Xinchen Wang

List of Publications by Citations

389 papers	72,572 citations	130 h-index	266 g-index
407 ext. papers	81,957 ext. citations	10.9 avg, IF	8.59 L-index

#	Paper	IF	Citations
389	A metal-free polymeric photocatalyst for hydrogen production from water under visible light. *Nature Materials*, **2009**, 8, 76-80	27	8489
388	Semiconductor heterojunction photocatalysts: design, construction, and photocatalytic performances. *Chemical Society Reviews*, **2014**, 43, 5234-44	58.5	2515
387	Polymeric graphitic carbon nitride as a heterogeneous organocatalyst: from photochemistry to multipurpose catalysis to sustainable chemistry. *Angewandte Chemie - International Edition*, **2012**, 51, 68-89	16.4	2479
386	Exfoliated graphitic carbon nitride nanosheets as efficient catalysts for hydrogen evolution under visible light. *Advanced Materials*, **2013**, 25, 2452-6	24	1859
385	Polymer semiconductors for artificial photosynthesis: hydrogen evolution by mesoporous graphitic carbon nitride with visible light. *Journal of the American Chemical Society*, **2009**, 131, 1680-1	16.4	1418
384	Polymeric Graphitic Carbon Nitride for Heterogeneous Photocatalysis. *ACS Catalysis*, **2012**, 2, 1596-1606	13.1	1256
383	Synthesis of a carbon nitride structure for visible-light catalysis by copolymerization. *Angewandte Chemie - International Edition*, **2010**, 49, 441-4	16.4	1118
382	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. *Angewandte Chemie - International Edition*, **2015**, 54, 12868-84	16.4	1014
381	Metal-Containing Carbon Nitride Compounds: A New Functional Organic□Metal Hybrid Material. *Advanced Materials*, **2009**, 21, 1609-1612	24	993
380	Graphene-based carbon nitride nanosheets as efficient metal-free electrocatalysts for oxygen reduction reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 5339-43	16.4	949
379	Iodine modified carbon nitride semiconductors as visible light photocatalysts for hydrogen evolution. *Advanced Materials*, **2014**, 26, 805-9	24	885
378	Fe-g-C3N4-catalyzed oxidation of benzene to phenol using hydrogen peroxide and visible light. *Journal of the American Chemical Society*, **2009**, 131, 11658-9	16.4	877
377	Crumpled nitrogen-doped graphene nanosheets with ultrahigh pore volume for high-performance supercapacitor. *Advanced Materials*, **2012**, 24, 5610-6	24	801
376	mpg-C(3)N(4)-Catalyzed selective oxidation of alcohols using O(2) and visible light. *Journal of the American Chemical Society*, **2010**, 132, 16299-301	16.4	794
375	Two-dimensional covalent carbon nitride nanosheets: synthesis, functionalization, and applications. *Energy and Environmental Science*, **2015**, 8, 3092-3108	35.4	769
374	Bioinspired hollow semiconductor nanospheres as photosynthetic nanoparticles. *Nature Communications*, **2012**, 3,	17.4	750
373	Polycondensation of thiourea into carbon nitride semiconductors as visible light photocatalysts. *Journal of Materials Chemistry*, **2012**, 22, 8083		730

372	Metal-Free Photocatalyst for H Evolution in Visible to Near-Infrared Region: Black Phosphorus/Graphitic Carbon Nitride. *Journal of the American Chemical Society*, **2017**, 139, 13234-13242	16.4	717
371	Layered nanojunctions for hydrogen-evolution catalysis. *Angewandte Chemie - International Edition*, **2013**, 52, 3621-5	16.4	713
370	Overall water splitting by Pt/g-CN photocatalysts without using sacrificial agents. *Chemical Science*, **2016**, 7, 3062-3066	9.4	689
369	Activation of carbon nitride solids by protonation: morphology changes, enhanced ionic conductivity, and photoconduction experiments. *Journal of the American Chemical Society*, **2009**, 131, 50-1	16.4	640
368	Co-monomer control of carbon nitride semiconductors to optimize hydrogen evolution with visible light. *Angewandte Chemie - International Edition*, **2012**, 51, 3183-7	16.4	624
