Wonyong Choi

List of Publications by Year in Descending Order

340 papers	48,877 citations	100 h-index	216 g-index
419 ext. papers	53,268 ext. citations	10.7 avg, IF	7.95 L-index

#	Paper	IF	Citations
340	Fe2O3 nanorods on carbon nanofibers induce spontaneous reductive transformation of inorganic contaminants in ambient aerated water. *Chemical Engineering Journal*, **2022**, 429, 132108	14.7	0
339	Freezing-induced activation of the binary chloride-Oxone system to free chlorine and its application in water treatment. *Chemical Engineering Journal*, **2022**, 428, 131134	14.7	0
338	Synergistic Coupling of Fe2O3 and Carbon Paper that Enables Photocatalytic Mineralization of Organic Contaminants in the Absence of Chemical Oxidants under Visible Light. *ACS ES&T Engineering*, **2022**, 2, 232-241		0
337	High-Valent Iron Redox-Mediated Photoelectrochemical Water Oxidation. *ACS Energy Letters*, **2022**, 7, 59-66	20.1	2
336	Inorganic Oxide Semiconductors for Environmental Photocatalysis. *Springer Handbooks*, **2022**, 1663-1684	1.3	
335	Self-wetting triphase photocatalysis for effective and selective removal of hydrophilic volatile organic compounds in air. *Nature Communications*, **2021**, 12, 6259	17.4	10
334	Photoelectrocatalysis as a high-efficiency platform for pulping wastewater treatment and energy production. *Chemical Engineering Journal*, **2021**, 412, 128612	14.7	18
333	Photocatalytic air purification mimicking the self-cleaning process of the atmosphere. *Nature Communications*, **2021**, 12, 2528	17.4	30
332	Crystal phase-dependent generation of mobile OH radicals on TiO2: Revisiting the photocatalytic oxidation mechanism of anatase and rutile. *Applied Catalysis B: Environmental*, **2021**, 286, 119905	21.8	28
331	Mechanistic analysis of multiple processes controlling solar-driven HO synthesis using engineered polymeric carbon nitride. *Nature Communications*, **2021**, 12, 3701	17.4	35
330	Quantitative Photoelectrochemical Conversion of Ammonium to Dinitrogen Using a Bromide-Mediated Redox Cycle. *ACS ES&T Engineering*, **2021**, 1, 1287-1297		5
329	Photoconversion of Cyanide to Dinitrogen Using the Durable Electrode of a TaON Overlayer-Deposited WO3 Film and Visible Light. *ACS ES&T Engineering*, **2021**, 1, 228-238		8
328	Photocatalytic activity enhancement of PDI supermolecular via □action and energy level adjusting with graphene quantum dots. *Applied Catalysis B: Environmental*, **2021**, 281, 119547	21.8	46
327	Complexes of Fe(III)-organic pollutants that directly activate Fenton-like processes under visible light. *Applied Catalysis B: Environmental*, **2021**, 283, 119663	21.8	35
326	Solar photoelectrochemical synthesis of electrolyte-free H2O2 aqueous solution without needing electrical bias and H2. *Energy and Environmental Science*, **2021**, 14, 3110-3119	35.4	12
325	Synergistic effect of Sn doping and hydrogenation on hematite electrodes for photoelectrochemical water oxidation. *Materials Chemistry Frontiers*, **2021**, 5, 6592-6602	7.8	1
324	Fouling of TiO2 induced by natural organic matters during photocatalytic water treatment: Mechanisms and regeneration strategy. *Applied Catalysis B: Environmental*, **2021**, 294, 120252	21.8	15

323	Photocatalytic production of H2O2 from water and dioxygen only under visible light using organic polymers: Systematic study of the effects of heteroatoms. *Applied Catalysis B: Environmental*, **2021**, 299, 120666	21.8	6
322	Cr(VI) Formation via Oxyhalide-Induced Oxidative Dissolution of Chromium Oxide/Hydroxide in Aqueous and Frozen Solution. *Environmental Science & Technology*, **2020**, 54, 14413-14421	10.3	3
321	Heteroatom Dopants Promote Two-Electron O2 Reduction for Photocatalytic Production of H2O2 on Polymeric Carbon Nitride. *Angewandte Chemie*, **2020**, 132, 16343-16351	3.6	7
320	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
