

Markus Antonietti

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288
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195
g-index

297
ext. papers

44,444
ext. citations

12.2
avg, IF

7.95
L-index

#	Paper	IF	Citations
288	A metal-free polymeric photocatalyst for hydrogen production from water under visible light. <i>Nature Materials</i> , 2009 , 8, 76-80	27	8489
287	Polymeric graphitic carbon nitride as a heterogeneous organocatalyst: from photochemistry to multipurpose catalysis to sustainable chemistry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 68-89	16.4	2479
286	Porous, covalent triazine-based frameworks prepared by ionothermal synthesis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3450-3	16.4	1726
285	Polymeric Graphitic Carbon Nitride for Heterogeneous Photocatalysis. <i>ACS Catalysis</i> , 2012 , 2, 1596-1606	13.1	1256
284	Synthesis of a carbon nitride structure for visible-light catalysis by copolymerization. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 441-4	16.4	1118
283	Hollow Carbon Nanospheres with Superior Rate Capability for Sodium-Based Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 873-877	21.8	915
282	Bioinspired hollow semiconductor nanospheres as photosynthetic nanoparticles. <i>Nature Communications</i> , 2012 , 3,	17.4	750
281	Improving carbon nitride photocatalysis by supramolecular preorganization of monomers. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7118-21	16.4	650
280	Co-monomer control of carbon nitride semiconductors to optimize hydrogen evolution with visible light. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3183-7	16.4	624
279	Graphitic carbon nitride "reloaded": emerging applications beyond (photo)catalysis. <i>Chemical Society Reviews</i> , 2016 , 45, 2308-26	58.5	595
278	Metal nanoparticles at mesoporous N-doped carbons and carbon nitrides: functional Mott-Schottky heterojunctions for catalysis. <i>Chemical Society Reviews</i> , 2013 , 42, 6593-604	58.5	595
277	A stable single-site palladium catalyst for hydrogenations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11265-9	16.4	586
276	Aerobic oxidative coupling of amines by carbon nitride photocatalysis with visible light. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 657-60	16.4	552
275	Carbon-doped BN nanosheets for metal-free photoredox catalysis. <i>Nature Communications</i> , 2015 , 6, 7698	17.4	482
274	Triazine-based graphitic carbon nitride: a two-dimensional semiconductor. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7450-5	16.4	412
273	A Direct Synthesis of Mesoporous Carbons with Bicontinuous Pore Morphology from Crude Plant Material by Hydrothermal Carbonization. <i>Chemistry of Materials</i> , 2007 , 19, 4205-4212	9.6	391
272	An instant multi-responsive porous polymer actuator driven by solvent molecule sorption. <i>Nature Communications</i> , 2014 , 5, 4293	17.4	381

271	2008,		381
270	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13445-13449	16.4	379
269	Back in the black: hydrothermal carbonization of plant material as an efficient chemical process to treat the CO ₂ problem?. <i>New Journal of Chemistry</i> , 2007 , 31, 787	3.6	361
268	Conjugated porous polymers for energy applications. <i>Energy and Environmental Science</i> , 2012 , 5, 7819	35.4	343
267	Nickel nitride as an efficient electrocatalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8171-8177	13	325
266	Synthesis and characterization of noble metal colloids in block copolymer micelles. <i>Advanced Materials</i> , 1995 , 7, 1000-1005	24	316
265	Facile one-pot synthesis of nanoporous carbon nitride solids by using soft templates. <i>ChemSusChem</i> , 2010 , 3, 435-9	8.3	285
264	Toward Tailorable Porous Organic Polymer Networks: A High-Temperature Dynamic Polymerization Scheme Based on Aromatic Nitriles. <i>Macromolecules</i> , 2009 , 42, 319-326	5.5	275
263	A general salt-templating method to fabricate vertically aligned graphitic carbon nanosheets and their metal carbide hybrids for superior lithium ion batteries and water splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5480-5	16.4	267
262	Activating Cobalt Nanoparticles via the Mott-Schottky Effect in Nitrogen-Rich Carbon Shells for Base-Free Aerobic Oxidation of Alcohols to Esters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 811-818	16.4	266
261	Ionothermal Synthesis of Triazine-Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from "Sea Water". <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9372-9376	16.4	259
260	Polymer-Controlled Morphosynthesis and Mineralization of Metal Carbonate Superstructures (I) <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7396-405	3.4	257
259	A general soft-chemistry route to perovskites and related materials: synthesis of BaTiO ₃ , BaZrO ₃ , and LiNbO ₃ nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2270-3	16.4	249
258	Organic semiconductor photocatalyst can bifunctionalize arenes and heteroarenes. <i>Science</i> , 2019 , 365, 360-366	33.3	235
257	Photoredox Catalytic Organic Transformations using Heterogeneous Carbon Nitrides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15936-15947	16.4	215
256	Efficient Electrocatalytic Reduction of CO by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO Refinery. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7847-7852	16.4	202
255	Redefining biorefinery: the search for unconventional building blocks for materials. <i>Chemical Society Reviews</i> , 2015 , 44, 5821-35	58.5	201
254	Solvent-Free and Metal-Free Oxidation of Toluene Using O ₂ and g-C ₃ N ₄ with Nanopores: Nanostructure Boosts the Catalytic Selectivity. <i>ACS Catalysis</i> , 2012 , 2, 2082-2086	13.1	198

