

Hiroshi Kominami

List of Publications by Year in descending order

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126
papers

5,800
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57758

44
h-index

79698

73
g-index

130
all docs

130
docs citations

130
times ranked

5939
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Au/CeO ₂ Exhibiting Strong Surface Plasmon Resonance Effective for Selective or Chemoselective Oxidation of Alcohols to Aldehydes or Ketones in Aqueous Suspensions under Irradiation by Green Light. <i>Journal of the American Chemical Society</i> , 2012, 134, 14526-14533.	13.7	367
2	Preparation of Au/TiO ₂ with Metal Cocatalysts Exhibiting Strong Surface Plasmon Resonance Effective for Photoinduced Hydrogen Formation under Irradiation of Visible Light. <i>ACS Catalysis</i> , 2013, 3, 79-85.	11.2	304
3	Visible-Light-Induced Hydrogen and Oxygen Formation over Pt/Au/WO ₃ Photocatalyst Utilizing Two Types of Photoabsorption Due to Surface Plasmon Resonance and Band-Gap Excitation. <i>Journal of the American Chemical Society</i> , 2014, 136, 586-589.	13.7	274
4	Quantitative analysis of defective sites in titanium(IV) oxide photocatalyst powders. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 778-783.	2.8	217
5	Correlation between Some Physical Properties of Titanium Dioxide Particles and Their Photocatalytic Activity for Some Probe Reactions in Aqueous Systems. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10501-10507.	2.6	213
6	Synthesis of brookite-type titanium oxide nano-crystals in organic media. <i>Journal of Materials Chemistry</i> , 2000, 10, 1151-1156.	6.7	166
7	Title is missing!. <i>Journal of Materials Chemistry</i> , 2001, 11, 3222-3227.	6.7	161
8	Synthesis of Yttrium Aluminum Garnet by the Glycothermal Method. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1452-1454.	3.8	143
9	Mineralization of organic acids in aqueous suspensions of gold nanoparticles supported on cerium(IV) oxide powder under visible light irradiation. <i>Chemical Communications</i> , 2010, 46, 1287.	4.1	133
10	Functionalization of a plasmonic Au/TiO ₂ photocatalyst with an Ag co-catalyst for quantitative reduction of nitrobenzene to aniline in 2-propanol suspensions under irradiation of visible light. <i>Chemical Communications</i> , 2013, 49, 2551.	4.1	116
11	Selective photocatalytic oxidation of aromatic alcohols to aldehydes in an aqueous suspension of gold nanoparticles supported on cerium(IV) oxide under irradiation of green light. <i>Chemical Communications</i> , 2011, 47, 10446.	4.1	113
12	Mechanism of Photocatalytic Production of Active Oxygens on Highly Crystalline TiO ₂ Particles by Means of Chemiluminescent Probing and ESR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6993-6999.	2.6	109
13	Title is missing!. <i>Catalysis Letters</i> , 2001, 76, 31-34.	2.6	109
14	Femtosecond Diffuse Reflectance Spectroscopy of Aqueous Titanium(IV) Oxide Suspension: Correlation of Electron-Hole Recombination Kinetics with Photocatalytic Activity. <i>Chemistry Letters</i> , 1998, 27, 579-580.	1.3	107
15	Photocatalytic oxidation of nitrogen oxide over titania-zeolite composite catalyst to remove nitrogen oxides in the atmosphere. <i>Applied Catalysis B: Environmental</i> , 2001, 30, 429-436.	20.2	104
16	Simultaneous and Stoichiometric Water Oxidation and Cr(VI) Reduction in Aqueous Suspensions of Functionalized Plasmonic Photocatalyst Au/TiO ₂ -Pt under Irradiation of Green Light. <i>ACS Catalysis</i> , 2013, 3, 1886-1891.	11.2	104
17	Photocatalytic reduction of nitrobenzenes to aminobenzenes in aqueous suspensions of titanium(IV) oxide in the presence of hole scavengers under deaerated and aerated conditions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5114.	2.8	97
18	Functionalization of Au/TiO ₂ Plasmonic Photocatalysts with Pd by Formation of a Core-Shell Structure for Effective Dechlorination of Chlorobenzene under Irradiation of Visible Light. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16983-16989.	3.1	96