319	Selective electroreduction of CO to acetone by single copper atoms anchored on N-doped porous carbon. *Nature Communications*, **2020**, 11, 2455	17.4	121
318	Confronting Racism in Chemistry Journals. *ACS Applied Nano Materials*, **2020**, 3, 6131-6133	5.6	
317	Confronting Racism in Chemistry Journals. *ACS Applied Polymer Materials*, **2020**, 2, 2496-2498	4.3	
316	Confronting Racism in Chemistry Journals. *Organometallics*, **2020**, 39, 2331-2333	3.8	
315	Photocatalytic activity enhanced via surface hybridization **2020**, 2, 308-349		25
314	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO film. *Nature Communications*, **2020**, 11, 967	17.4	34
313	Nafion-Assisted Noncovalent Assembly of Molecular Sensitizers and Catalysts for Sustained Photoreduction of CO2 to CO. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3709-3717	8.3	6
312	Highly durable photoelectrochemical H2O2 production via dual photoanode and cathode processes under solar simulating and external bias-free conditions. *Energy and Environmental Science*, **2020**, 13, 1730-1742	35.4	37
311	Freezing-enhanced non-radical oxidation of organic pollutants by peroxymonosulfate. *Chemical Engineering Journal*, **2020**, 388, 124226	14.7	11
310	Confronting Racism in Chemistry Journals. *Journal of Chemical Health and Safety*, **2020**, 27, 198-200	1.7	
309	Substrate-specific mineralization and deactivation behaviors of TiO2 as an air-cleaning photocatalyst. *Applied Catalysis B: Environmental*, **2020**, 275, 119145	21.8	31
308	Spontaneous oxidation of arsenite on platinized TiO2 through activating molecular oxygen under ambient aqueous condition. *Applied Catalysis B: Environmental*, **2020**, 260, 118146	21.8	9
307	A highly active, robust photocatalyst heterogenized in discrete cages of metal□rganic polyhedra for CO2 reduction. *Energy and Environmental Science*, **2020**, 13, 519-526	35.4	35
306	Single-atom platinum confined by the interlayer nanospace of carbon nitride for efficient photocatalytic hydrogen evolution. *Nano Energy*, **2020**, 69, 104409	17.1	97

305	Entangled iodine and hydrogen peroxide formation in ice. *Physical Chemistry Chemical Physics*, **2020**, 22, 16532-16535	3.6	
304	Holey Pt Nanosheets on NiFe-Hydroxide Laminates: Synergistically Enhanced Electrocatalytic 2D Interface toward Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 10578-10588	16.7	30
303	How g-CN Works and Is Different from TiO as an Environmental Photocatalyst: Mechanistic View. *Environmental Science & Technology*, **2020**, 54, 497-506	10.3	33
302	Halide-induced dissolution of lead(IV) oxide in frozen solution. *Journal of Hazardous Materials*, **2020**, 384, 121298	12.8	2
301	Production of Reactive Oxygen Species by the Reaction of Periodate and Hydroxylamine for Rapid Removal of Organic Pollutants and Waterborne Bacteria. *Environmental Science & Technology*, **2020**, 54, 6427-6437	10.3	40
300	Two-dimensional materials in semiconductor photoelectrocatalytic systems for water splitting. *Energy and Environmental Science*, **2019**, 12, 59-95	35.4	244
299	Understanding the relative efficacies and versatile roles of 2D conductive nanosheets in hybrid-type photocatalyst. *Applied Catalysis B: Environmental*, **2019**, 257, 117875	21.8	14
298	Two-dimensional RuO2 nanosheets as robust catalysts for peroxymonosulfate activation. *Environmental Science: Nano*, **2019**, 6, 2084-2093	7.1	22
297	Abiotic Formation of Humic-Like Substances through Freezing-Accelerated Reaction of Phenolic Compounds and Nitrite. *Environmental Science & Technology*, **2019**, 53, 7410-7418	10.3	10
296	Simultaneous and Synergic Production of Bioavailable Iron and Reactive Iodine Species in Ice. *Environmental Science & Technology*, **2019**, 53, 7355-7362	10.3	13
295	Nitrite-Induced Activation of Iodate into Molecular Iodine in Frozen Solution. *Environmental Science & Technology*, **2019**, 53, 4892-4900	10.3	16