- 253 Polymer-Derived Heteroatom-Doped Porous Carbon Materials. *Chemical Reviews*, **2020**, 120, 9363-9419 68.1 196
- 252 Phenyl-Modified Carbon Nitride Quantum Dots with Distinct Photoluminescence Behavior. *Angewandte Chemie - International Edition*, **2016**, 55, 3672-6 16.4 196
- 251 Polycondensation of boron- and nitrogen-codoped holey graphene monoliths from molecules: carbocatalysts for selective oxidation. *Angewandte Chemie - International Edition*, **2013**, 52, 4572-6 16.4 195
- 250 Liquid-based growth of polymeric carbon nitride layers and their use in a mesostructured polymer solar cell with V(oc) exceeding 1 V. *Journal of the American Chemical Society*, **2014**, 136, 13486-9 16.4 190
- 249 Carbon- and Nitrogen-Based Organic Frameworks. *Accounts of Chemical Research*, **2015**, 48, 1591-600 24.3 182
- 248 Carbon Aerogels and Monoliths: Control of Porosity and Nanoarchitecture via Sol-Gel routes. *Chemistry of Materials*, **2014**, 26, 196-210 9.6 174
- 247 Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. *Advanced Functional Materials*, **2017**, 27, 1605785 15.6 172
- 246 Controlled carbon nitride growth on surfaces for hydrogen evolution electrodes. *Angewandte Chemie - International Edition*, **2014**, 53, 3654-8 16.4 170
- 245 Single-Site Gold Catalysts on Hierarchical N-Doped Porous Noble Carbon for Enhanced Electrochemical Reduction of Nitrogen. *Small Methods*, **2018**, 2, 1800202 12.8 169
- 244 Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. *ACS Nano*, **2017**, 11, 4358-4364 16.7 168
- 243 Silver phosphate/graphitic carbon nitride as an efficient photocatalytic tandem system for oxygen evolution. *ChemSusChem*, **2015**, 8, 1350-8 8.3 166
- 242 Ordered mesoporous Sb-, Nb-, and Ta-doped SnO₂ thin films with adjustable doping levels and high electrical conductivity. *ACS Nano*, **2009**, 3, 1373-8 16.7 154
- 241 Advancing the n-π* electron transition of carbon nitride nanotubes for H₂ photosynthesis. *Journal of Materials Chemistry A*, **2017**, 5, 12723-12728 13 153
- 240 Bio-inspired NADH regeneration by carbon nitride photocatalysis using diatom templates. *Energy and Environmental Science*, **2013**, 6, 1486 35.4 153
- 239 Designing Defective Crystalline Carbon Nitride to Enable Selective CO₂ Photoreduction in the Gas Phase. *Advanced Functional Materials*, **2019**, 29, 1900093 15.6 151
- 238 Electro- and Photochemical Water Oxidation on Ligand-free Co₃O₄ Nanoparticles with Tunable Sizes. *ACS Catalysis*, **2013**, 3, 383-388 13.1 149
- 237 Triazoles: A New Class of Precursors for the Synthesis of Negatively Charged Carbon Nitride Derivatives. *Chemistry of Materials*, **2015**, 27, 5170-5179 9.6 143
- 236 Molten salt activation for synthesis of porous carbon nanostructures and carbon sheets. *Carbon*, **2014**, 69, 460-466 10.4 141