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19	Hydrolysis of Titanium Alkoxide in Organic Solvent at High Temperatures: A New Synthetic Method for Nanosized, Thermally Stable Titanium(IV) Oxide. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3925-3931.	3.7	88
20	Novel solvothermal synthesis of niobium(v) oxide powders and their photocatalytic activity in aqueous suspensions. <i>Journal of Materials Chemistry</i> , 2001, 11, 604-609.	6.7	88
21	Selective photocatalytic reduction of nitrate to nitrogen molecules in an aqueous suspension of metal-loaded titanium(iv) oxide particles. <i>Chemical Communications</i> , 2005, , 2933.	4.1	81
22	Stoichiometric production of aminobenzenes and ketones by photocatalytic reduction of nitrobenzenes in secondary alcoholic suspension of titanium(IV) oxide under metal-free conditions. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 193-197.	20.2	78
23	Gold-Titanium(IV) Oxide Plasmonic Photocatalysts Prepared by a Colloid-Photodeposition Method: Correlation Between Physical Properties and Photocatalytic Activities. <i>Langmuir</i> , 2012, 28, 13105-13111.	3.5	77
24	Ultra-highly Active Titanium(IV) Oxide Photocatalyst Prepared by Hydrothermal Crystallization from Titanium(IV) Alkoxide in Organic Solvents. <i>Chemistry Letters</i> , 1995, 24, 693-694.	1.3	75
25	Preparation of Au/TiO ₂ exhibiting strong surface plasmon resonance effective for photoinduced hydrogen formation from organic and inorganic compounds under irradiation of visible light. <i>Catalysis Science and Technology</i> , 2012, 2, 907.	4.1	73
26	Effect of transition metal oxide cocatalyst on the photocatalytic activity of Ag loaded CaTiO ₃ for CO ₂ reduction with water and water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119899.	20.2	73
27	Thermal Transformation of X-Alumina Formed by Thermal Decomposition of Aluminum Alkoxide in Organic Media. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2597-2598.	3.8	71
28	Chemoselective reduction of nitrobenzenes to aminobenzenes having reducible groups by a titanium(iv) oxide photocatalyst under gas- and metal-free conditions. <i>Chemical Communications</i> , 2012, 48, 4356.	4.1	71
29	Gold nanoparticles supported on cerium(IV) oxide powder for mineralization of organic acids in aqueous suspensions under irradiation of visible light of λ=530nm. <i>Applied Catalysis A: General</i> , 2011, 397, 121-126.	4.3	69
30	Synthesis of titanium(IV) oxide of ultra-high photocatalytic activity: high-temperature hydrolysis of titanium alkoxides with water liberated homogeneously from solvent alcohols. <i>Journal of Molecular Catalysis A</i> , 1999, 144, 165-171.	4.8	68
31	Bifunctionality of Rh ³⁺ Modifier on TiO ₂ and Working Mechanism of Rh ³⁺ /TiO ₂ Photocatalyst under Irradiation of Visible Light. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11008-11016.	3.1	67
32	Titanium(IV) oxide photocatalyst of ultra-high activity for selective N-cyclization of an amino acid in aqueous suspensions. <i>Chemical Physics Letters</i> , 1995, 242, 315-319.	2.6	57
33	Photocatalytic decolorization and mineralization of malachite green in an aqueous suspension of titanium(IV) oxide nano-particles under aerated conditions: correlation between some physical properties and their photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 99-104.	3.9	56
34	Photocatalytic Reduction of Nitrobenzene to Aniline in an Aqueous Suspension of Titanium(IV) Oxide Particles in the Presence of Oxalic Acid as a Hole Scavenger and Promotive Effect of Dioxygen in the System. <i>Chemistry Letters</i> , 2009, 38, 410-411.	1.3	53
35	Photocatalytic hydrogen formation from ammonia and methyl amine in an aqueous suspension of metal-loaded titanium(IV) oxide particles. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 297-302.	20.2	53
36	Photocatalytic reduction of benzonitrile to benzylamine in aqueous suspensions of palladium-loaded titanium(iv) oxide. <i>Chemical Communications</i> , 2013, 49, 10911.	4.1	53