294	Triplet-Triplet Annihilation Upconversion in Broadly Absorbing Layered Film Systems for Sub-Bandgap Photocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 13304-13318	9.5	21
293	Spontaneous Generation of HO and Hydroxyl Radical through O Reduction on Copper Phosphide under Ambient Aqueous Condition. *Environmental Science & Technology*, **2019**, 53, 2918-2925	10.3	51
292	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. *Nature Communications*, **2019**, 10, 940	17.4	191
291	Organometallic Iridium(III) Complex Sensitized Ternary Hybrid Photocatalyst for CO to CO Conversion. *Chemistry - A European Journal*, **2019**, 25, 13609-13623	4.8	13
290	Ambient-temperature catalytic degradation of aromatic compounds on iron oxide nanorods supported on carbon nanofiber sheet. *Applied Catalysis B: Environmental*, **2019**, 259, 118066	21.8	15
289	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO2 system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. *Applied Catalysis B: Environmental*, **2019**, 257, 117912	21.8	56
288	In Situ Photoelectrochemical Chloride Activation Using a WO Electrode for Oxidative Treatment with Simultaneous H Evolution under Visible Light. *Environmental Science & Technology*, **2019**, 53, 9926-9936	10.3	43

287	Alkali-metal-oxides coated ultrasmall Pt sub-nanoparticles loading on intercalated carbon nitride: Enhanced charge interlayer transportation and suppressed backwark reaction for overall water splitting. *Journal of Catalysis*, **2019**, 377, 72-80	7.3	17
286	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAM-Chem Global Chemistry-Climate Model. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 2259-2289	7.1	17
285	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. *Environmental Science: Nano*, **2019**, 6, 3185-3214	7.1	74
284	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. *Environmental Science & Technology*, **2019**, 53, 2937-2947	10.3	277
283	Air-water interfacial fluidic sonolysis in superhydrophobic silicon-nanowire-embedded system for fast water treatment. *Chemical Engineering Journal*, **2019**, 358, 1594-1600	14.7	8
282	Electrocatalytic cogeneration of reactive oxygen species for synergistic water treatment. *Chemical Engineering Journal*, **2019**, 358, 497-503	14.7	9
281	Homogeneous photocatalytic Fe/Fe redox cycle for simultaneous Cr(VI) reduction and organic pollutant oxidation: Roles of hydroxyl radical and degradation intermediates. *Journal of Hazardous Materials*, **2019**, 372, 121-128	12.8	50
280	Enhanced photocatalytic mechanism of Ag3PO4 nano-sheets using MS2 (M = Mo, W)/rGO hybrids as co-catalysts for 4-nitrophenol degradation in water. *Applied Catalysis B: Environmental*, **2018**, 232, 11-18	21.8	59
279	Interaction Between Metal–Organic Framework and Reduced Graphene Oxide for Visible-Light Photocatalytic H2 Production. *ACS Applied Energy Materials*, **2018**, 1, 1913-1923	6.1	103
278	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. *ACS Catalysis*, **2018**, 8, 4241-4256	13.1	84
277	Activation of peroxymonosulfate on visible light irradiated TiO2 via a charge transfer complex path. *Chemical Engineering Journal*, **2018**, 346, 249-257	14.7	51
276	Mechanisms of Photocatalytic Molecular Hydrogen and Molecular Oxygen Evolution over La-Doped NaTaO3 Particles: Effect of Different Cocatalysts and Their Specific Activity. *ACS Catalysis*, **2018**, 8, 2313-2325	13.1	35
275	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. *Applied Catalysis B: Environmental*, **2018**, 229, 121-129	21.8	96
274	Selective charge transfer to dioxygen on KPF6-modified carbon nitride for photocatalytic synthesis of H2O2 under visible light. *Journal of Catalysis*, **2018**, 357, 51-58	7.3	62
273	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. *Applied Catalysis B: Environmental*, **2018**, 237, 432-441	21.8	91