235	Enhanced Carbon Dioxide Adsorption by a Mesoporous Poly(ionic liquid). <i>ACS Macro Letters</i> , 2012 , 1, 1028-1031	6.6	140
234	mpg-C ₃ N ₄ as a solid base catalyst for Knoevenagel condensations and transesterification reactions. <i>Catalysis Science and Technology</i> , 2012 , 2, 1005	5.5	138
233	Facilitating room-temperature Suzuki coupling reaction with light: Mott-Schottky photocatalyst for C-C-coupling. <i>Scientific Reports</i> , 2013 , 3,	4.9	137
232	Three-Phase Photocatalysis for the Enhanced Selectivity and Activity of CO Reduction on a Hydrophobic Surface. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14549-14555	16.4	136
231	Synthesis of ternary metal nitride nanoparticles using mesoporous carbon nitride as reactive template. <i>ACS Nano</i> , 2008 , 2, 2489-96	16.7	136
230	Nanoporous ionic organic networks: from synthesis to materials applications. <i>Chemical Society Reviews</i> , 2016 , 45, 6627-6656	58.5	132
229	Ligand functionality as a versatile tool to control the assembly behavior of preformed titania nanocrystals. <i>Chemistry - A European Journal</i> , 2005 , 11, 3541-51	4.8	124
228	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017 , 8, 13592	17.4	123
227	Boosting selective nitrogen reduction to ammonia on electron-deficient copper nanoparticles. <i>Nature Communications</i> , 2019 , 10, 4380	17.4	117
226	Nanofluidic Ion Transport and Energy Conversion through Ultrathin Free-Standing Polymeric Carbon Nitride Membranes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10123-10126	16.4	113
225	Heterogeneous Organocatalysis for Photoredox Chemistry. <i>ACS Catalysis</i> , 2018 , 8, 9790-9808	13.1	112
224	Synthesis and Characterization of Stable and Crystalline Ce _{1-x} Zr _x O ₂ Nanoparticle Sols. <i>Chemistry of Materials</i> , 2004 , 16, 2599-2604	9.6	111
223	"The Easier the Better" Preparation of Efficient Photocatalysts-Metastable Poly(heptazine imide) Salts. <i>Advanced Materials</i> , 2017 , 29, 1700555	24	110
222	Mesoporous Graphitic Carbon Nitride as a Heterogeneous Visible Light Photoinitiator for Radical Polymerization. <i>ACS Macro Letters</i> , 2012 , 1, 546-549	6.6	110
221	Ion Transport in Nanofluidic Devices for Energy Harvesting. <i>Joule</i> , 2019 , 3, 2364-2380	27.8	109
220	Synthesis of yttria-based crystalline and lamellar nanostructures and their formation mechanism. <i>Small</i> , 2005 , 1, 112-21	11	105
219	Thermal Transformation of Metal Oxide Nanoparticles into Nanocrystalline Metal Nitrides Using Cyanamide and Urea as Nitrogen Source. <i>Chemistry of Materials</i> , 2007 , 19, 3499-3505	9.6	104
218	Carbon- and Nitrogen-Based Porous Solids: A Recently Emerging Class of Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 386-398	5.1	103