367	Sulfur-mediated synthesis of carbon nitride: Band-gap engineering and improved functions for photocatalysis. *Energy and Environmental Science*, **2011**, 4, 675-678	35.4	624
366	Nanostructure engineering and doping of conjugated carbon nitride semiconductors for hydrogen photosynthesis. *Angewandte Chemie - International Edition*, **2013**, 52, 1735-8	16.4	609
365	Nanospherical carbon nitride frameworks with sharp edges accelerating charge collection and separation at a soft photocatalytic interface. *Advanced Materials*, **2014**, 26, 4121-6	24	601
364	Photocatalytic Activities of Graphitic Carbon Nitride Powder for Water Reduction and Oxidation under Visible Light. *Journal of Physical Chemistry C*, **2009**, 113, 4940-4947	3.8	601
363	Boron- and fluorine-containing mesoporous carbon nitride polymers: metal-free catalysts for cyclohexane oxidation. *Angewandte Chemie - International Edition*, **2010**, 49, 3356-9	16.4	586
362	From Melamine-Cyanuric Acid Supramolecular Aggregates to Carbon Nitride Hollow Spheres. *Advanced Functional Materials*, **2013**, 23, 3661-3667	15.6	585
361	Aerobic oxidative coupling of amines by carbon nitride photocatalysis with visible light. *Angewandte Chemie - International Edition*, **2011**, 50, 657-60	16.4	552
360	A facile band alignment of polymeric carbon nitride semiconductors to construct isotype heterojunctions. *Angewandte Chemie - International Edition*, **2012**, 51, 10145-9	16.4	542
359	Conjugated Polymers: Catalysts for Photocatalytic Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2016**, 55, 15712-15727	16.4	531
358	Tri-s-triazine-Based Crystalline Graphitic Carbon Nitrides for Highly Efficient Hydrogen Evolution Photocatalysis. *ACS Catalysis*, **2016**, 6, 3921-3931	13.1	531
357	Functional carbon nitride materials □design strategies for electrochemical devices. *Nature Reviews Materials*, **2017**, 2,	73.3	526
356	Metal-free activation of dioxygen by graphene/g-C3N4 nanocomposites: functional dyads for selective oxidation of saturated hydrocarbons. *Journal of the American Chemical Society*, **2011**, 133, 8074-7	16.4	505
355	Metal-free heterogeneous catalysis for sustainable chemistry. *ChemSusChem*, **2010**, 3, 169-80	8.3	500

354	Carbon-doped BN nanosheets for metal-free photoredox catalysis. *Nature Communications*, **2015**, 6, 7698	17.4	482
353	Helical graphitic carbon nitrides with photocatalytic and optical activities. *Angewandte Chemie - International Edition*, **2014**, 53, 11926-30	16.4	466
352	Construction of conjugated carbon nitride nanoarchitectures in solution at low temperatures for photoredox catalysis. *Angewandte Chemie - International Edition*, **2012**, 51, 11814-8	16.4	460
351	Metal-free activation of H2O2 by g-C3N4 under visible light irradiation for the degradation of organic pollutants. *Physical Chemistry Chemical Physics*, **2012**, 14, 1455-62	3.6	452
350	Multifunctional Metal-Organic Frameworks for Photocatalysis. *Small*, **2015**, 11, 3097-112	11	450
349	Cobalt imidazolate metal-organic frameworks photosplit CO(2) under mild reaction conditions. *Angewandte Chemie - International Edition*, **2014**, 53, 1034-8	16.4	446
348	Excellent Visible-Light Photocatalysis of Fluorinated Polymeric Carbon Nitride Solids. *Chemistry of Materials*, **2010**, 22, 5119-5121	9.6	443
347	Photocatalytic activity of a hierarchically macro/mesoporous titania. *Langmuir*, **2005**, 21, 2552-9	4	414
346	One-step solvothermal synthesis of a carbon@TiO(2) dyade structure effectively promoting visible-light photocatalysis. *Advanced Materials*, **2010**, 22, 3317-21	24	411
345	Tri-s-triazine-Based Crystalline Carbon Nitride Nanosheets for an Improved Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1700008	24	407