272	Active {001} Facet Exposed TiO Nanotubes Photocatalyst Filter for Volatile Organic Compounds Removal: From Material Development to Commercial Indoor Air Cleaner Application. *Environmental Science & Technology*, **2018**, 52, 9330-9340	10.3	89
271	A novel strategy to develop non-noble metal catalyst for CO2 electroreduction: Hybridization of metal-organic polymer. *Applied Catalysis B: Environmental*, **2018**, 236, 154-161	21.8	30
270	Hydrogenated heterojunction of boron nitride and titania enables the photocatalytic generation of H2 in the absence of noble metal catalysts. *Applied Catalysis B: Environmental*, **2018**, 237, 772-782	21.8	29

269	Visible light-induced catalytic activation of peroxymonosulfate using heterogeneous surface complexes of amino acids on TiO2. *Applied Catalysis B: Environmental*, **2018**, 225, 406-414	21.8	32
268	Visible light-photosensitized oxidation of organic pollutants using amorphous peroxo-titania. *Applied Catalysis B: Environmental*, **2018**, 225, 487-495	21.8	22
267	Dual-components modified TiO2 with Pt and fluoride as deactivation-resistant photocatalyst for the degradation of volatile organic compound. *Applied Catalysis B: Environmental*, **2018**, 220, 1-8	21.8	92
266	Ligand-Specific Dissolution of Iron Oxides in Frozen Solutions. *Environmental Science & Technology*, **2018**, 52, 13766-13773	10.3	15
265	Dual-Functional Photocatalytic and Photoelectrocatalytic Systems for Energy- and Resource-Recovering Water Treatment. *ACS Catalysis*, **2018**, 8, 11542-11563	13.1	90
264	Electron shuttling catalytic effect of mellitic acid in zero-valent iron induced oxidative degradation. *Catalysis Today*, **2017**, 282, 65-70	5.3	7
263	Electrocatalytic activities of Sb-SnO2 and Bi-TiO2 anodes for water treatment: Effects of electrocatalyst composition and electrolyte. *Catalysis Today*, **2017**, 282, 57-64	5.3	25
262	Poly(4-vinylphenol) as a new stable and metal-free sensitizer of titania for visible light photocatalysis through ligand-to-metal charge transfer process. *Catalysis Today*, **2017**, 281, 109-116	5.3	14
261	Sequential Process Combination of Photocatalytic Oxidation and Dark Reduction for the Removal of Organic Pollutants and Cr(VI) using Ag/TiO. *Environmental Science & Technology*, **2017**, 51, 3973-3981	10.3	149
260	Estimation of greenhouse gas emissions from sewer pipeline system. *International Journal of Life Cycle Assessment*, **2017**, 22, 1901-1911	4.6	9
259	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie*, **2017**, 129, 6683-6688	3.6	15
258	Investigating the Unrevealed Photocatalytic Activity and Stability of Nanostructured Brookite TiO Film as an Environmental Photocatalyst. *ACS Applied Materials & Interfaces*, **2017**, 9, 16252-16260	9.5	46
257	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2017**, 56, 6583-6588	16.4	53
256	Photoelectrochemical Degradation of Organic Compounds Coupled with Molecular Hydrogen Generation Using Electrochromic TiO Nanotube Arrays. *Environmental Science & Technology*, **2017**, 51, 6590-6598	10.3	88
255	Highly efficient hydrogen production using p-Si wire arrays and NiMoZn heterojunction photocathodes. *Applied Catalysis B: Environmental*, **2017**, 217, 615-621	21.8	11
254	Photocatalytic conversion of acetate into molecular hydrogen and hydrocarbons over Pt/TiO 2 : pH dependent formation of Kolbe and Hofer-Moest products. *Journal of Catalysis*, **2017**, 349, 128-135	7.3	25
253	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
252	Freestanding doubly open-ended TiO2 nanotubes for efficient photocatalytic degradation of volatile organic compounds. *Applied Catalysis B: Environmental*, **2017**, 205, 386-392	21.8	60

251	TiO2 complexed with dopamine-derived polymers and the visible light photocatalytic activities for water pollutants. *Journal of Catalysis*, **2017**, 346, 92-100	7.3	53
