts direct the assembly of charged nanoparticles into composite nanoscopic spheres, plates, or needles. <i>Faraday Discussions</i> , 2012 , 159, 201	6.2	18
184	Modular synthesis of bipyridinium oligomers and corresponding donor-acceptor oligorotaxanes with crown ethers. <i>Organic Letters</i> , 2012 , 14, 5066-9		

183	Ultrasensitive detection of toxic cations through changes in the tunnelling current across films of striped nanoparticles. <i>Nature Materials</i> , 2012 , 11, 978-85	27	187
182	Tomography and static-mechanical properties of adherent cells. <i>Advanced Materials</i> , 2012 , 24, 5719-26	24	9
181	The unstable and expanding interface between reacting liquids: theoretical interpretation of negative surface tension. <i>Soft Matter</i> , 2012 , 8, 1601-1608	3.6	19
180	Micropatterning: Tomography and Static-Mechanical Properties of Adherent Cells (Adv. Mater. 42/2012). <i>Advanced Materials</i> , 2012 , 24, 5774-5774	24	
179	What really drives chemical reactions on contact charged surfaces?. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7223-6	16.4	88
178	Heterogeneous Structure, Heterogeneous Dynamics, and Complex Behavior in Two-Dimensional Liquids. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2431-5	6.4	15
177	Microtubule guidance tested through controlled cell geometry. <i>Journal of Cell Science</i> , 2012 , 125, 5790-9	3.3	17
176	Plasmoelectronics: coupling plasmonic excitation with electron flow. <i>Langmuir</i> , 2012 , 28, 9093-102	4	47
175	Enhanced photocatalytic activity of hybrid Fe ₂ O ₃ /Pd nanoparticulate catalysts. <i>Chemical Science</i> , 2012 , 3, 1090	9.4	46
174	Responsive and Nonequilibrium Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2103-2111	6.4	52
173	Dynamic self-assembly of photo-switchable nanoparticles. <i>Soft Matter</i> , 2012 , 8, 227-234	3.6	45
172	Charged nanoparticles as supramolecular surfactants for controlling the growth and stability of microcrystals. <i>Nature Materials</i> , 2012 , 11, 227-32	27	55
171	Nanocomposites: Controlling Reversible Dielectric Breakdown in Metal/Polymer Nanocomposites (Adv. Mater. 14/2012). <i>Advanced Materials</i> , 2012 , 24, 1912-1912	24	
170	Mechanoradicals Created in Polymeric Sponges Drive Reactions in Aqueous Media. <i>Angewandte Chemie</i> , 2012 , 124, 3656-3660	3.6	18
169	Material Transfer and Polarity Reversal in Contact Charging. <i>Angewandte Chemie</i> , 2012 , 124, 4927-4931	3.6	32
168	Rewiring Chemistry: Algorithmic Discovery and Experimental Validation of One-Pot Reactions in the Network of Organic Chemistry. <i>Angewandte Chemie</i> , 2012 , 124, 8046-8051	3.6	29
167	Parallel Optimization of Synthetic Pathways within the Network of Organic Chemistry. <i>Angewandte Chemie</i> , 2012 , 124, 8052-8056	3.6	14
166	Chemical Network Algorithms for the Risk Assessment and Management of Chemical Threats. <i>Angewandte Chemie</i> , 2012 , 124, 8057-8061	3.6	9

165	Nanoparticle Core/Shell Architectures within MOF Crystals Synthesized by Reaction Diffusion. <i>Angewandte Chemie</i> , 2012 , 124, 7553-7557	3.6	14
164	Mechanoradicals created in "polymeric sponges" drive reactions in aqueous media. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3596-600	16.4	67
163	Transport into metal-organic frameworks from solution is not purely diffusive. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2662-6	16.4	33
162	Material transfer and polarity reversal in contact charging. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4843-7	16.4	118
161	Rewiring chemistry: algorithmic discovery and experimental validation of one-pot reactions in the network of organic chemistry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7922-7	16.4	61
160	Parallel optimization of synthetic pathways within the network of organic chemistry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7928-32	16.4	83
159	Chemical network algorithms for the risk assessment and management of chemical threats. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7933-7	16.4	21
158	Back Cover: Material Transfer and Polarity Reversal in Contact Charging (Angew. Chem. Int. Ed. 20/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5014-5014	16.4	
157	Nanoparticle core/shell architectures within MOF crystals synthesized by reaction diffusion. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7435-9	16.4	122
156	Molecular tethering or aggregation: is the existence of charge-transfer bands indicative of the formation of blue-box/tetrathiafulvalene inclusion complexes?. <i>Chemistry - A European Journal</i> , 2012 , 18, 5606-11	4.8	12
155	Great expectations: can artificial molecular machines deliver on their promise?. <i>Chemical Society Reviews</i> , 2012 , 41, 19-30	58.5	723
154	A Cost-Effective, Column-Free Route to Ethylene Glycol Oligomers EG6, EG10, and EG12. <i>Synthesis</i> , 2012 , 44, 717-722	2.9	5
153	Electrostatics at the nanoscale. <i>Nanoscale</i> , 2011 , 3, 1316-44	7.7	182
152	Independence of Primary and Secondary Structures in Periodic Precipitation Patterns. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 345-349	6.4	23
151	Bridging interactions and selective nanoparticle aggregation mediated by monovalent cations. <i>ACS Nano</i> , 2011 , 5, 530-6	16.7	57
150	How and why nanoparticle's curvature regulates the apparent pKa of the coating ligands. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2192-7	16.4	183
149	Dynamic internal gradients control and direct electric currents within nanostructured materials. <i>Nature Nanotechnology</i> , 2011 , 6, 740-6	28.7	42
148	The mosaic of surface charge in contact electrification. <i>Science</i> , 2011 , 333, 308-12	33.3	531

147	Design, Implementation, Simulation, and Visualization of a Highly Efficient RIM Microfluidic Mixer for Rapid Freeze-Quench of Biological Samples. <i>Applied Magnetic Resonance</i> , 2011 , 40, 415-425	0.8	8
146	Nanoseparations: Strategies for size and/or shape-selective purification of nanoparticles. <i>Current Opinion in Colloid and Interface Science</i> , 2011 , 16, 135-148	7.6	189
145	Nanoparticle-loaded aerogels and layered aerogels cast from sol-gel mixtures. <i>Small</i> , 2011 , 7, 2568-72	11	9
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1	Suggestions for second-pass anti-COVID-19 drugs based on the Artificial Intelligence measures of molecular similarity, shape and pharmacophore distribution.		5