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37	Evaluation of electron-hole recombination properties of titanium (IV) oxide particles with high photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2007, 33, 285-296.	2.7	50
38	Thermal Reaction of Aluminum Alkoxide in Glycols. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1100-1102.	3.8	49
39	Title is missing!. <i>Catalysis Letters</i> , 1998, 56, 125-129.	2.6	49
40	Photocatalytic reductive dechlorination of chlorobenzene to benzene in 2-propanol suspension of metal-loaded titanium(IV) oxide nanocrystals in the presence of dissolved sodium hydroxide. <i>Chemical Communications</i> , 2010, 46, 5118.	4.1	49
41	Photocatalytic hydrogenation of alkenes to alkanes in alcoholic suspensions of palladium-loaded titanium(IV) oxide without the use of hydrogen gas. <i>RSC Advances</i> , 2014, 4, 19883-19886.	3.6	48
42	Photocatalytic redox-combined synthesis of L-pipecolic acid from L-lysine by suspended titania particles: effect of noble metal loading on the selectivity and optical purity of the product. <i>Journal of Catalysis</i> , 2003, 217, 152-152.	6.2	45
43	Photocatalytic reduction of nitrite to dinitrogen in aqueous suspensions of metal-loaded titanium(IV) oxide in the presence of a hole scavenger: an ensemble effect of silver and palladium co-catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7965.	2.8	45
44	Photocatalytic Mineralization of Acetic Acid in Aerated Aqueous Suspension of Ultra-highly Active Titanium(IV) Oxide Prepared by Hydrothermal Crystallization in Toluene. <i>Chemistry Letters</i> , 1996, 25, 1051-1052.	1.3	44
45	Copper-Modified Titanium Dioxide: A Simple Photocatalyst for the Chemoselective and Diastereoselective Hydrogenation of Alkynes to Alkenes under Additive-Free Conditions. <i>ChemCatChem</i> , 2016, 8, 2019-2022.	3.7	44
46	Synthesis of Rare-Earth Gallium Garnets by the Glycothermal Method. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1173-1183.	3.8	42
47	Photocatalytic disproportionation of nitrite to dinitrogen and nitrate in an aqueous suspension of metal-loaded titanium(IV) oxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15423.	2.8	42
48	Photocatalytic chemoselective reduction of epoxides to alkenes along with formation of ketones in alcoholic suspensions of silver-loaded titanium(IV) oxide at room temperature without the use of reducing gases. <i>Chemical Communications</i> , 2014, 50, 4558-4560.	4.1	40
49	A very simple method for the preparation of Au/TiO ₂ plasmonic photocatalysts working under irradiation of visible light in the range of 600–700 nm. <i>Chemical Communications</i> , 2017, 53, 4759-4762.	4.1	39
50	A silver–manganese dual co-catalyst for selective reduction of carbon dioxide into carbon monoxide over a potassium hexatitanate photocatalyst with water. <i>Chemical Communications</i> , 2019, 55, 13514-13517.	4.1	39
51	Gold and Copper Nanoparticles Supported on Cerium(IV) Oxide—A Photocatalyst Mineralizing Organic Acids under Red Light Irradiation. <i>ChemCatChem</i> , 2011, 3, 1619-1623.	3.7	38
52	Facet-selective deposition of a silver–manganese dual cocatalyst on potassium hexatitanate photocatalyst for highly selective reduction of carbon dioxide by water. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119085.	20.2	37
53	Selective oxidation of alcohols in aqueous suspensions of rhodium ion-modified TiO ₂ photocatalysts under irradiation of visible light. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12554-12559.	2.8	36
54	Photocatalytic hydrogenation of nitrobenzenes to anilines over noble metal-free TiO ₂ utilizing methylamine as a hydrogen donor. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118446.	20.2	33