250	Distorted Carbon Nitride Structure with Substituted Benzene Moieties for Enhanced Visible Light Photocatalytic Activities. *ACS Applied Materials & Interfaces*, **2017**, 9, 40360-40368	9.5	50
249	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
248	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO2. *Journal of Materials Chemistry A*, **2017**, 5, 21883-21892	13	52
247	Synergistic combination of bandgap-modified carbon nitride and WO3 for visible light-induced oxidation of arsenite accelerated by in-situ Fenton reaction. *Applied Catalysis B: Environmental*, **2017**, 218, 819-824	21.8	43
246	Accelerated Reduction of Bromate in Frozen Solution. *Environmental Science & Technology*, **2017**, 51, 8368-8375	10.3	20
245	Visible light sensitization of TiO2 nanoparticles by a dietary pigment, curcumin, for environmental photochemical transformations. *RSC Advances*, **2017**, 7, 32488-32495	3.7	25
244	Vertically Aligned Core–Shell PbTiO3@TiO2 Heterojunction Nanotube Array for Photoelectrochemical and Photocatalytic Applications. *Journal of Physical Chemistry C*, **2017**, 121, 15063-15070	3.8	32
243	Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. *Nano Energy*, **2017**, 39, 211-218	17.1	116
242	Dual modification of hematite photoanode by Sn-doping and Nb2O5 layer for water oxidation. *Applied Catalysis B: Environmental*, **2017**, 201, 591-599	21.8	32
241	Photoelectrochemical hydrogen production on silicon microwire arrays overlaid with ultrathin titanium nitride. *Journal of Materials Chemistry A*, **2016**, 4, 14008-14016	13	22
240	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO3 for the Decomposition of Volatile Organic Compounds under Visible Light. *ACS Catalysis*, **2016**, 6, 8350-8360	13.1	81
239	Selective dual-purpose photocatalysis for simultaneous H2 evolution and mineralization of organic compounds enabled by a Cr2O3 barrier layer coated on Rh/SrTiO3. *Chemical Communications*, **2016**, 52, 9636-9	5.8	34
238	Harnessing low energy photons (635 nm) for the production of H2O2 using upconversion nanohybrid photocatalysts. *Energy and Environmental Science*, **2016**, 9, 1063-1073	35.4	111
237	TiO2 Nanotubes with Open Channels as Deactivation-Resistant Photocatalyst for the Degradation of Volatile Organic Compounds. *Environmental Science & Technology*, **2016**, 50, 2556-63	10.3	184
236	Production of Molecular Iodine and Tri-iodide in the Frozen Solution of Iodide: Implication for Polar Atmosphere. *Environmental Science & Technology*, **2016**, 50, 1280-7	10.3	50
235	Anodic TiO2 nanotube layer directly formed on the inner surface of Ti pipe for a tubular photocatalytic reactor. *Applied Catalysis A: General*, **2016**, 521, 174-181	5.1	9
234	Boosting up the Low Catalytic Activity of Silver for H2 Production on Ag/TiO2 Photocatalyst: Thiocyanate as a Selective Modifier. *ACS Catalysis*, **2016**, 6, 821-828	13.1	133

233	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO2. *Energy and Environmental Science*, **2016**, 9, 411-433	35.4	414
232	Fabrication of superior □Fe2O3 nanorod photoanodes through ex-situ Sn-doping for solar water splitting. *Solar Energy Materials and Solar Cells*, **2016**, 144, 247-255	6.4	81
231	Bicarbonate-induced activation of H□□ for metal-free oxidative desulfurization. *Journal of Hazardous Materials*, **2016**, 304, 313-9	12.8	43
230	Scaffold-Like Titanium Nitride Nanotubes with a Highly Conductive Porous Architecture as a Nanoparticle Catalyst Support for Oxygen Reduction. *ACS Catalysis*, **2016**, 6, 3914-3920	13.1	42
229	Heterogeneous photocatalytic organic synthesis: state-of-the-art and future perspectives. *Green Chemistry*, **2016**, 18, 5391-5411	10	239
228	Visible Light Sensitized Production of Hydroxyl Radicals Using Fullerol as an Electron-Transfer Mediator. *Environmental Science & Technology*, **2016**, 50, 10545-10553	10.3	28