217	The Concept of "Noble, Heteroatom-Doped Carbons," Their Directed Synthesis by Electronic Band Control of Carbonization, and Applications in Catalysis and Energy Materials. <i>Advanced Materials</i> , 2018 , 30, e1706836	24	102
216	Poly(Ionic Liquid)-Derived Carbon with Site-Specific N-Doping and Biphasic Heterojunction for Enhanced CO Capture and Sensing. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7557-7563	16.4	100
215	Photochemically Mediated Atom Transfer Radical Polymerization Using Polymeric Semiconductor Mesoporous Graphitic Carbon Nitride. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 675-681	2.6	99
214	Self-Assembly of Metal Phenolic Mesocrystals and Morphosynthetic Transformation toward Hierarchically Porous Carbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8269-73	16.4	98
213	The Performance of Nanoparticulate Graphitic Carbon Nitride as an Amphiphile. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6026-6029	16.4	97
212	Polyelectrolyte-directed nanoparticle aggregation: systematic morphogenesis of calcium carbonate by nonclassical crystallization. <i>ACS Nano</i> , 2009 , 3, 1966-78	16.7	96
211	Synthesis of stable aragonite superstructures by a biomimetic crystallization pathway. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6004-9	16.4	95
210	Color-Tunable Photoluminescence and NIR Electroluminescence in Carbon Nitride Thin Films and Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015 , 3, 913-917	8.1	94
209	Artificial light-driven ion pump for photoelectric energy conversion. <i>Nature Communications</i> , 2019 , 10, 74	17.4	94
208	Toward the Experimental Understanding of the Energy Storage Mechanism and Ion Dynamics in Ionic Liquid Based Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1800026	21.8	92
207	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <i>Angewandte Chemie</i> , 2017 , 129, 13630-13634 ^{3.6}		91
206	Continuous Heterogeneous Photocatalysis in Serial Micro-Batch Reactors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9976-9979	16.4	90
205	Capacitive Deionization using Biomass-based Microporous Salt-Templated Heteroatom-Doped Carbons. <i>ChemSusChem</i> , 2015 , 8, 1867-74	8.3	88
204	General Synthetic Route toward Highly Dispersed Metal Clusters Enabled by Poly(ionic liquid)s. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8971-8976	16.4	86
203	Bifunctional metal-free catalysis of mesoporous noble carbons for oxygen reduction and evolution reactions. <i>ChemSusChem</i> , 2015 , 8, 1156-60	8.3	81
202	Unexpected thermal characteristics of aqueous solutions of poly(2-isopropyl-2-oxazoline). <i>Soft Matter</i> , 2007 , 3, 430-431	3.6	81
201	Rheology of Small Spherical Polystyrene Microgels: A Direct Proof for a New Transport Mechanism in Bulk Polymers besides Reptation. <i>Macromolecules</i> , 1995 , 28, 4227-4233	5.5	80
200	Caffeine Doping of Carbon/Nitrogen-Based Organic Catalysts: Caffeine as a Supramolecular Edge Modifier for the Synthesis of Photoactive Carbon Nitride Tubes. <i>ChemCatChem</i> , 2015 , 7, 2826-2830	5.2	78

199	Facile general route toward tunable Magn π nanostructures and their use as thermoelectric metal oxide/carbon nanocomposites. <i>ACS Nano</i> , 2011 , 5, 9052-61	16.7	76
198	Graphitic carbon nitride and polymers: a mutual combination for advanced properties. <i>Materials Horizons</i> , 2020 , 7, 762-786	14.4	76
197	Eutectic Syntheses of Graphitic Carbon with High Pyrazinic Nitrogen Content. <i>Advanced Materials</i> , 2016 , 28, 1287-94	24	76
196	Visible-Light-Irradiated Graphitic Carbon Nitride Photocatalyzed Diels-Alder Reactions with Dioxygen as Sustainable Mediator for Photoinduced Electrons. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9336-9340	16.4	74
195	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14950-14954	16.4	74
194	Supramolecular Chemistry in Molten Sulfur: Preorganization Effects Leading to Marked Enhancement of Carbon Nitride Photoelectrochemistry. <i>Advanced Functional Materials</i> , 2015 , 25, 6265-6271	15.6	74
193	A Single Cu-Center Containing Enzyme-Mimic Enabling Full Photosynthesis under CO Reduction. <i>ACS Nano</i> , 2020 , 14, 8584-8593	16.7	73
192	Enhanced Dispersibility of Graphitic Carbon Nitride Particles in Aqueous and Organic Media via a One-Pot Grafting Approach. <i>Langmuir</i> , 2017 , 33, 9897-9906	4	73
191	Pd Supported on Carbon Nitride Boosts the Direct Hydrogen Peroxide Synthesis. <i>ACS Catalysis</i> , 2016 , 6, 6959-6966	13.1	72
190	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , 2018 , 30, e1802200	24	72
189	Development of molecular and solid catalysts for the direct low-temperature oxidation of methane to methanol. <i>ChemSusChem</i> , 2010 , 3, 277-82	8.3	71
188	Solid-state morphologies of linear and bottlebrush-shaped polystyrene β poly(Z-l-lysine) block copolymers. <i>Polymer</i> , 2002 , 43, 5321-5328	3.9	70
187	A "waiting" carbon nitride radical anion: a charge storage material and key intermediate in direct C-H thiolation of methylarenes using elemental sulfur as the "S"-source. <i>Chemical Science</i> , 2018 , 9, 3584-3591	9.4	69
186	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie</i> , 2017 , 129, 7955-7960	3.6	66
185	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020 , 32, e1905399	24	64
184	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8933-8938	13	62
183	Surface Area Control and Photocatalytic Activity of Conjugated Microporous Poly(benzothiadiazole) Networks. <i>Angewandte Chemie</i> , 2013 , 125, 1472-1476	3.6	62
182	Thermolytic synthesis of graphitic boron carbon nitride from an ionic liquid precursor: mechanism, structure analysis and electronic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23996		62

