

# Teruhisa Ohno

## List of Publications by Year in descending order

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88  
papers

6,759  
citations

126858

33  
h-index

60583

81  
g-index

89  
all docs

89  
docs citations

89  
times ranked

7383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of S-doped TiO <sub>2</sub> photocatalysts and their photocatalytic activities under visible light. <i>Applied Catalysis A: General</i> , 2004, 265, 115-121.	2.2	1,177
2	Photocatalytic Activity of S-doped TiO <sub>2</sub> Photocatalyst under Visible Light. <i>Chemistry Letters</i> , 2003, 32, 364-365.	0.7	860
3	Crystal faces of rutile and anatase TiO <sub>2</sub> particles and their roles in photocatalytic reactions. <i>New Journal of Chemistry</i> , 2002, 26, 1167-1170.	1.4	724
4	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. <i>Nature Catalysis</i> , 2021, 4, 374-384.	16.1	474
5	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> , 2016, 192, 193-198.	10.8	292
6	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> , 2009, 113, 3062-3069.	1.5	280
7	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> , 2017, 7, 2644-2651.	5.5	191
8	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> , 2008, 348, 148-152.	2.2	159
9	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> , 2004, 98, 255-258.	1.4	151
10	Degradation of Methylene Blue on Carbonate Species-doped TiO <sub>2</sub> Photocatalysts under Visible Light. <i>Chemistry Letters</i> , 2004, 33, 750-751.	0.7	150
11	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> , 2014, 150-151, 479-485.	10.8	106
12	Development of highly efficient sulfur-doped TiO <sub>2</sub> photocatalysts hybridized with graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 362-367.	10.8	101
13	Morphology control and characterization of broom-like porous CeO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2015, 260, 126-132.	6.6	91
14	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> , 2003, 27, 1304.	1.4	88
15	Synthesis of Y-doped CeO <sub>2</sub> /PCN nanocomposited photocatalyst with promoted photoredox performance. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 513-521.	10.8	88
16	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> , 2014, 152-153, 309-316.	10.8	83
17	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> , 2009, 91, 634-639.	10.8	75
18	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> , 2015, 5, 4026-4029.	1.7	75

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19	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> , 2021, 282, 119589.	10.8	74
20	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> , 2020, 271, 118917.	10.8	72
21	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , 2011, 115, 419-424.	1.5	59
22	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9093-9100.	1.5	59
23	(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> , 2016, 180, 255-262.	10.8	59
24	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a porous broom-like hierarchical structure. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 361-370.	10.8	57
25	Cu <sub>2</sub> O/TiO <sub>2</sub> decorated on cellulose nanofiber/reduced graphene hydrogel for enhanced photocatalytic activity and its antibacterial applications. <i>Chemosphere</i> , 2022, 286, 131731.	4.2	57
26	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> , 2017, 284, 27-36.	2.2	54
27	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> , 2020, 12, 2638-2646.	1.8	51
28	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> , 2021, 286, 119845.	10.8	51
29	Improvement of photocatalytic activity of brookite titanium dioxide nanorods by surface modification using chemical etching. <i>Applied Surface Science</i> , 2012, 258, 5803-5809.	3.1	47
30	Photoelectrochemical Homocoupling of Methane under Blue Light Irradiation. <i>ACS Energy Letters</i> , 2019, 4, 502-507.	8.8	46
31	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 11-17.	10.8	45
32	Porous cerium dioxide hollow spheres and their photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 62255-62261.	1.7	39
33	Development of the Visible-Light Response of CeO <sub>2</sub> with a high Ce <sup>3+</sup> Content and Its Photocatalytic Properties. <i>ChemCatChem</i> , 2018, 10, 1267-1271.	1.8	37
34	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> , 2017, 7, 1826-1830.	2.1	35
35	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> , 2005, 35, 793-797.	1.5	33
36	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> , 2015, 396, 261-267.	4.8	31

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37	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO <sub>2</sub> under Visible Light. International Journal of Photoenergy, 2008, 2008, 1-7.	1.4	30
38	Platinum and indium sulfide-modified Cu <sub>3</sub> BiS <sub>3</sub> photocathode for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 10450-10456.	5.2	30
39	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> . Journal of Hazardous Materials, 2021, 402, 123514.	6.5	29
40	Oxygen induced enhancement of NIR emission in brookite TiO <sub>2</sub> powders: comparison with rutile and anatase TiO <sub>2</sub> powders. Physical Chemistry Chemical Physics, 2018, 20, 3241-3248.	1.3	28
41	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. Rare Metals, 2019, 38, 468-474.	3.6	28
42	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.	1.6	28
43	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. Journal of Catalysis, 2022, 405, 74-83.	3.1	27
44	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. Applied Catalysis B: Environmental, 2022, 307, 121152.	10.8	25
45	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) Tj ETQq1 1 0.7843.174 rgBT / Overlock	1.7	24
46	Development of visible-light-responsive morphology-controlled brookite TiO <sub>2</sub> nanorods by site-selective loading of AuAg bimetallic nanoparticles. Applied Catalysis B: Environmental, 2019, 245, 681-690.	10.8	24
47	Synthesis of anatase TiO <sub>2</sub> with exposed {001} and {101} facets and photocatalytic activity. Rare Metals, 2019, 38, 287-291.	3.6	24
48	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. Communications Materials, 2020, 1, .	2.9	23
49	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.	1.3	20
50	New approach for synthesis of activated carbon from bamboo. Journal of Porous Materials, 2016, 23, 349-355.	1.3	19
51	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. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 263-271.	2.0	19
52	Improvement of Thermoelectric Performance for Sb-Doped SnO <sub>2</sub> Ceramics Material by Addition of Cu as Sintering Additive. Journal of Electronic Materials, 2014, 43, 3567-3573.	1.0	18
53	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. CrystEngComm, 2010, 12, 532-537.	1.3	17
54	Photoelectrochemical water vapor splitting using an ionomer-coated rutile TiO <sub>2</sub> thin layer on titanium microfiber felt as an oxygen-evolving photoanode. Sustainable Energy and Fuels, 2019, 3, 2048-2055.	2.5	17