227	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. *Environmental Science & Technology*, **2016**, 50, 10134-42	10.3	361
226	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. *Environmental Science & Technology*, **2016**, 50, 11184-11192	10.3	45
225	LiOH-embedded zeolite for carbon dioxide capture under ambient conditions. *Journal of Industrial and Engineering Chemistry*, **2015**, 22, 350-356	6.3	20
224	Heterogeneous catalytic oxidation of As(III) on nonferrous metal oxides in the presence of H2O2. *Environmental Science & Technology*, **2015**, 49, 3506-13	10.3	84
223	Photosynthesis of formate from CO2 and water at 1% energy efficiency via copper iron oxide catalysis. *Energy and Environmental Science*, **2015**, 8, 2638-2643	35.4	168
222	Weak magnetic field accelerates chromate removal by zero-valent iron. *Journal of Environmental Sciences*, **2015**, 31, 175-83	6.4	54
221	Enhanced photocatalytic activity of {101}-oriented bipyramidal TiO2 agglomerates through interparticle charge transfer. *Applied Catalysis B: Environmental*, **2015**, 176-177, 76-82	21.8	23
220	Freezing-Enhanced Dissolution of Iron Oxides: Effects of Inorganic Acid Anions. *Environmental Science & Technology*, **2015**, 49, 12816-22	10.3	31
219	Dual-functional photocatalysis using a ternary hybrid of TiO2 modified with graphene oxide along with Pt and fluoride for H2-producing water treatment. *Journal of Catalysis*, **2015**, 330, 387-395	7.3	47
218	Enhanced Removal of Hexavalent Chromium in the Presence of H2O2 in Frozen Aqueous Solutions. *Environmental Science & Technology*, **2015**, 49, 10937-44	10.3	36
217	Singlet-Oxygen Generation in Alkaline Periodate Solution. *Environmental Science & Technology*, **2015**, 49, 14392-400	10.3	102
216	To What Extent Can Surface Morphology Influence the Photoelectrochemical Performance of Au:WO3 Electrodes?. *Journal of Physical Chemistry C*, **2015**, 119, 1271-1279	3.8	19

215	Squaraine-sensitized composite of a reduced graphene oxide/TiO2 photocatalyst: stacking as a new method of dye anchoring. *Journal of Materials Chemistry A*, **2015**, 3, 232-239	13	21
214	Glucose TiO 2 charge transfer complex-mediated photocatalysis under visible light. *Applied Catalysis B: Environmental*, **2015**, 162, 463-469	21.8	69
213	N-doped TiO2 nanotubes coated with a thin TaOxNy layer for photoelectrochemical water splitting: dual bulk and surface modification of photoanodes. *Energy and Environmental Science*, **2015**, 8, 247-257	35.4	131
212	TiO2 nanotube array photoelectrocatalyst and Ni-Sb-SnO2 electrocatalyst bifacial electrodes: a new type of bifunctional hybrid platform for water treatment. *ACS Applied Materials & Interfaces*, **2015**, 7, 1907-14	9.5	55
211	Inhibition of CO poisoning on Pt catalyst coupled with the reduction of toxic hexavalent chromium in a dual-functional fuel cell. *Scientific Reports*, **2014**, 4, 7450	4.9	52
210	Visible light photocatalysis of fullerol-complexed TiO2 enhanced by Nb doping. *Applied Catalysis B: Environmental*, **2014**, 152-153, 233-240	21.8	79
209	Visible light driven photocatalysis mediated via ligand-to-metal charge transfer (LMCT): an alternative approach to solar activation of titania. *Energy and Environmental Science*, **2014**, 7, 954	35.4	293
208	Platinum-like Behavior of Reduced Graphene Oxide as a Cocatalyst on TiO2 for the Efficient Photocatalytic Oxidation of Arsenite. *Environmental Science and Technology Letters*, **2014**, 1, 185-190	11	101
207	Review of iron-free Fenton-like systems for activating H2O2 in advanced oxidation processes. *Journal of Hazardous Materials*, **2014**, 275, 121-35	12.8	1271
206	Oxidation of aquatic pollutants by ferrous-oxalate complexes under dark aerobic conditions. *Journal of Hazardous Materials*, **2014**, 274, 79-86	12.8	23