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55	Organic Derivatives of Layered Inorganics Having the Second Stage Structure. <i>Chemistry of Materials</i> , 1997, 9, 1614-1619.	6.7	29
56	Stoichiometric decomposition of water by titanium(IV) oxide photocatalyst synthesized in organic media: Effect of synthesis and irradiation conditions on photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4102-4106.	2.8	29
57	Visible light-induced heterogeneous Meerwein-Ponndorf-Verley-type reduction of an aldehyde group over an organically modified titanium dioxide photocatalyst. <i>Chemical Communications</i> , 2017, 53, 4215-4218.	4.1	29
58	Photocatalytic degradation of 2-propanol over metal-ion-loaded titanium(IV) oxide under visible light irradiation: Effect of physical properties of nano-crystalline titanium(IV) oxide. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 206-211.	20.2	28
59	A Pd-Bi Dual-Cocatalyst-Loaded Gallium Oxide Photocatalyst for Selective and Stable Nonoxidative Coupling of Methane. <i>ACS Catalysis</i> , 2021, 11, 13768-13781.	11.2	28
60	Stoichiometric formation of benzene and ketones by photocatalytic dechlorination of chlorobenzene in secondary alcohol suspensions of palladium-loaded titanium(IV) oxide powder in the presence of sodium ion sources. <i>Catalysis Science and Technology</i> , 2011, 1, 586.	4.1	27
61	Photo-oxidation of nitrogen oxide over titanium(IV) oxide modified with platinum or rhodium chlorides under irradiation of visible light or UV light. <i>Catalysis Today</i> , 2009, 144, 37-41.	4.4	25
62	Thermal Decomposition of Titanium Alkoxide and Silicate Ester in Organic Solvent: A New Method for Synthesizing Large Surface Area, Silica Modified Titanium(IV) Oxide of High Thermal Stability. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1178-1180.	3.8	24
63	Ring hydrogenation of aromatic compounds in aqueous suspensions of an Rh-loaded TiO ₂ photocatalyst without use of H ₂ gas. <i>Catalysis Science and Technology</i> , 2018, 8, 139-146.	4.1	23
64	Simultaneous Formation of CO and H ₂ O from CO ₂ and H ₂ O with a Ag-MnO ₂ /CaTiO ₃ Photocatalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 6500-6510.	5.1	20
65	Synthesis of Microcrystalline Hematite and Magnetite in Organic Solvents and Effect of a Small Amount of Water in the Solvents. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1937-1940.	3.8	19
66	Photocatalytic reactions under irradiation of visible light over gold nanoparticles supported on titanium(IV) oxide powder prepared by using a multi-step photodeposition method. <i>Catalysis Science and Technology</i> , 2014, 4, 1931-1938.	4.1	19
67	Simultaneous removal of nitrite and ammonia as dinitrogen in aqueous suspensions of a titanium(IV) oxide photocatalyst under reagent-free and metal-free conditions at room temperature. <i>RSC Advances</i> , 2014, 4, 51576-51579.	3.6	19
68	Chemoselective reduction of nitrobenzenes having other reducible groups over titanium(IV) oxide photocatalyst under protection-, gas-, and metal-free conditions. <i>Tetrahedron</i> , 2014, 70, 6134-6139.	1.9	19
69	Photocatalytic hydrogenation of furan to tetrahydrofuran in alcoholic suspensions of metal-loaded titanium(IV) oxide without addition of hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20206-20212.	2.8	19
70	Visible light-induced diastereoselective semihydrogenation of alkynes to cis-alkenes over an organically modified titanium(IV) oxide photocatalyst having a metal co-catalyst. <i>Journal of Catalysis</i> , 2019, 374, 36-42.	6.2	19
71	Synthesis of Thermally Stable γ -Alumina by Thermal Decomposition of Aluminum Isopropoxide in Toluene. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1543-1549.	3.8	18
72	Visible-light-induced oxidative removal of nitrogen oxides in air by metal chloride-modified titanium(IV) oxide nanoparticles. <i>Research on Chemical Intermediates</i> , 2008, 34, 587-601.	2.7	18