344	Precise Formation of a Hollow Carbon Nitride Structure with a Janus Surface To Promote Water Splitting by Photoredox Catalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 11512-6	16.4	382
343	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. *Angewandte Chemie - International Edition*, **2017**, 56, 13445-13449	16.4	379
342	A facile synthesis of Br-modified g-C3N4 semiconductors for photoredox water splitting. *Applied Catalysis B: Environmental*, **2016**, 192, 116-125	21.8	368
341	Ordered Mesoporous SBA-15 Type Graphitic Carbon Nitride: A Semiconductor Host Structure for Photocatalytic Hydrogen Evolution with Visible Light. *Chemistry of Materials*, **2009**, 21, 4093-4095	9.6	358
340	Mesoporous g-C3N4 nanorods as multifunctional supports of ultrafine metal nanoparticles: hydrogen generation from water and reduction of nitrophenol with tandem catalysis in one step. *Chemical Science*, **2012**, 3, 2170	9.4	356
339	Synthesis of bulk and nanoporous carbon nitride polymers from ammonium thiocyanate for photocatalytic hydrogen evolution. *Journal of Materials Chemistry*, **2011**, 21, 13032		353
338	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. *Chemistry of Materials*, **2011**, 23, 4344-4348	9.6	348
337	Synthesis of boron doped polymeric carbon nitride solids and their use as metal-free catalysts for aliphatic C–H bond oxidation. *Chemical Science*, **2011**, 2, 446-450	9.4	345

336	Synthesis of Carbon Nitride Semiconductors in Sulfur Flux for Water Photoredox Catalysis. *ACS Catalysis*, **2012**, 2, 940-948	13.1	337
335	Photocatalytic CO2 reduction by CdS promoted with a zeolitic imidazolate framework. *Applied Catalysis B: Environmental*, **2015**, 162, 494-500	21.8	318
334	Sol processing of conjugated carbon nitride powders for thin-film fabrication. *Angewandte Chemie - International Edition*, **2015**, 54, 6297-301	16.4	313
333	Photochemical Reduction of CO2 by Graphitic Carbon Nitride Polymers. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 353-358	8.3	312
332	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. *Angewandte Chemie - International Edition*, **2019**, 58, 6164-6175	16.4	312
331	Imidazolium Ionic Liquids, Imidazolylidene Heterocyclic Carbenes, and Zeolitic Imidazolate Frameworks for CO2 Capture and Photochemical Reduction. *Angewandte Chemie - International Edition*, **2016**, 55, 2308-20	16.4	309
330	An Optimized and General Synthetic Strategy for Fabrication of Polymeric Carbon Nitride Nanoarchitectures. *Advanced Functional Materials*, **2013**, 23, 3008-3014	15.6	306
329	Photocatalytic hydrogen evolution on dye-sensitized mesoporous carbon nitride photocatalyst with magnesium phthalocyanine. *Physical Chemistry Chemical Physics*, **2010**, 12, 13020-5	3.6	295
328	A Facile Steam Reforming Strategy to Delaminate Layered Carbon Nitride Semiconductors for Photoredox Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 3992-3996	16.4	293
327	Photocatalytic reduction of CO2 by graphitic carbon nitride polymers derived from urea and barbituric acid. *Applied Catalysis B: Environmental*, **2015**, 179, 1-8	21.8	287
326	Layered Co(OH)2 Deposited Polymeric Carbon Nitrides for Photocatalytic Water Oxidation. *ACS Catalysis*, **2015**, 5, 941-947	13.1	285
325	Facile one-pot synthesis of nanoporous carbon nitride solids by using soft templates. *ChemSusChem* , **2010**, 3, 435-9	8.3	285
324	Boron Carbon Nitride Semiconductors Decorated with CdS Nanoparticles for Photocatalytic Reduction of CO2. *ACS Catalysis*, **2018**, 8, 4928-4936	13.1	279
323	Visible-light reduction CO2 with dodecahedral zeolitic imidazolate framework ZIF-67 as an efficient co-catalyst. *Applied Catalysis B: Environmental*, **2017**, 209, 476-482	21.8	278
322	Black Phosphorus and Polymeric Carbon Nitride Heterostructure for Photoinduced Molecular Oxygen Activation. *Advanced Functional Materials*, **2018**, 28, 1705407	15.6	277
