

# Teruhisa Ohno

## List of Publications by Year in Descending Order

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

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	Visible light-driven H <sub>2</sub> O <sub>2</sub> synthesis by a Cu <sub>3</sub> BiS <sub>3</sub> photocathode via a photoelectrochemical indirect two-electron oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 307, 121152	21.8	3
83	CuO/TiO decorated on cellulose nanofiber/reduced graphene hydrogel for enhanced photocatalytic activity and its antibacterial applications. <i>Chemosphere</i> , <b>2022</b> , 286, 131731	8.4	11
82	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. <i>Journal of Catalysis</i> , <b>2021</b> ,	7.3	8
81	Accessing effects of aliphatic dicarboxylic acid towards the physical and chemical changes in low temperature hydrothermally reduced graphene hydrogel. <i>Journal of Porous Materials</i> , <b>2021</b> , 28, 1291	2.4	7
80	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. <i>Nature Catalysis</i> , <b>2021</b> , 4, 374-384	36.5	96
79	Titanium Dioxide/Polyvinyl Alcohol/Cork Nanocomposite: A Floating Photocatalyst for the Degradation of Methylene Blue under Irradiation of a Visible Light Source. <i>ACS Omega</i> , <b>2021</b> , 6, 14493-14503	2.9	7
78	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO <sub>2</sub> by samarium doping and silver QDs anchoring. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119845	21.8	24
77	Visible-light-driven photocatalytic disinfection of raw surface waters (300-5000 CFU/mL) using reusable coated Ru/WO <sub>3</sub> /ZrO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123514	12.8	14
76	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H <sub>2</sub> O <sub>2</sub> production: Pragmatic guidelines for predicting charge separation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119589	21.8	22
75	Hydrothermally Reduced Graphene Hydrogel Intercalated with Divalent Ions for Dye Adsorption Studies. <i>Processes</i> , <b>2021</b> , 9, 169	2.9	10
74	Photo-sensitive 2D Arrangement of OH/H <sub>2</sub> O on Brookite TiO <sub>2</sub> (210). <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19091-19100	3.8	2
73	Bandgap engineering of polymetric carbon nitride copolymerized by 2,5,8-triamino-tri-s-triazine (melem) and barbituric acid for efficient nonsacrificial photocatalytic H <sub>2</sub> O <sub>2</sub> production. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 271, 118917	21.8	33
72	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. <i>ChemCatChem</i> , <b>2020</b> , 12, 3783-3792	5.2	7
71	Design and Synthesis of Sm, Y, La and Nd-doped CeO <sub>2</sub> with a broom-like hierarchical structure: a photocatalyst with enhanced oxidation performance. <i>ChemCatChem</i> , <b>2020</b> , 12, 2638-2646	5.2	25
70	KOH activation of solid residue of Japanese citron after extraction by microwave process and property as EDLC electrode. <i>Journal of Porous Materials</i> , <b>2020</b> , 27, 727-734	2.4	5
69	The role of Ce addition in catalytic activity enhancement of TiO <sub>2</sub> -supported Ni for CO methanation reaction.. <i>RSC Advances</i> , <b>2020</b> , 10, 26952-26971	3.7	9
68	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. <i>Communications Materials</i> , <b>2020</b> , 1,	6	9

67	Photocatalytic Synthesis of p-Anisaldehyde in a Mini Slurry-Bubble Reactor under Solar Light Irradiation. <i>Canadian Journal of Chemical Engineering</i> , <b>2020</b> , 98, 119-126	2.3	0
66	Photoelectrochemical Homocoupling of Methane under Blue Light Irradiation. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 502-507	20.1	24
65	Photoelectrochemical water vapor splitting using an ionomer-coated rutile TiO <sub>2</sub> thin layer on titanium microfiber felt as an oxygen-evolving photoanode. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2048-2055	5.8	9
64	Preparation of Porous Carbon Material Derived from Cellulose with Added Melamine Sulfate and Electrochemical Performance as EDLC Electrode. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 879-886	1.9	6
63	Development of visible-light-responsive morphology-controlled brookite TiO <sub>2</sub> nanorods by site-selective loading of AuAg bimetallic nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 681-690	21.8	19
62	Synthesis of Y-doped CeO <sub>2</sub> /PCN nanocomposited photocatalyst with promoted photoredox performance. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 243, 513-521	21.8	58
61	Synthesis of anatase TiO <sub>2</sub> with exposed {001} and {101} facets and photocatalytic activity. <i>Rare Metals</i> , <b>2019</b> , 38, 287-291	5.5	18
60	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. <i>Rare Metals</i> , <b>2019</b> , 38, 468-474	5.5	22
59	Cascade use of bamboo as raw material for several high value products: production of xylo-oligosaccharide and activated carbon for EDLC electrode from bamboo. <i>Journal of Porous Materials</i> , <b>2018</b> , 25, 1541-1549	2.4	13
58	Photoelectrochemical synthesis of aniline from nitrobenzene in a neutral aqueous solution by using a p-type Cu <sub>2</sub> ZnSnS <sub>4</sub> electrode. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 445-451	21.8	8
57	Solar-driven H <sub>2</sub> evolution over CuNb <sub>2</sub> O <sub>6</sub> : Effect of two polymorphs (monoclinic and orthorhombic) on optical property and photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 356, 263-271	4.7	8
56	Oxygen induced enhancement of NIR emission in brookite TiO powders: comparison with rutile and anatase TiO powders. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3241-3248	3.6	23
55	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. <i>ChemCatChem</i> , <b>2018</b> , 10, 4269-4273	5.2	6
54	Development of the Visible-Light Response of CeO <sub>2-x</sub> with a high Ce <sup>3+</sup> Content and Its Photocatalytic Properties. <i>ChemCatChem</i> , <b>2018</b> , 10, 1267-1271	5.2	21
53	Performance as electrode of electrical double layer capacitor of activated carbon prepared from bamboo using guanidine phosphate and CO <sub>2</sub> activation. <i>Journal of Porous Materials</i> , <b>2017</b> , 24, 1507-1512	2.4	5
52	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO <sub>2</sub> Powders: Comparison with Anatase and Rutile TiO <sub>2</sub> Powders. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2644-2651	13.1	134
51	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 211, 11-17	21.8	38
50	Platinum and indium sulfide-modified Cu <sub>3</sub> BiS <sub>3</sub> photocathode for photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10450-10456	13	22