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73	Photocatalytic Degradation of 2-Propanol under Irradiation of Visible Light by Nanocrystalline Titanium(IV) Oxide Modified with Rhodium Ion Using Adsorption Method. <i>Chemistry Letters</i> , 2010, 39, 627-629.	1.3	18
74	Photocatalytic Isomerization of 1-Butene over Palladium-Loaded Titanium(IV) Oxide Particles: Lewis Acid-like Features of the Photocatalyst. <i>ACS Catalysis</i> , 2013, 3, 1349-1355.	11.2	18
75	Photocatalytic Selective Hydrogenation of Furfural to Furfuryl Alcohol over Titanium(IV) Oxide. <i>Chemistry Letters</i> , 2018, 47, 254-256.	1.3	18
76	Hydrogen- and noble metal-free conversion of nitro aromatics to amino aromatics having reducible groups over an organically modified TiO ₂ photocatalyst under visible light irradiation. <i>Catalysis Science and Technology</i> , 2019, 9, 966-973.	4.1	18
77	Crystallization and Transformation of Aluminum Orthophosphates in Organic Solvent Containing a Small Amount of Water. <i>Journal of the American Ceramic Society</i> , 1996, 79, 2506-2508.	3.8	17
78	Photocatalytic deoxygenation of sulfoxides to sulfides over titanium(IV) oxide at room temperature without use of metal co-catalysts. <i>Catalysis Communications</i> , 2014, 54, 100-103.	3.3	17
79	Hydrogen-free ring hydrogenation of phenol to cyclohexanol over a rhodium-loaded titanium(IV) oxide photocatalyst. <i>Applied Catalysis A: General</i> , 2019, 578, 83-88.	4.3	17
80	Meerwein-Ponndorf-Verley-type Reduction over a Metal-free TiO ₂ Photocatalyst in Alcohol: Chemoselective Hydrogenation of Chlorobenzaldehyde to Chlorobenzyl Alcohol. <i>Chemistry Letters</i> , 2016, 45, 985-987.	1.3	15
81	Control of Surface Plasmon Resonance of Au/SnO ₂ by Modification with Ag and Cu for Photoinduced Reactions under Visible Light Irradiation over a Wide Range. <i>Chemistry - A European Journal</i> , 2016, 22, 4592-4599.	3.3	15
82	Titanium(IV) oxide having a copper co-catalyst: a new type of semihydrogenation photocatalyst working efficiently at an elevated temperature under hydrogen-free and poison-free conditions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19321-19325.	2.8	15
83	Dispersion of phosphovanadates on silica gel chemically modified with silane coupling agents having an amino group and their catalytic activities for methanol oxidation. <i>Catalysis Letters</i> , 1996, 37, 229-233.	2.6	13
84	H ₂ O ₂ Oxidation by Ce(IV) Contained Weakley-Type Heteropolyoxometalate for Various Alcohols. <i>Synthetic Communications</i> , 1996, 26, 1663-1668.	2.1	13
85	Metal ion-modified TiO ₂ photocatalysts having controllable oxidative performance under irradiation of visible light. <i>Applied Catalysis A: General</i> , 2016, 521, 202-207.	4.3	13
86	Direct Solvothermal Formation of Nanocrystalline TiO ₂ on Porous SiO ₂ Adsorbent and Photocatalytic Removal of Nitrogen Oxides in Air over TiO ₂ /SiO ₂ Composites. <i>Topics in Catalysis</i> , 2008, 47, 155-161.	2.8	12
87	Accelerated Semihydrogenation of Alkynes over a Copper/Palladium/Titanium(IV) Oxide Photocatalyst Free from Poison and H ₂ Gas. <i>ChemCatChem</i> , 2020, 12, 1609-1616.	3.7	12
88	A ruthenium and palladium bimetallic system superior to a rhodium co-catalyst for TiO ₂ -photocatalyzed ring hydrogenation of aniline to cyclohexylamine. <i>Journal of Catalysis</i> , 2020, 389, 212-217.	6.2	12
89	Photocatalytic reductive dechlorination of chlorobenzene in alkali-free aqueous alcoholic suspensions of palladium-loaded titanium(IV) oxide particles in the absence or presence of oxygen. <i>RSC Advances</i> , 2013, 3, 6058.	3.6	11
90	Solvothermal synthesis of large surface area zirconia. <i>Research on Chemical Intermediates</i> , 1998, 24, 571-579.	2.7	10