321	Two dimensional conjugated polymers with enhanced optical absorption and charge separation for photocatalytic hydrogen evolution. *Energy and Environmental Science*, **2014**, 7, 1902	35.4	274
320	Synthesis of transition metal-modified carbon nitride polymers for selective hydrocarbon oxidation. *ChemSusChem*, **2011**, 4, 274-81	8.3	266
319	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. *Angewandte Chemie - International Edition*, **2016**, 55, 9202-6	16.4	265

318	Ionothermal Synthesis of Triazine-Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from "Sea Water". *Angewandte Chemie - International Edition*, **2018**, 57, 9372-9376	16.4	259
317	Making Metal?Carbon Nitride Heterojunctions for Improved Photocatalytic Hydrogen Evolution with Visible Light. *ChemCatChem*, **2010**, 2, 834-838	5.2	257
316	Invisible Security Ink Based on Water-Soluble Graphitic Carbon Nitride Quantum Dots. *Angewandte Chemie - International Edition*, **2016**, 55, 2773-7	16.4	251
315	Pore-Wall Chemistry and Photocatalytic Activity of Mesoporous Titania Molecular Sieve Films. *Chemistry of Materials*, **2004**, 16, 1523-1530	9.6	245
314	Activation of n -Transitions in Two-Dimensional Conjugated Polymers for Visible Light Photocatalysis. *Journal of Physical Chemistry C*, **2014**, 118, 29981-29989	3.8	244
313	Surface engineering of graphitic carbon nitride polymers with cocatalysts for photocatalytic overall water splitting. *Chemical Science*, **2017**, 8, 5261-5274	9.4	238
312	Dispersing molecular cobalt in graphitic carbon nitride frameworks for photocatalytic water oxidation. *Small*, **2015**, 11, 1215-21	11	235
311	Semiconductor-redox catalysis promoted by metal-organic frameworks for CO2 reduction. *Physical Chemistry Chemical Physics*, **2014**, 16, 14656-60	3.6	235
310	Photocatalytic performance of , and Ga2O3 for the destruction of volatile aromatic pollutants in air. *Journal of Catalysis*, **2007**, 250, 12-18	7.3	233
309	Photocatalytic oxidation of water by polymeric carbon nitride nanohybrids made of sustainable elements. *Chemical Science*, **2012**, 3, 443-446	9.4	232
308	Decorating CoP and Pt Nanoparticles on Graphitic Carbon Nitride Nanosheets to Promote Overall Water Splitting by Conjugated Polymers. *ChemSusChem*, **2017**, 10, 87-90	8.3	229
307	Polymeres graphitisches Kohlenstoffnitrid als heterogener Organokatalysator: von der Photochemie ber die Vielzweckkatalyse hin zur nachhaltigen Chemie. *Angewandte Chemie*, **2012**, 124, 70-92	3.6	227
306	2D sp2 Carbon-Conjugated Covalent Organic Frameworks for Photocatalytic Hydrogen Production from Water. *CheM*, **2019**, 5, 1632-1647	16.2	226
305	Molecular doping of carbon nitride photocatalysts with tunable bandgap and enhanced activity. *Journal of Catalysis*, **2014**, 310, 24-30	7.3	226
304	Co-Monomer Control of Carbon Nitride Semiconductors to Optimize Hydrogen Evolution with Visible Light. *Angewandte Chemie*, **2012**, 124, 3237-3241	3.6	220
303	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. *Nature Communications*, **2019**, 10, 2467	17.4	218
302	Development of a stable MnCo2O4 cocatalyst for photocatalytic CO2 reduction with visible light. *ACS Applied Materials & Interfaces*, **2015**, 7, 4327-35	9.5	212
301	Shell-engineering of hollow g-C3N4 nanospheres via copolymerization for photocatalytic hydrogen evolution. *Chemical Communications*, **2015**, 51, 9706-9	5.8	207

300	Carbon Nitride Aerogels for the Photoredox Conversion of Water. *Angewandte Chemie - International Edition*, **2017**, 56, 10905-10910	16.4	206
299	Metal-free photocatalytic degradation of 4-chlorophenol in water by mesoporous carbon nitride semiconductors. *Catalysis Science and Technology*, **2012**, 2, 1396	5.5	206
