

Atsuhiko Tanaka

List of Publications by Year in descending order

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72
papers

2,896
citations

218677

26
h-index

168389

53
g-index

73
all docs

73
docs citations

73
times ranked

3618
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	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
5	Visible light-induced water splitting in an aqueous suspension of a plasmonic Au/TiO ₂ photocatalyst with metal co-catalysts. <i>Chemical Science</i> , 2017, 8, 2574-2580.	7.4	130
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Gold nanoparticles supported on cerium(IV) oxide powder for mineralization of organic acids in aqueous suspensions under irradiation of visible light of $\lambda = 530\text{nm}$. <i>Applied Catalysis A: General</i> , 2011, 397, 121-126.	4.3	69
14	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
15	A novel promoter, derived from the isocitrate lyase gene of <i>Candida tropicalis</i> , inducible with acetate in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 489-492.	3.6	41
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	Enzymatic preparation of optically active 3-trimethylsilylalanine. <i>Applied Microbiology and Biotechnology</i> , 1996, 45, 51-55.	3.6	31
24	Non-linear photocatalytic reaction induced by visible-light surface-plasmon resonance absorption of gold nanoparticles loaded on titania particles. <i>Chemical Communications</i> , 2013, 49, 3419.	4.1	31
25	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
26	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
27	Application of immobilized growing cells. , 1990, 42, 97-131.		26
28	Enantioselective dehydrogenation of Î ² -hydroxysilanes by horse liver alcohol dehydrogenase with a novel in-situ NAD ⁺ regeneration system. <i>Applied Microbiology and Biotechnology</i> , 1994, 41, 219-224.	3.6	25
29	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
30	Bioconversion of lipophilic compounds by immobilized microbial cells in organic solvents. <i>Acta Biotechnologica</i> , 1981, 1, 339-350.	0.9	22
31	Simultaneous Formation of CO and H ₂ O ₂ from CO ₂ and H ₂ O with a Ag—MnO _x /CaTiO ₃ Photocatalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 6500-6510.	5.1	20
32	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
33	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
34	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
35	Photocatalytic Selective Hydrogenation of Furfural to Furfuryl Alcohol over Titanium(IV) Oxide. <i>Chemistry Letters</i> , 2018, 47, 254-256.	1.3	18
36	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

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37	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
38	Enzymatic preparation of d - p α -trimethylsilylphenylalanine. <i>Applied Microbiology and Biotechnology</i> , 1997, 47, 114-119.	3.6	16
39	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1962, 54, 226-229.	1.1	15
40	Meerwein α -Ponndorf β -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
41	Control of Surface Plasmon Resonance of Au/SnO ₂ by Modification with Ag and Cu for Photoinduced Reactions under Visible α Light Irradiation over a Wide Range. <i>Chemistry - A European Journal</i> , 2016, 22, 4592-4599.	3.3	15
42	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
43	Inhibition of thermolysin by 3-trimethylsilylalanine derivatives. <i>Applied Microbiology and Biotechnology</i> , 1999, 53, 19-22.	3.6	14
44	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
45	High-performance continuous operation for enantioselective esterification of menthol by use of acid anhydride and free lipase in organic solvent. <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 639-643.	3.6	12
46	Expression of the SNF1 gene from <i>Candida tropicalis</i> is required for growth on various carbon sources, including glucose. <i>Archives of Microbiology</i> , 1999, 172, 256-263.	2.2	12
47	Accelerated Semihydrogenation of Alkynes over a Copper/Palladium/Titanium α ... (IV) Oxide Photocatalyst Free from Poison and H ₂ Gas. <i>ChemCatChem</i> , 2020, 12, 1609-1616.	3.7	12
48	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
49	Enzymatic synthesis of silicon-containing dipeptides with 3-trimethylsilylalanine. <i>Applied Microbiology and Biotechnology</i> , 1999, 51, 470-473.	3.6	10
50	Heterogeneous Meerwein α -Ponndorf β -Verley α -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
51	Photocatalytic Selective Ring Hydrogenation of Phenol to Cyclohexanone over a Palladium α -Loaded Titanium(IV) Oxide under Hydrogen α -Free Conditions. <i>ChemPhotoChem</i> , 2019, 3, 559-567.	3.0	9
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	Bifunctions of a Cr hydroxide layer for water splitting over a platinized Au/TiO ₂ plasmonic photocatalyst under visible light irradiation. <i>Catalysis Today</i> , 2023, 410, 323-331.	4.4	5
61	Peroxisomes of alkane-utilizing yeasts metabolic functions and practical aspects. <i>Acta Biotechnologica</i> , 1983, 3, 327-337.	0.9	4
62	Sorting of Peroxisomal and Mitochondrial Carnitine Acetyltransferase Isozymes in the Diploid Yeast, <i>Candida tropicalis</i> . <i>Cell Biochemistry and Biophysics</i> , 2000, 32, 139-146.	1.8	4
63	Effects of Copper(II) Oxide Addition and Red Light Irradiation on Photocatalytic Activity of Indium Oxide under Irradiation of Visible Light. <i>Chemistry Letters</i> , 2013, 42, 419-421.	1.3	4
64	Controlling the performance of a silver co-catalyst by a palladium core in TiO ₂ -photocatalyzed alkyne semihydrogenation and H ₂ production. <i>Applied Catalysis A: General</i> , 2021, 624, 118331.	4.3	4
65	A novel promoter, derived from the isocitrate lyase gene of <i>Candida tropicalis</i> , inducible with acetate in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 489-492.	3.6	4
66	Glycerol as an excellent hydrogen and electron source for photocatalytic hydrogenation of nitrobenzene in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 430, 113963.	3.9	4
67	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. <i>Applied Catalysis A: General</i> , 2020, 591, 117412.	4.3	3
68	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. <i>ChemCatChem</i> , 2022, 14, .	3.7	3
69	Efficient kinetic resolution of dl-menthol by lipase-catalyzed enantioselective esterification with acid anhydride in fed-batch reactor. <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 402-407.	3.6	3
70	3-Ketoacyl CoA Thiolases of a Yeast, <i>Candida tropicalis</i> . Properties and Functions. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 39-43.	3.8	1
71	Synthesis of Disk-Shaped Tungsten(VI) Oxide Particles with Various Physical Properties for Mineralization of Acetic Acid in Water Under Irradiation of Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4131-4137.	0.9	1
72	Au Surface Oxide Layer as a Hole-Transferring Cocatalyst for Water Oxidation over Au Nanoparticle-Decorated TiO ₂ Photocatalysts. <i>ACS Applied Nano Materials</i> , 2022, 5, 8982-8990.	5.0	1