Teruhisa Ohno

List of Publications by Citations

84 papers	5,324 citations	28 h-index	72 g-index
89 ext. papers	6,011 ext. citations	7.9 avg, IF	5.85 L-index

#	Paper	IF	Citations
84	Preparation of S-doped TiO2 photocatalysts and their photocatalytic activities under visible light. *Applied Catalysis A: General*, **2004**, 265, 115-121	5.1	1082
83	Photocatalytic Activity of S-doped TiO2Photocatalyst under Visible Light. *Chemistry Letters*, **2003**, 32, 364-365	1.6	800
82	Crystal faces of rutile and anatase TiO2 particles and their roles in photocatalytic reactions. *New Journal of Chemistry*, **2002**, 26, 1167-1170	3.5	653
81	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. *Journal of Physical Chemistry C*, **2009**, 113, 3062-3069	3.7	262
80	Photoelectrochemical CO2 reduction by a p-type boron-doped g-C3N4 electrode under visible light. *Applied Catalysis B: Environmental*, **2016**, 192, 193-198	21.7	221
79	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. *Applied Catalysis A: General*, **2008**, 348, 148-152	5.1	149
78	Degradation of Methylene Blue on Carbonate Species-doped TiO2Photocatalysts under Visible Light. *Chemistry Letters*, **2004**, 33, 750-751	1.6	144
77	Photocatalytic Activity of a TiO2 Photocatalyst Doped with C4+ and S4+ Ions Having a Rutile Phase Under Visible Light. *Catalysis Letters*, **2004**, 98, 255-258	2.7	142
76	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO2 Powders: Comparison with Anatase and Rutile TiO2 Powders. *ACS Catalysis*, **2017**, 7, 2644-2651	12.9	134
75	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. *Applied Catalysis B: Environmental*, **2014**, 150-151, 479-485	21.7	97
74	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. *Nature Catalysis*, **2021**, 4, 374-384	36	96
73	Development of highly efficient sulfur-doped TiO2 photocatalysts hybridized with graphitic carbon nitride. *Applied Catalysis B: Environmental*, **2013**, 142-143, 362-367	21.7	90
72	Formation of new crystal faces on TiO2 particles by treatment with aqueous HF solution or hot sulfuric acid. *New Journal of Chemistry*, **2003**, 27, 1304	3.5	82
71	Morphology control and characterization of broom-like porous CeO2. *Chemical Engineering Journal*, **2015**, 260, 126-132	14.6	73
70	Photocatalytic reduction of CO2 over exposed-crystal-face-controlled TiO2 nanorod having a brookite phase with co-catalyst loading. *Applied Catalysis B: Environmental*, **2014**, 152-153, 309-316	21.7	71
69	Exposed crystal surface-controlled rutile TiO2 nanorods prepared by hydrothermal treatment in the presence of poly(vinyl pyrrolidone). *Applied Catalysis B: Environmental*, **2009**, 91, 634-639	21.7	70
68	Synthesis high specific surface area nanotube g-C3N4 with two-step condensation treatment of melamine to enhance photocatalysis properties. *RSC Advances*, **2015**, 5, 4026-4029	3.6	59

67	Synthesis of Y-doped CeO2/PCN nanocomposited photocatalyst with promoted photoredox performance. *Applied Catalysis B: Environmental*, **2019**, 243, 513-521	21.7	58
66	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. *Journal of Physical Chemistry C*, **2014**, 118, 9093-9100	3.7	54
65	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. *Journal of Physical Chemistry C*, **2011**, 115, 419-424	3.7	54
64	(Au@Ag)@Au double shell nanoparticles loaded on rutile TiO2 for photocatalytic decomposition of 2-propanol under visible light irradiation. *Applied Catalysis B: Environmental*, **2016**, 180, 255-262	21.7	53
63	Improving g-C3N4 photocatalytic performance by hybridizing with Bi2O2CO3 nanosheets. *Catalysis Today*, **2017**, 284, 27-36	5.2	43
62	Improvement of photocatalytic activity of brookite titanium dioxide nanorods by surface modification using chemical etching. *Applied Surface Science*, **2012**, 258, 5803-5809	6.6	43
61	Synthesis and photocatalytic performance of yttrium-doped CeO2 with a porous broom-like hierarchical structure. *Applied Catalysis B: Environmental*, **2016**, 183, 361-370	21.7	42
60	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. *Applied Catalysis B: Environmental*, **2017**, 211, 11-17	21.7	38
59	Bandgap engineering of polymetric carbon nitride copolymerized by 2,5,8-triamino-tri-s-triazine (melem) and barbituric acid for efficient nonsacrificial photocatalytic H2O2 production. *Applied Catalysis B: Environmental*, **2020**, 271, 118917	21.7	33
58	Porous cerium dioxide hollow spheres and their photocatalytic performance. *RSC Advances*, **2014**, 4, 62255-62261	3.6	32
57	Photooxidation of organic compounds in a solution containing hydrogen peroxide and TiO2 particles under visible light. *Journal of Applied Electrochemistry*, **2005**, 35, 793-797	2.6	32
56	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO2under Visible Light. *International Journal of Photoenergy*, **2008**, 2008, 1-7	2.1	28
55	A new precursor to synthesize g-C3N4 with superior visible light absorption for photocatalytic application. *Catalysis Science and Technology*, **2017**, 7, 1826-1830	5.4	27
54	Dependence of photocatalytic activity on aspect ratio of a brookite TiO2 nanorod and drastic improvement in visible light responsibility of a brookite TiO2 nanorod by site-selective modification of Fe3+ on exposed faces. *Journal of Molecular Catalysis A*, **2015**, 396, 261-267		25
53	Design and Synthesis of Sm, Y, La and Nd-doped CeO2 with a broom-like hierarchical structure: a photocatalyst with enhanced oxidation performance. *ChemCatChem*, **2020**, 12, 2638-2646	5.1	25
52	Photoelectrochemical Homocoupling of Methane under Blue Light Irradiation. *ACS Energy Letters*, **2019**, 4, 502-507	19.7	24
51	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO2 by samarium doping and silver QDs anchoring. *Applied Catalysis B: Environmental*, **2021**, 286, 119845	21.7	24
50	Oxygen induced enhancement of NIR emission in brookite TiO powders: comparison with rutile and anatase TiO powders. *Physical Chemistry Chemical Physics*, **2018**, 20, 3241-3248	3.5	23