298	Photocatalytic hydrogen evolution through fully conjugated poly(azomethine) networks. *Chemical Communications*, **2010**, 46, 8932-4	5.8	206
297	ZrO2-modified mesoporous nanocrystalline TiO2-xNx as efficient visible light photocatalysts. *Environmental Science & Technology*, **2006**, 40, 2369-74	10.3	205
296	Solvent-Free and Metal-Free Oxidation of Toluene Using O2 and g-C3N4 with Nanopores: Nanostructure Boosts the Catalytic Selectivity. *ACS Catalysis*, **2012**, 2, 2082-2086	13.1	198
295	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 3433-3437	16.4	197
294	Eco-Friendly Photochemical Production of H2O2 through O2 Reduction over Carbon Nitride Frameworks Incorporated with Multiple Heteroelements. *ACS Catalysis*, **2017**, 7, 2886-2895	13.1	191
293	Photocatalytic Oxygen Evolution from Functional Triazine-Based Polymers with Tunable Band Structures. *Angewandte Chemie - International Edition*, **2018**, 57, 470-474	16.4	191
292	A Facile Band Alignment of Polymeric Carbon Nitride Semiconductors to Construct Isotype Heterojunctions. *Angewandte Chemie*, **2012**, 124, 10292-10296	3.6	189
291	Polymeric Carbon Nitride/Reduced Graphene Oxide/Fe O : All-Solid-State Z-Scheme System for Photocatalytic Overall Water Splitting. *Angewandte Chemie - International Edition*, **2019**, 58, 7102-7106	16.4	184
290	Condensed and low-defected graphitic carbon nitride with enhanced photocatalytic hydrogen evolution under visible light irradiation. *Applied Catalysis B: Environmental*, **2016**, 181, 413-419	21.8	177
289	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. *Nature Catalysis*, **2020**, 3, 649-655	36.5	173
288	Graphene-Based Carbon Nitride Nanosheets as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reactions. *Angewandte Chemie*, **2011**, 123, 5451-5455	3.6	172
287	The effect of postnitridation annealing on the surface property and photocatalytic performance of N-doped TiO2 under visible light irradiation. *Journal of Catalysis*, **2008**, 255, 59-67	7.3	172
286	Post-annealing reinforced hollow carbon nitride nanospheres for hydrogen photosynthesis. *Nanoscale*, **2015**, 7, 465-70	7.7	166
285	The effect of the pore-wall structure of carbon nitride on photocatalytic CO2 reduction under visible light. *Journal of Materials Chemistry A*, **2014**, 2, 15146-15151	13	166
284	Photocatalytic hydrogen production over carbon nitride loaded with WS2 as cocatalyst under visible light. *Applied Catalysis B: Environmental*, **2014**, 156-157, 122-127	21.8	165
283	Efficient decomposition of benzene over a beta-Ga2O3 photocatalyst under ambient conditions. *Environmental Science & Technology*, **2006**, 40, 5799-803	10.3	162

282	Probing of photocatalytic surface sites on SO42−/TiO2 solid acids by in situ FT-IR spectroscopy and pyridine adsorption. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 179, 339-347	4.7	162
281	Integrating CdS quantum dots on hollow graphitic carbon nitride nanospheres for hydrogen evolution photocatalysis. *Applied Catalysis B: Environmental*, **2015**, 179, 479-488	21.8	160
280	A facile synthesis of covalent carbon nitride photocatalysts by Co-polymerization of urea and phenylurea for hydrogen evolution. *Journal of Catalysis*, **2013**, 307, 246-253	7.3	157
279	Molecular and textural engineering of conjugated carbon nitride catalysts for selective oxidation of alcohols with visible light. *Chemical Science*, **2013**, 4, 3244	9.4	157
278	Thermally-induced desulfurization and conversion of guanidine thiocyanate into graphitic carbon nitride catalysts for hydrogen photosynthesis. *Journal of Materials Chemistry A*, **2014**, 2, 2942	13	156
277	Metal-free disinfection effects induced by graphitic carbon nitride polymers under visible light illumination. *Chemical Communications*, **2014**, 50, 4338-40	5.8	153