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91	Thermal Decomposition of Alkoxides in an Inert Organic Solvent: Novel Method for the Synthesis of Homogeneous Mullite Precursor. <i>Journal of the American Ceramic Society</i> , 1996, 79, 793-795.	3.8	10
92	Photocatalytic mineralization of volatile organic compounds over commercial titanium(IV) oxide modified with rhodium(III) ion under visible light irradiation and correlation between physical properties and photocatalytic activity. <i>Catalysis Today</i> , 2011, 164, 404-409.	4.4	10
93	Homogeneous photocatalytic mineralization of acetic acid in an aqueous solution of iron ion. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 213-219.	20.2	9
94	Heterogeneous Meerwein-Ponndorf-Verley-type Reduction of Aromatic Aldehydes Having Other Reducible Functional Groups over a TiO ₂ Photocatalyst. <i>ChemistrySelect</i> , 2017, 2, 2293-2299.	1.5	9
95	Photocatalytic Selective Ring Hydrogenation of Phenol to Cyclohexanone over a Palladium-Loaded Titanium(IV) Oxide under Hydrogen-Free Conditions. <i>ChemPhotoChem</i> , 2019, 3, 559-567.	3.0	9
96	Deoxygenation of Pyridine N-Oxides in Water at Room Temperature Using TiO ₂ Photocatalyst and Oxalic Acid as a Clean Hydrogen Source. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11412-11418.	3.7	9
97	Effects of the structure of the Rh ³⁺ modifier on photocatalytic performances of an Rh ³⁺ /TiO ₂ photocatalyst under irradiation of visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 340-346.	20.2	8
98	Synthesis of Perovskite-Type Lanthanum Iron Oxide by Glycothermal Reaction of a Lanthanum-Iron Precursor. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2148-2150.	3.8	7
99	Cocatalyst-free Plasmonic H ₂ Production over Au/Ta ₂ O ₅ under Irradiation of Visible Light. <i>Chemistry Letters</i> , 2019, 48, 939-942.	1.3	7
100	Effect of conduction band potential on cocatalyst-free plasmonic H ₂ evolution over Au loaded on Sr ²⁺ -doped CeO ₂ . <i>Catalysis Science and Technology</i> , 2019, 9, 3047-3054.	4.1	7
101	Modification of gold nanoparticles with a hole-transferring cocatalyst: a new strategy for plasmonic water splitting under irradiation of visible light. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3303-3311.	4.9	7
102	Photocatalytic Mineralization of Acetic Acid in Aqueous Suspension of Metal-loaded Cerium(IV) Oxide under Irradiation of Visible Light. <i>Chemistry Letters</i> , 2011, 40, 354-356.	1.3	6
103	Organically modified titania having a metal catalyst: a new type of liquid-phase hydrogen-transfer photocatalyst working under visible light irradiation and H ₂ -free conditions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16076-16079.	2.8	6
104	Photocatalytic Reductive Defluorination of Fluorinated Compounds in Aqueous Alcohol Suspensions of a Metal-Loaded Titanium(IV) Oxide. <i>ChemCatChem</i> , 2020, 12, 3298-3305.	3.7	6
105	Continuous Saponification of Methyl Laurate Using Long Narrow Tubes as a Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1464-1467.	3.7	5
106	Synergy Effect of Photoabsorption due to Band-gap Excitation and Surface Plasmon Resonance on Selective Photocatalytic Oxidation of Alcohols to Ketones and Aldehydes over Silver-deposited Silver Iodide. <i>Chemistry Letters</i> , 2015, 44, 518-520.	1.3	5
107	Photocatalytic chemoselective cleavage of C=O bonds under hydrogen gas- and acid-free conditions. <i>Chemical Communications</i> , 2018, 54, 7298-7301.	4.1	5
108	Additive-free Semihydrogenation of an Alkynyl Group to an Alkenyl Group over Pd-TiO ₂ Photocatalyst Utilizing Temporary In-situ Deactivation. <i>ChemCatChem</i> , 2018, 10, 3605-3611.	3.7	5