181	90 Years of Polymer Latexes and Heterophase Polymerization: More vital than ever. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 207-219	2.6	61
180	Breaking the Limits of Ionic Liquid-Based Supercapacitors: Mesoporous Carbon Electrodes Functionalized with Manganese Oxide Nanosplotches for Dense, Stable, and Wide-Temperature Energy Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1801298	15.6	60
179	Template- and Metal-Free Synthesis of Nitrogen-Rich Nanoporous "Noble" Carbon Materials by Direct Pyrolysis of a Preorganized Hexaazatriphenylene Precursor. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10765-10770	16.4	60
178	Thiazolium Poly(ionic liquid)s: Synthesis and Application as Binder for Lithium-Ion Batteries. <i>ACS Macro Letters</i> , 2015 , 4, 1312-1316	6.6	59
177	Tuning the Adsorption Energy of Methanol Molecules Along Ni-N-Doped Carbon Phase Boundaries by the Mott-Schottky Effect for Gas-Phase Methanol Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2697-2701	16.4	58
176	Aqueous Self-Assembly of Purely Hydrophilic Block Copolymers into Giant Vesicles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9715-8	16.4	58
175	Ligand and solvent effects in the nonaqueous synthesis of highly ordered anisotropic tungsten oxide nanostructures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3969		58
174	A hydrothermal process to turn waste biomass into artificial fulvic and humic acids for soil remediation. <i>Science of the Total Environment</i> , 2019 , 686, 1140-1151	10.2	56
173	Ionothermal Route to Layered Two-Dimensional Polymer-Frameworks Based on Heptazine Linkers. <i>Macromolecules</i> , 2010 , 43, 6639-6645	5.5	56
172	Understanding the Charge Storage Mechanism to Achieve High Capacity and Fast Ion Storage in Sodium-Ion Capacitor Anodes by Using Electrospun Nitrogen-Doped Carbon Fibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1902858	15.6	54
171	Photo-Driven Ion Transport for a Photodetector Based on an Asymmetric Carbon Nitride Nanotube Membrane. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12574-12579	16.4	53
170	Hexaazatriphenylene doped carbon nitrides Biomimetic photocatalyst with superior oxidation power. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 622-628	21.8	52
169	Self-assembly in inorganic and hybrid systems: beyond the molecular scale. <i>Dalton Transactions</i> , 2008 , 18-24	4.3	52
168	A green chemistry of graphene: photochemical reduction towards monolayer graphene sheets and the role of water adlayers. <i>ChemSusChem</i> , 2012 , 5, 642-6	8.3	51
167	Synthesis of Organized Layered Carbon by Self-Templating of Dithiooxamide. <i>Advanced Materials</i> , 2016 , 28, 6727-33	24	50
166	Polycondensation of Boron- and Nitrogen-Codoped Holey Graphene Monoliths from Molecules: Carbocatalysts for Selective Oxidation. <i>Angewandte Chemie</i> , 2013 , 125, 4670-4674	3.6	50
165	Ionothermal Synthesis of Triazine/Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from Sea Water. <i>Angewandte Chemie</i> , 2018 , 130, 9516-9520	3.6	49
164	Carbon nitride photocatalyzes regioselective aminium radical addition to the carbonyl bond and yields N-fused pyrroles. <i>Nature Communications</i> , 2019 , 10, 945	17.4	48