276	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. *Applied Catalysis B: Environmental*, **2018**, 231, 234-241	21.8	152
275	Electro- and Photochemical Water Oxidation on Ligand-free Co3O4Nanoparticles with Tunable Sizes. *ACS Catalysis*, **2013**, 3, 383-388	13.1	149
274	A simple and general method for the synthesis of multicomponent Na2V6O16.3H2O single-crystal nanobelts. *Journal of the American Chemical Society*, **2004**, 126, 3422-3	16.4	149
273	Synthesis of a Carbon Nitride Structure for Visible-Light Catalysis by Copolymerization. *Angewandte Chemie*, **2010**, 122, 451-454	3.6	146
272	A stable ZnCo2O4 cocatalyst for photocatalytic CO2 reduction. *Chemical Communications*, **2015**, 51, 1517-9	5.9	145
271	A mesoporous Pt/TiO2 nanoarchitecture with catalytic and photocatalytic functions. *Chemistry - A European Journal*, **2005**, 11, 2997-3004	4.8	144
270	Aerobic Oxidative Coupling of Amines by Carbon Nitride Photocatalysis with Visible Light. *Angewandte Chemie*, **2011**, 123, 683-686	3.6	142
269	mpg-C3N4 as a solid base catalyst for Knoevenagel condensations and transesterification reactions. *Catalysis Science and Technology*, **2012**, 2, 1005	5.5	138
268	Nanostructure Engineering and Doping of Conjugated Carbon Nitride Semiconductors for Hydrogen Photosynthesis. *Angewandte Chemie*, **2013**, 125, 1779-1782	3.6	137
267	Hierarchical macro/mesoporous TiO2/SiO2 and TiO2/ZrO2 nanocomposites for environmental photocatalysis. *Energy and Environmental Science*, **2009**, 2, 872	35.4	136
266	Photocatalytic overall water splitting by conjugated semiconductors with crystalline poly(triazine imide) frameworks. *Chemical Science*, **2017**, 8, 5506-5511	9.4	134
265	Carbon Vacancies in a Melon Polymeric Matrix Promote Photocatalytic Carbon Dioxide Conversion. *Angewandte Chemie - International Edition*, **2019**, 58, 1134-1137	16.4	133

264	Carbon-Doped BN Nanosheets for the Oxidative Dehydrogenation of Ethylbenzene. *Angewandte Chemie - International Edition*, **2017**, 56, 8231-8235	16.4	132
263	Reducing the Exciton Binding Energy of Donor-Acceptor-Based Conjugated Polymers to Promote Charge-Induced Reactions. *Angewandte Chemie - International Edition*, **2019**, 58, 10236-10240	16.4	132
262	Synthesis of Layered Carbonitrides from Biotic Molecules for Photoredox Transformations. *Angewandte Chemie - International Edition*, **2017**, 56, 6627-6631	16.4	131
261	Polymeres graphitisches Kohlenstoffnitrid f□ die nachhaltige Photoredoxkatalyse. *Angewandte Chemie*, **2015**, 127, 13060-13077	3.6	130
260	Biomimetic Donor-Acceptor Motifs in Conjugated Polymers for Promoting Exciton Splitting and Charge Separation. *Angewandte Chemie - International Edition*, **2018**, 57, 8729-8733	16.4	130
259	Water oxidation electrocatalysis by a zeolitic imidazolate framework. *Nanoscale*, **2014**, 6, 9930-4	7.7	128
258	Photocatalytic CO conversion by polymeric carbon nitrides. *Chemical Communications*, **2018**, 54, 5674-5687	5.8	126
257	The function-led design of Z-scheme photocatalytic systems based on hollow carbon nitride semiconductors. *Chemical Communications*, **2015**, 51, 17467-70	5.8	124
256	Gold plasmon-induced photocatalytic dehydrogenative coupling of methane to ethane on polar oxide surfaces. *Energy and Environmental Science*, **2018**, 11, 294-298	35.4	124
255	Room temperature synthesis of heptazine-based microporous polymer networks as photocatalysts for hydrogen evolution. *Macromolecular Rapid Communications*, **2013**, 34, 1008-13	4.8	123
254	N-doped SiO2/TiO2 mesoporous nanoparticles with enhanced photocatalytic activity under visible-light irradiation. *Chemosphere*, **2008**, 72, 414-21	8.4	123
253	Degradation of benzene over a zinc germanate photocatalyst under ambient conditions. *Environmental Science & Technology*, **2008**, 42, 7387-91	10.3	117