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55	The role of Ce addition in catalytic activity enhancement of TiO <sub>2</sub> -supported Ni for CO <sub>2</sub> methanation reaction. RSC Advances, 2020, 10, 26952-26971.	1.7	17
56	Hydrothermally Reduced Graphene Hydrogel Intercalated with Divalent Ions for Dye Adsorption Studies. Processes, 2021, 9, 169.	1.3	17
57	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. Rare Metals, 2015, 34, 590-594.	3.6	16
58	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. ChemCatChem, 2020, 12, 3783-3792.	1.8	16
59	Assessing effects of aliphatic dicarboxylic acid towards the physical and chemical changes in low temperature hydrothermally reduced graphene hydrogel. Journal of Porous Materials, 2021, 28, 1291-1300.	1.3	16
60	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. Journal of Materials Chemistry A, 2016, 4, 6116-6123.	5.2	13
61	Selective oxidation of benzaldehyde derivatives on TiO <sub>2</sub> photocatalysts modified with fluorocarbon group. Catalysis Letters, 2005, 102, 207-210.	1.4	12
62	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.	1.0	12
63	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.	2.4	11
64	Photochemistry and photocuring properties of thiol-substituted $\alpha$ -aminoalkylphenone as radical photoinitiator. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1684-1695.	2.4	11
65	Development of Visible Light Sensitive TiO <sub>2</sub> Photocatalysts and Their Sensitization Using Fe <sup>3+</sup> Ions. Journal of the Japan Petroleum Institute, 2006, 49, 168-176.	0.4	11
66	Fabrication of morphology-controlled TiO <sub>2</sub> photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. Rare Metals, 2015, 34, 291-300.	3.6	11
67	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. Applied Catalysis B: Environmental, 2018, 225, 445-451.	10.8	11
68	Recent Progress in Photocatalytic Efficiency of Hybrid Three-Dimensional (3D) Graphene Architectures for Pollution Remediation. Topics in Catalysis, 2022, 65, 1634-1647.	1.3	11
69	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. ChemCatChem, 2018, 10, 4269-4273.	1.8	9
70	Nitrogen and sulfur co-doped CeO <sub>2</sub> nanorods for efficient photocatalytic VOCs degradation. Catalysis Science and Technology, 2022, 12, 5203-5209.	2.1	9
71	Photocatalytic partial oxidation of methylpyridine isomers on TiO <sub>2</sub> particles under an anaerobic condition. Journal of Applied Electrochemistry, 2005, 35, 783-791.	1.5	7
72	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. Journal of Applied Polymer Science, 2014, 131, .	1.3	7

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73	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.	1.0	7
74	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.	1.3	7
75	Performance as electrode of electrical double layer capacitor of activated carbon prepared from bamboo using guanidine phosphate and CO <sub>2</sub> activation. Journal of Porous Materials, 2017, 24, 1507-1512.	1.3	6
76	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. Journal of the Ceramic Society of Japan, 2007, 115, 310-314.	1.3	4
77	Photo-sensitive 2D Arrangement of $\text{OH}/\text{H}_2\text{O}$ on Brookite TiO <sub>2</sub> (210). Journal of Physical Chemistry C, 2020, 124, 19091-19100.	1.5	4
78	Inclusion of fullerene in polymer chains grafted on silica nanoparticles in an organic solvent. Polymer Journal, 2014, 46, 623-627.	1.3	3
79	Functionalized Graphitic Carbon Nitrides for Photocatalytic $\text{H}_2\text{O}_2$ Production: Desired Properties Leading to Rational Catalyst Design. KONA Powder and Particle Journal, 2023, 40, 124-148.	0.9	2
80	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. Journal of the Ceramic Society of Japan, 2013, 121, 187-194.	0.5	1
81	Colloidal crystallization of C <sub>60</sub> /polymer-grafted silica particles in organic solvent. Colloid and Polymer Science, 2015, 293, 2075-2081.	1.0	1
82	Photocatalytic Synthesis of <i>p</i> -Anisaldehyde in a Mini Slurry-Bubble Reactor under Solar Light Irradiation. Canadian Journal of Chemical Engineering, 2020, 98, 119-126.	0.9	1
83	New Method for the Synthesis of a Photocatalyst by Using Intercalation of Amines in K <sub>2</sub> Ti <sub>4</sub> O <sub>9</sub> . Journal of Advanced Oxidation Technologies, 2007, 10, .	0.5	0
84	CVD Synthesis of single-walled carbon nanotubes from CH <sub>4</sub> gas by using zeolite. Tanso, 2007, 2007, 310-315.	0.1	0
85	Synthesis of carbon nanotube in organic liquids carbon source on La <sub>2</sub> NiO <sub>4</sub> ceramics catalyst. Journal of the Ceramic Society of Japan, 2008, 116, 284-287.	0.5	0
86	Facile preparation and characterization of luminescent polystyrene composite microspheres. New Journal of Chemistry, 2013, 37, 2133.	1.4	0
87	Synthesis of carbon/limonite composite through CVD method. Tanso, 2007, 2007, 324-328.	0.1	0
88	A homogeneous copper bismuth sulfide photocathode prepared by spray pyrolysis deposition for efficient photoelectrochemical hydrogen generation. Materials Letters, 2022, 325, 132801.	1.3	0