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109	Formation of Lanthanum Diacetate Hydroxide by Thermal Treatment of Lanthanum Acetylacetonate Dihydrate in an Organic Solvent Containing a Small Amount of Water.. Journal of the Ceramic Society of Japan, 1999, 107, 682-685.	1.3	4
110	Novel Method for Synthesis of Well-Ordered Crystallized Vanadyl(2+) Hydrogen Phosphate Hemihydrate: Crystallization in Organic Media Containing a Small Amount of Water. Journal of the American Ceramic Society, 1998, 81, 3035-3037.	3.8	4
111	Rapid Saponification of Fatty Acid Methyl Esters with Aqueous Alkali Hydroxide Solutions Using a Long Narrow Tubular Reactor. Topics in Catalysis, 2009, 52, 795-800.	2.8	4
112	Effects of Copper(II) Oxide Addition and Red Light Irradiation on Photocatalytic Activity of Indium Oxide under Irradiation of Visible Light. Chemistry Letters, 2013, 42, 419-421.	1.3	4
113	Controlling the performance of a silver co-catalyst by a palladium core in TiO ₂ -photocatalyzed alkyne semihydrogenation and H ₂ production. Applied Catalysis A: General, 2021, 624, 118331.	4.3	4
114	Glycerol as an excellent hydrogen and electron source for photocatalytic hydrogenation of nitrobenzene in water. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 430, 113963.	3.9	4
115	A simple method for deoxygenation of amine oxides to amines free from precious metals and undesirable reductants: Photocatalytic reaction in alcohol suspensions of TiO ₂ under solar light. Applied Catalysis A: General, 2020, 591, 117412.	4.3	3
116	Bromine Substitution of Organic Modifiers Fixed on a Titanium(IV) Oxide Photocatalyst: A New Strategy Accelerating Visible Light-Induced Hydrogen-Free Hydrogenation of Furfural to Furfuryl Alcohol. ChemCatChem, 2022, 14, .	3.7	3
117	Intercalation of Peroxomolybdate (VI) Anion into Layered Double Hydroxide and Its Reversible Transformation to Oxomolybdate (VI) Anion. Journal of the Ceramic Society of Japan, 1997, 105, 707-709.	1.3	2
118	Preparation of a Visible Light-responding Photocatalyst via Nitrogen Doping to Titanium(IV) Oxide Modified with a Silane Coupling Reagent. Electrochemistry, 2008, 76, 118-120.	1.4	2
119	Synthetic Applications of Titanium(IV) Oxide-Based Photocatalysts. Green Chemistry and Sustainable Technology, 2016, , 283-320.	0.7	2
120	Combustion of Toluene over Titanium(IV) Oxide Catalyst. Journal of the Japan Petroleum Institute, 2007, 50, 283-286.	0.6	2
121	Preparation of Titanium Oxide-Based Powders and Thin Films of High Photocatalytic Activities Using Solvothermal Methods. Nanostructure Science and Technology, 2010, , 113-132.	0.1	1
122	Synthesis of Disk-Shaped Tungsten(VI) Oxide Particles with Various Physical Properties for Mineralization of Acetic Acid in Water Under Irradiation of Visible Light. Journal of Nanoscience and Nanotechnology, 2020, 20, 4131-4137.	0.9	1
123	Au Surface Oxide Layer as a Hole-Transferring Cocatalyst for Water Oxidation over Au Nanoparticle-Decorated TiO ₂ Photocatalysts. ACS Applied Nano Materials, 2022, 5, 8982-8990.	5.0	1
124	Synthesis of Thermally Stable, Phosphorus-Modified Titanium Oxide Nano-Crystals by Thermal Decomposition of Titanium Alkoxide and Phosphoric Ester in Organic Solvent of High Temperature and High Pressure.. Journal of the Ceramic Society of Japan, 2001, 109, 332-337.	1.3	0
125	Rapid and Continuous Saponification of Oils and Fats without Agitation in Silicone Rubber Tube as Reactor: Production and Evaluation of Soaps. Journal of the Japan Petroleum Institute, 2009, 52, 288-294.	0.6	0
126	Developments and Trends of the Photocatalyst in Green Chemistry. Journal of the Institute of Electrical Engineers of Japan, 2018, 138, 606-609.	0.0	0