49	A new precursor to synthesize g-C <sub>3</sub> N <sub>4</sub> with superior visible light absorption for photocatalytic application. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1826-1830	5.5	27
48	Improving g-C <sub>3</sub> N <sub>4</sub> photocatalytic performance by hybridizing with Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanosheets. <i>Catalysis Today</i> , <b>2017</b> , 284, 27-36	5.3	43
47	(Au@Ag)@Au double shell nanoparticles loaded on rutile TiO <sub>2</sub> for photocatalytic decomposition of 2-propanol under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 255-262	21.8	53
46	Fabrication of a porous ZnRh <sub>2</sub> O <sub>4</sub> photocathode for photoelectrochemical water splitting under visible light irradiation and a significant effect of surface modification by ZnO necking treatment. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6116-6123	13	12
45	New approach for synthesis of activated carbon from bamboo. <i>Journal of Porous Materials</i> , <b>2016</b> , 23, 349-355	2.4	14
44	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a porous broom-like hierarchical structure. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 361-370	21.8	42
43	Improvement of selectivity for CO <sub>2</sub> reduction by using Cu <sub>2</sub> ZnSnS <sub>4</sub> electrodes modified with different buffer layers (CdS and In <sub>2</sub> S <sub>3</sub> ) under visible light irradiation. <i>RSC Advances</i> , <b>2016</b> , 6, 112594-112601	3.7	17
42	Photoelectrochemical CO <sub>2</sub> reduction by a p-type boron-doped g-C <sub>3</sub> N <sub>4</sub> electrode under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 193-198	21.8	221
41	Colloidal crystallization of C <sub>60</sub> /polymer-grafted silica particles in organic solvent. <i>Colloid and Polymer Science</i> , <b>2015</b> , 293, 2075-2081	2.4	1
40	Synthesis high specific surface area nanotube g-C <sub>3</sub> N <sub>4</sub> with two-step condensation treatment of melamine to enhance photocatalysis properties. <i>RSC Advances</i> , <b>2015</b> , 5, 4026-4029	3.7	59
39	Dependence of photocatalytic activity on aspect ratio of a brookite TiO <sub>2</sub> nanorod and drastic improvement in visible light responsibility of a brookite TiO <sub>2</sub> nanorod by site-selective modification of Fe <sup>3+</sup> on exposed faces. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 396, 261-267		25
38	Morphology control and characterization of broom-like porous CeO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2015</b> , 260, 126-132	14.7	73
37	Preparation of luminescent polystyrene microspheres via surface-modified route with rare earth (Eu <sup>3+</sup> and Tb <sup>3+</sup> ) complexes linked to 2,2'-bipyridine. <i>Rare Metals</i> , <b>2015</b> , 34, 590-594	5.5	15
36	Fabrication of morphology-controlled TiO <sub>2</sub> photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. <i>Rare Metals</i> , <b>2015</b> , 34, 291-300	5.5	9
35	Catalytic Graphitization for Preparation of Porous Carbon Material Derived from Bamboo Precursor and Performance as Electrode of Electrical Double-Layer Capacitor. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 4933-4939	1.9	10
34	Porous cerium dioxide hollow spheres and their photocatalytic performance. <i>RSC Advances</i> , <b>2014</b> , 4, 62255-62261	3.7	51
33	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9093-9100	3.8	54
32	Improvement of Thermoelectric Performance for Sb-Doped SnO <sub>2</sub> Ceramics Material by Addition of Cu as Sintering Additive. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 3567-3573	1.9	16