163	Reinforced Hydrogels via Carbon Nitride Initiated Polymerization. <i>Macromolecules</i> , 2017 , 50, 1862-1869	5.5	46
162	Potassium Poly(Heptazine Imide): Transition Metal-Free Solid-State Triplet Sensitizer in Cascade Energy Transfer and [3+2]-cycloadditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15061-15068	16.4	46
161	Mesoporous Fe ₃ C sponges as magnetic supports and as heterogeneous catalyst. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6019		46
160	Functional porous carbon nanospheres from sustainable precursors for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16263-16272	13	44
159	Biomimetic Principles in Polymer and Material Science. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 166-170	2.6	44
158	Synergic Effect between Nucleophilic Monomers and Cu(II) Metal-Organic Framework for Visible-Light-Triggered Controlled Photopolymerization. <i>Chemistry of Materials</i> , 2017 , 29, 9445-9455	9.6	43
157	Mesoporous graphitic carbon nitride as a heterogeneous catalyst for photoinduced copper(I)-catalyzed azide-alkyne cycloaddition. <i>RSC Advances</i> , 2014 , 4, 52170-52173	3.7	43
156	A carbon/titanium vanadium nitride composite for lithium storage. <i>ChemPhysChem</i> , 2010 , 11, 3219-23	3.2	43
155	Electrostatic Stabilization of Carbon Nitride Colloids in Organic Solvents Enables Stable Dispersions and Transparent Homogeneous CN Films for Optoelectronics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17532-17537	16.4	42
154	Dichloromethylation of enones by carbon nitride photocatalysis. <i>Nature Communications</i> , 2020 , 11, 13871	17.4	41
153	Local Platinum Environments in a Solid Analogue of the Molecular Periana Catalyst. <i>ACS Catalysis</i> , 2016 , 6, 2332-2340	13.1	40
152	An integrated strategy for the conversion of cellulosic biomass into γ-valerolactone. <i>Catalysis Science and Technology</i> , 2014 , 4, 3626-3630	5.5	40
151	Vanadium nitride@N-doped carbon nanocomposites: tuning of pore structure and particle size through salt templating and its influence on supercapacitance in ionic liquid media. <i>RSC Advances</i> , 2014 , 4, 26981-26989	3.7	39
150	Synthesis of terpene-poly(ethylene oxide)s by t-BuP4-promoted anionic ring-opening polymerization. <i>Polymer Chemistry</i> , 2012 , 3, 1763-1768	4.9	39
149	Nitrogen-Doped Carbon Electrodes: Influence of Microstructure and Nitrogen Configuration on the Electrical Conductivity of Carbonized Polyacrylonitrile and Poly(ionic liquid) Blends. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1930-1944	2.6	38
148	Ultrathin 2D Graphitic Carbon Nitride on Metal Films: Underpotential Sodium Deposition in Adlayers for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9067-9073	16.4	37
147	Hydrothermal decarboxylation of amino acid derived imidazolium zwitterions: a sustainable approach towards ionic liquids. <i>Green Chemistry</i> , 2014 , 16, 3705	10	37
146	Shine Bright Like a Diamond: New Light on an Old Polymeric Semiconductor. <i>Advanced Materials</i> , 2020 , 32, e1908140	24	36

145	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216	2.6	36
144	Enantioselective Nanoporous Carbon Based on Chiral Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 408-12	16.4	36
143	Ordered Mesoporous Carbons with High Micropore Content and Tunable Structure Prepared by Combined Hard and Salt Templating as Electrode Materials in Electric Double-Layer Capacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700128	5.9	36
142	Synthesis of an electronically modified carbon nitride from a processable semiconductor, 3-amino-1,2,4-triazole oligomer, via a topotactic-like phase transition. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8394-8401	13	35
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