252	Highly active tantalum(V) nitride nanoparticles prepared from a mesoporous carbon nitride template for photocatalytic hydrogen evolution under visible light irradiation. *Journal of Materials Chemistry*, **2010**, 20, 4295		116
251	Cobalt Imidazolate Metal□Organic Frameworks Photosplit CO2 under Mild Reaction Conditions. *Angewandte Chemie*, **2014**, 126, 1052-1056	3.6	114
250	Metal□organic frameworks for solar energy conversion by photoredox catalysis. *Coordination Chemistry Reviews*, **2018**, 373, 83-115	23.2	113
249	An ordered cubic Im3m mesoporous Cr-TiO2 visible light photocatalyst. *Chemical Communications*, **2006**, 2717-9	5.8	113
248	Metal-Free Dehydrogenation of N-Heterocycles by Ternary h-BCN Nanosheets with Visible Light. *Angewandte Chemie - International Edition*, **2018**, 57, 5487-5491	16.4	112
247	Mesoporous Graphitic Carbon Nitride as a Heterogeneous Visible Light Photoinitiator for Radical Polymerization. *ACS Macro Letters*, **2012**, 1, 546-549	6.6	110

246	InVO4-sensitized TiO2 photocatalysts for efficient air purification with visible light. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 193, 213-221	4.7	110
245	Selective self-propagating combustion synthesis of hexagonal and orthorhombic nanocrystalline yttrium iron oxide. *Journal of Solid State Chemistry*, **2004**, 177, 3666-3674	3.3	110
244	Selective oxidation of benzene to phenol by Fe-CN/TS-1 catalysts under visible light irradiation. *Applied Catalysis B: Environmental*, **2014**, 152-153, 383-389	21.8	109
243	Substantial Cyano-Substituted Fully sp2-Carbon-Linked Framework: Metal-Free Approach and Visible-Light-Driven Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1703146	15.6	109
242	Formation of heterostructures via direct growth CN on h-BN porous nanosheets for metal-free photocatalysis. *Nano Energy*, **2017**, 42, 58-68	17.1	108
241	Sonochemical synthesis of aragonite-type calcium carbonate with different morphologies. *New Journal of Chemistry*, **2004**, 28, 1027	3.6	108
240	Sol Processing of Conjugated Carbon Nitride Powders for Thin-Film Fabrication. *Angewandte Chemie*, **2015**, 127, 6395-6399	3.6	106
239	Layering MoS2 on soft hollow g-C3N4 nanostructures for photocatalytic hydrogen evolution. *Applied Catalysis A: General*, **2016**, 521, 2-8	5.1	106
238	Helical Graphitic Carbon Nitrides with Photocatalytic and Optical Activities. *Angewandte Chemie*, **2014**, 126, 12120-12124	3.6	104
237	A Unique Ternary Semiconductor-(Semiconductor/Metal) Nano-Architecture for Efficient Photocatalytic Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 11495-500	16.4	104
236	Recent advances in visible light-driven water oxidation and reduction in suspension systems. *Materials Today*, **2018**, 21, 897-924	21.8	103
235	Conjugated donor-acceptor polymer photocatalysts with electron-output tentacles for efficient hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 245, 596-603	21.8	101
234	Photochemically Mediated Atom Transfer Radical Polymerization Using Polymeric Semiconductor Mesoporous Graphitic Carbon Nitride. *Macromolecular Chemistry and Physics*, **2014**, 215, 675-681	2.6	99
233	Layered Nanojunctions for Hydrogen-Evolution Catalysis. *Angewandte Chemie*, **2013**, 125, 3709-3713	3.6	99
232	Heteroatom Dopants Promote Two-Electron O Reduction for Photocatalytic Production of H O on Polymeric Carbon Nitride. *Angewandte Chemie - International Edition*, **2020**, 59, 16209-16217	16.4	98
231	Construction of Conjugated Carbon Nitride Nanoarchitectures in Solution at Low Temperatures for Photoredox Catalysis. *Angewandte Chemie*, **2012**, 124, 11984-11988	3.6	98
230	Facile synthesis and enhanced visible-light photocatalysis of graphitic carbon nitride composite semiconductors. *ChemSusChem*, **2015**, 8, 1189-96	8.3	97
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