31	Photocatalytic reduction of CO <sub>2</sub> over exposed-crystal-face-controlled TiO <sub>2</sub> nanorod having a brookite phase with co-catalyst loading. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 152-153, 309-316	21.8	71
30	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 150-151, 479-485	21.8	97
29	Inclusion of fullerene in polymer chains grafted on silica nanoparticles in an organic solvent. <i>Polymer Journal</i> , <b>2014</b> , 46, 623-627	2.7	2
28	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
27	Development of highly efficient sulfur-doped TiO <sub>2</sub> photocatalysts hybridized with graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 362-367	21.8	90
26	Facile preparation and characterization of luminescent polystyrene composite microspheres. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 2133	3.6	
25	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. <i>Journal of the Ceramic Society of Japan</i> , <b>2013</b> , 121, 187-194	1	
24	Improvement of photocatalytic activity of brookite titanium dioxide nanorods by surface modification using chemical etching. <i>Applied Surface Science</i> , <b>2012</b> , 258, 5803-5809	6.7	43
23	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 419-424	3.8	54
22	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. <i>CrystEngComm</i> , <b>2010</b> , 12, 532-537	3.3	14
21	Exposed crystal surface-controlled rutile TiO <sub>2</sub> nanorods prepared by hydrothermal treatment in the presence of poly(vinyl pyrrolidone). <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 634-639	21.8	70
20	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3062-3069	23.8	262
19	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO <sub>2</sub> under Visible Light. <i>International Journal of Photoenergy</i> , <b>2008</b> , 2008, 1-7	2.1	28
18	Synthesis of carbon nanotube in organic liquids carbon source on La <sub>2</sub> NiO <sub>4</sub> ceramics catalyst. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 284-287	1	
17	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 148-152	5.1	149
16	CVD Synthesis of single-walled carbon nanotubes from CH <sub>4</sub> gas by using zeolite. <i>Tanso</i> , <b>2007</b> , 2007, 310-315		
15	Visible-Light-Induced Hydrophilic Conversion of an S-Doped TiO <sub>2</sub> Thin Film and Its Photocatalytic Activity for Decomposition of Acetaldehyde in Gas Phase. <i>Journal of the Ceramic Society of Japan</i> , <b>2007</b> , 115, 310-314		3
14	Synthesis of carbon/limonite composite through CVD method. <i>Tanso</i> , <b>2007</b> , 2007, 324-328	0.1	

13	Development of Visible Light Sensitive TiO <sub>2</sub> Photocatalysts and Their Sensitization Using Fe <sup>3+</sup> Ions. <i>Journal of the Japan Petroleum Institute</i> , <b>2006</b> , 49, 168-176	1	9
12	Photocatalytic partial oxidation of methylpyridine isomers on TiO <sub>2</sub> particles under an anaerobic condition. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 783-791	2.6	7
11	Photooxidation of organic compounds in a solution containing hydrogen peroxide and TiO <sub>2</sub> particles under visible light. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 793-797	2.6	32
10	Selective oxidation of benzaldehyde derivatives on TiO <sub>2</sub> photocatalysts modified with fluorocarbon group. <i>Catalysis Letters</i> , <b>2005</b> , 102, 207-210	2.8	11
9	Photochemistry and photocuring properties of thiol-substituted aminoalkylphenone as radical photoinitiator. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1684-1695	2.6	9
8	Preparation of S-doped TiO <sub>2</sub> photocatalysts and their photocatalytic activities under visible light. <i>Applied Catalysis A: General</i> , <b>2004</b> , 265, 115-121	5.1	1082
7	Photocatalytic Activity of a TiO <sub>2</sub> Photocatalyst Doped with C <sup>4+</sup> and S <sup>4+</sup> Ions Having a Rutile Phase Under Visible Light. <i>Catalysis Letters</i> , <b>2004</b> , 98, 255-258	2.8	142
6	Degradation of Methylene Blue on Carbonate Species-doped TiO <sub>2</sub> Photocatalysts under Visible Light. <i>Chemistry Letters</i> , <b>2004</b> , 33, 750-751	1.7	144
5	Photocatalytic Activity of S-doped TiO <sub>2</sub> Photocatalyst under Visible Light. <i>Chemistry Letters</i> , <b>2003</b> , 32, 364-365	1.7	800
4	Formation of new crystal faces on TiO <sub>2</sub> particles by treatment with aqueous HF solution or hot sulfuric acid. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 1304	3.6	82
3	Crystal faces of rutile and anatase TiO <sub>2</sub> particles and their roles in photocatalytic reactions. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 1167-1170	3.6	653
2	Initial step of anthracene-sensitized photoacid generation from diphenyliodonium hexafluorophosphate in an epoxy matrix studied by steady-state and laser-flash photolyses. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 2937-2946	2.6	10
1	Recent Progress in Photocatalytic Efficiency of Hybrid Three-Dimensional (3D) Graphene Architectures for Pollution Remediation. <i>Topics in Catalysis</i> , 1	2.3	2