205	Electrochromic titania nanotube arrays for the enhanced photocatalytic degradation of phenol and pharmaceutical compounds. *Chemical Engineering Journal*, **2014**, 249, 285-292	14.7	54
204	Graphene oxide embedded into TiO2 nanofiber: Effective hybrid photocatalyst for solar conversion. *Journal of Catalysis*, **2014**, 309, 49-57	7.3	71
203	C60 aminofullerene-magnetite nanocomposite designed for efficient visible light photocatalysis and magnetic recovery. *Carbon*, **2014**, 69, 92-100	10.4	21
202	Solar production of H2O2 on reduced graphene oxide TiO2 hybrid photocatalysts consisting of earth-abundant elements only. *Energy and Environmental Science*, **2014**, 7, 4023-4028	35.4	211
201	Blue TiO2 Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. *Electrochimica Acta*, **2014**, 141, 113-119	6.7	70
200	Dye decolorization test for the activity assessment of visible light photocatalysts: Realities and limitations. *Catalysis Today*, **2014**, 224, 21-28	5.3	97
199	Visible light photocatalytic activities of nitrogen and platinum-doped TiO2: Synergistic effects of co-dopants. *Applied Catalysis B: Environmental*, **2014**, 147, 642-650	21.8	61
198	Arsenite oxidation initiated by the UV photolysis of nitrite and nitrate. *Environmental Science & Technology*, **2014**, 48, 4030-7	10.3	62

197	Weak magnetic field significantly enhances selenite removal kinetics by zero valent iron. *Water Research*, **2014**, 49, 371-80	12.5	141
196	Molecular-Level Understanding of the Photocatalytic Activity Difference between Anatase and Rutile Nanoparticles. *Angewandte Chemie*, **2014**, 126, 14260-14265	3.6	22
195	Molecular-level understanding of the photocatalytic activity difference between anatase and rutile nanoparticles. *Angewandte Chemie - International Edition*, **2014**, 53, 14036-41	16.4	121
194	Heterogeneous photocatalytic treatment of pharmaceutical micropollutants: Effects of wastewater effluent matrix and catalyst modifications. *Applied Catalysis B: Environmental*, **2014**, 147, 8-16	21.8	107
193	Synergic photocatalytic effects of nitrogen and niobium co-doping in TiO2 for the redox conversion of aquatic pollutants under visible light. *Journal of Catalysis*, **2014**, 310, 91-99	7.3	69
192	Ruthenium(II) complexes incorporating the bidentate ligand containing an imidazolium moiety: synthesis, characterization, and electrochemical properties and their application in a visible-light induced hydrogen-evolving system. *New Journal of Chemistry*, **2013**, 37, 3174	3.6	15
191	TiO2 nanodisks designed for Li-ion batteries: a novel strategy for obtaining an ultrathin and high surface area anode material at the ice interface. *Energy and Environmental Science*, **2013**, 6, 2932	35.4	90
190	Promoting water photooxidation on transparent WO3 thin films using an alumina overlayer. *Energy and Environmental Science*, **2013**, 6, 3732	35.4	113
189	Graphitic domain layered titania nanotube arrays for separation and shuttling of solar-driven electrons. *Journal of Materials Chemistry A*, **2013**, 1, 203-207	13	6
188	Catalytic templating approaches for three-dimensional hollow carbon/graphene oxide nano-architectures. *Nanoscale*, **2013**, 5, 6291-6	7.7	30
187	Photooxidation of arsenite under 254 nm irradiation with a quantum yield higher than unity. *Environmental Science & Technology*, **2013**, 47, 9381-7	10.3	54
186	Surface modification of TiO2 photocatalyst for environmental applications. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2013**, 15, 1-20	16.4	704
185	Strategic Modification of BiVO4 for Improving Photoelectrochemical Water Oxidation Performance. *Journal of Physical Chemistry C*, **2013**, 117, 9104-9112	3.8	173
184	Solar water oxidation using nickel-borate coupled BiVO4 photoelectrodes. *Physical Chemistry Chemical Physics*, **2013**, 15, 6499-507	3.6	137
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