49	Platinum and indium sulfide-modified Cu3BiS3 photocathode for photoelectrochemical hydrogen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 10450-10456	12.8	22
48	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. *Rare Metals*, **2019**, 38, 468-474	5.4	22
47	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H2O2 production: Pragmatic guidelines for predicting charge separation. *Applied Catalysis B: Environmental*, **2021**, 282, 119589	21.7	22
46	Development of the Visible-Light Response of CeO2− with a high Ce3+ Content and Its Photocatalytic Properties. *ChemCatChem*, **2018**, 10, 1267-1271	5.1	21
45	Development of visible-light-responsive morphology-controlled brookite TiO2 nanorods by site-selective loading of AuAg bimetallic nanoparticles. *Applied Catalysis B: Environmental*, **2019**, 245, 681-690	21.7	19
44	Synthesis of anatase TiO2 with exposed {001} and {101} facets and photocatalytic activity. *Rare Metals*, **2019**, 38, 287-291	5.4	18
43	Improvement of selectivity for CO2 reduction by using Cu2ZnSnS4 electrodes modified with different buffer layers (CdS and In2S3) under visible light irradiation. *RSC Advances*, **2016**, 6, 112594-112601	3.6	17
42	Improvement of Thermoelectric Performance for Sb-Doped SnO2 Ceramics Material by Addition of Cu as Sintering Additive. *Journal of Electronic Materials*, **2014**, 43, 3567-3573	1.9	16
41	Preparation of luminescent polystyrene microspheres via surface-modified route with rare earth (Eu3+ and Tb3+) complexes linked to 2,2?-bipyridine. *Rare Metals*, **2015**, 34, 590-594	5.4	15
40	New approach for synthesis of activated carbon from bamboo. *Journal of Porous Materials*, **2016**, 23, 349-355	2.3	14
39	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. *CrystEngComm*, **2010**, 12, 532-537	3.3	14
38	Visible-light-driven photocatalytic disinfection of raw surface waters (300-5000 CFU/mL) using reusable coated Ru/WO/ZrO. *Journal of Hazardous Materials*, **2021**, 402, 123514	12.7	14
37	Cascade use of bamboo as raw material for several high value products: production of xylo-oligosaccharide and activated carbon for EDLC electrode from bamboo. *Journal of Porous Materials*, **2018**, 25, 1541-1549	2.3	13
36	Fabrication of a porous ZnRh2O4 photocathode for photoelectrochemical water splitting under visible light irradiation and a significant effect of surface modification by ZnO necking treatment. *Journal of Materials Chemistry A*, **2016**, 4, 6116-6123	12.8	12
35	Selective oxidation of benzaldehyde derivatives on TiO2 photocatalysts modified with fluorocarbon group. *Catalysis Letters*, **2005**, 102, 207-210	2.7	11
34	CuO/TiO decorated on cellulose nanofiber/reduced graphene hydrogel for enhanced photocatalytic activity and its antibacterial applications. *Chemosphere*, **2022**, 286, 131731	8.4	11
33	Catalytic Graphitization for Preparation of Porous Carbon Material Derived from Bamboo Precursor and Performance as Electrode of Electrical Double-Layer Capacitor. *Journal of Electronic Materials*, **2015**, 44, 4933-4939	1.9	10
32	Initial step of anthracene-sensitized photoacid generation from diphenyliodonium hexafluorophosphate in an epoxy matrix studied by steady-state and laser-flash photolyses. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 2937-2946	2.6	10

31	Hydrothermally Reduced Graphene Hydrogel Intercalated with Divalent Ions for Dye Adsorption Studies. *Processes*, **2021**, 9, 169	2.9	10
30	Photoelectrochemical water vapor splitting using an ionomer-coated rutile TiO2 thin layer on titanium microfiber felt as an oxygen-evolving photoanode. *Sustainable Energy and Fuels*, **2019**, 3, 2048-2055	5.8	9
29	Fabrication of morphology-controlled TiO2 photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. *Rare Metals*, **2015**, 34, 291-300	5.4	9
28	Development of Visible Light Sensitive TiO2 Photocatalysts and Their Sensitization Using Fe3+ Ions. *Journal of the Japan Petroleum Institute*, **2006**, 49, 168-176	1	9
27	Photochemistry and photocuring properties of thiol-substituted α-aminoalkylphenone as radical photoinitiator. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1684-1695	2.6	9
26	The role of Ce addition in catalytic activity enhancement of TiO-supported Ni for CO methanation reaction.. *RSC Advances*, **2020**, 10, 26952-26971	3.6	9
25	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. *Communications Materials*, **2020**, 1,	5.9	9
24	Photoelectrochemical synthesis of aniline from nitrobenzene in a neutral aqueous solution by using a p-type Cu2ZnSnS4 electrode. *Applied Catalysis B: Environmental*, **2018**, 225, 445-451	21.7	8
23	Solar-driven H2 evolution over CuNb2O6: Effect of two polymorphs (monoclinic and orthorhombic) on optical property and photocatalytic activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 356, 263-271	4.6	8
22	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. *Journal of Catalysis*, **2021**,	7.3	8
21	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. *ChemCatChem*, **2020**, 12, 3783-3792	5.1	7
20	Photocatalytic partial oxidation of methylpyridine isomers on TiO2 particles under an anaerobic condition. *Journal of Applied Electrochemistry*, **2005**, 35, 783-791	2.6	7
19	Accessing effects of aliphatic dicarboxylic acid towards the physical and chemical changes in low temperature hydrothermally reduced graphene hydrogel. *Journal of Porous Materials*, **2021**, 28, 1291	2.3	7
18	Titanium Dioxide/Polyvinyl Alcohol/Cork Nanocomposite: A Floating Photocatalyst for the Degradation of Methylene Blue under Irradiation of a Visible Light Source. *ACS Omega*, **2021**, 6, 14493-14503	3.8	7
17	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. *ChemCatChem*, **2018**, 10, 4269-4273	5.1	6
16	Preparation of Porous Carbon Material Derived from Cellulose with Added Melamine Sulfate and Electrochemical Performance as EDLC Electrode. *Journal of Electronic Materials*, **2019**, 48, 879-886	1.9	6
15	Performance as electrode of electrical double layer capacitor of activated carbon prepared from bamboo using guanidine phosphate and CO2 activation. *Journal of Porous Materials*, **2017**, 24, 1507-1512	2.3	5
14	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.8	5

13	KOH activation of solid residue of Japanese citron after extraction by microwave process and property as EDLC electrode. *Journal of Porous Materials*, **2020**, 27, 727-734	2.3	5
12	Visible-Light-Induced Hydrophilic Conversion of an S-Doped TiO2 Thin Film and Its Photocatalytic Activity for Decomposition of Acetaldehyde in Gas Phase. *Journal of the Ceramic Society of Japan*, **2007**, 115, 310-314		3
11	Visible light-driven H2O2 synthesis by a Cu3BiS3 photocathode via a photoelectrochemical indirect two-electron oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2022**, 307, 121152	21.7	3
10	Photo-sensitive 2D Arrangement of ⁻OH/H2O on Brookite TiO2(210). *Journal of Physical Chemistry C*, **2020**, 124, 19091-19100	3.7	2
9	Inclusion of fullerene in polymer chains grafted on silica nanoparticles in an organic solvent. *Polymer Journal*, **2014**, 46, 623-627	2.7	2
8	Recent Progress in Photocatalytic Efficiency of Hybrid Three-Dimensional (3D) Graphene Architectures for Pollution Remediation. *Topics in Catalysis*,1	2.3	2
7	Colloidal crystallization of C60/polymer-grafted silica particles in organic solvent. *Colloid and Polymer Science*, **2015**, 293, 2075-2081	2.3	1
6	Photocatalytic Synthesis of p-Anisaldehyde in a Mini Slurry-Bubble Reactor under Solar Light Irradiation. *Canadian Journal of Chemical Engineering*, **2020**, 98, 119-126	2.3	0
5	Facile preparation and characterization of luminescent polystyrene composite microspheres. *New Journal of Chemistry*, **2013**, 37, 2133	3.5	
4	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. *Journal of the Ceramic Society of Japan*, **2013**, 121, 187-194	1	
3	Synthesis of carbon nanotube in organic liquids carbon source on La2NiO4 ceramics catalyst. *Journal of the Ceramic Society of Japan*, **2008**, 116, 284-287	1	
2	CVD Synthesis of single-walled carbon nanotubes from CH4 gas by using zeolite. *Tanso*, **2007**, 2007, 310-315	3.1	
1	Synthesis of carbon/limonite composite through CVD method. *Tanso*, **2007**, 2007, 324-328	0.1	