

Fumiaki Amano

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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.

66 papers	2,657 citations	26 h-index	51 g-index
74 ext. papers	2,878 ext. citations	6.6 avg, IF	5.27 L-index

#	Paper	IF	Citations
66	Decahedral Single-Crystalline Particles of Anatase Titanium(IV) Oxide with High Photocatalytic Activity. <i>Chemistry of Materials</i> , 2009 , 21, 2601-2603	9.6	241
65	Visible light responsive pristine metal oxide photocatalyst: enhancement of activity by crystallization under hydrothermal treatment. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17650-17654	16.4	202
64	Preparation and Characterization of Bismuth Tungstate Polycrystalline Flake-Ball Particles for Photocatalytic Reactions. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9320-9326	3.8	155
63	Effect of Particle Size on the Photocatalytic Activity of WO ₃ Particles for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22584-22590	3.8	146
62	Fabrication and photoelectrochemical property of tungsten(vi) oxide films with a flake-wall structure. <i>Chemical Communications</i> , 2010 , 46, 2769-71	5.8	143
61	Correlation between surface area and photocatalytic activity for acetaldehyde decomposition over bismuth tungstate particles with a hierarchical structure. <i>Langmuir</i> , 2010 , 26, 7174-80	4	131
60	Photocatalytic activity of octahedral single-crystalline mesoparticles of anatase titanium(IV) oxide. <i>Chemical Communications</i> , 2009 , 2311-3	5.8	128
59	Effect of Ti ³⁺ Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6467-6474	3.8	114
58	Visible Light-Responsive Bismuth Tungstate Photocatalysts: Effects of Hierarchical Architecture on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1536-1542	3.8	114
57	Solar photocatalysis: A green technology for E. coli contaminated water disinfection. Effect of concentration and different types of suspended catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 276, 31-40	4.7	90
56	Gold-titanium(IV) oxide plasmonic photocatalysts prepared by a colloid-photodeposition method: correlation between physical properties and photocatalytic activities. <i>Langmuir</i> , 2012 , 28, 13105-11	4	71
55	Facile preparation of platelike tungsten oxide thin film electrodes with high photoelectrode activity. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4047-52	9.5	69
54	One-electron reducibility of isolated copper oxide on alumina for selective NO ₂ O reaction. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 282-289	21.8	64
53	Facile Hydrothermal Preparation and Photocatalytic Activity of Bismuth Tungstate Polycrystalline Flake-ball Particles. <i>Chemistry Letters</i> , 2007 , 36, 1314-1315	1.7	59
52	NO reduction with CO in the presence of O ₂ over Al ₂ O ₃ -supported and Cu-based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2449-2458	3.6	57
51	Photocatalytic oxidation of propylene with molecular oxygen over highly dispersed titanium, vanadium, and chromium oxides on silica. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 281-8	3.4	53
50	Highly Active Titania Photocatalyst Particles of Controlled Crystal Phase, Size, and Polyhedral Shapes. <i>Topics in Catalysis</i> , 2010 , 53, 455-461	2.3	47

49	Steady-state photocatalytic epoxidation of propene by O ₂ over V ₂ O ₅ /SiO ₂ photocatalysts. <i>Langmuir</i> , 2004 , 20, 4236-40	4	47
48	Nanowire-structured titanate with anatase titania: Characterization and photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 583-589	21.8	46
47	Rutile titanium dioxide prepared by hydrogen reduction of Degussa P25 for highly efficient photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2016 , 6, 5693-5699	5.5	46
46	Photoelectrochemical Property of Tungsten Oxide Films of Vertically Aligned Flakes for Visible-Light-Induced Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2011 , 158, K42	3.9	43
45	High-temperature calcination and hydrogen reduction of rutile TiO ₂ : A method to improve the photocatalytic activity for water oxidation. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 202-208	21.8	39
44	Enhanced photocatalytic activity of bismuth-tungsten mixed oxides for oxidative decomposition of acetaldehyde under visible light irradiation. <i>Catalysis Communications</i> , 2012 , 20, 12-16	3.2	35
43	Auto-reduction of Cu(II) species supported on Al ₂ O ₃ to Cu(I) by thermovacuum treatment. <i>Journal of Molecular Catalysis A</i> , 2004 , 221, 89-95		31
42	Photoelectrochemical properties of tungsten trioxide thin film electrodes prepared from facet-controlled rectangular platelets. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1965-1973	2.6	29
41	Modification of photocatalytic center for photo-epoxidation of propylene by rubidium ion addition to V ₂ O ₅ /SiO ₂ . <i>Catalysis Communications</i> , 2005 , 6, 269-273	3.2	29
40	Effect of Photoexcited Electron Dynamics on Photocatalytic Efficiency of Bismuth Tungstate. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16598-16605	3.8	26
39	Photoelectrochemical Homocoupling of Methane under Blue Light Irradiation. <i>ACS Energy Letters</i> , 2019 , 4, 502-507	20.1	24
38	Propylene Oxide Synthesis and Selective Oxidation over Supported Metal Oxide Photocatalysts with Molecular Oxygen. <i>Chemistry Letters</i> , 2006 , 35, 468-473	1.7	22
37	Fabrication and photoelectrochemical study of WO ₃ -based bifunctional electrodes for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 464-471	21.8	21
36	In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO ₂ and Al ₂ O ₃ . <i>Catalysis Letters</i> , 2009 , 131, 413-418	2.8	21
35	Photocatalytic activity of titania particles calcined at high temperature: Investigating deactivation. <i>Chemical Physics Letters</i> , 2013 , 579, 111-113	2.5	19
34	Enhancement of photocathodic stability of p-type copper(I) oxide electrodes by surface etching treatment. <i>Thin Solid Films</i> , 2014 , 550, 340-346	2.2	19
33	Photocatalytic Activity of Rutile Titania for Hydrogen Evolution. <i>Chemistry Letters</i> , 2014 , 43, 509-511	1.7	16
32	What Are Titania Photocatalysts? An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , 2010 , 13,		16

31	Selective photocatalytic oxidation of light alkanes over alkali-ion-modified V ₂ O ₅ /SiO ₂ ; kinetic study and reaction mechanism. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10973-7	3.4	16
30	Solid Polymer Electrolyte-Coated Macroporous Titania Nanotube Photoelectrode for Gas-Phase Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 1925-1930	8.3	16
29	Pressure-induced dehydrogenative coupling of methane to ethane by platinum-loaded gallium oxide photocatalyst. <i>Chemical Communications</i> , 2020 , 56, 6348-6351	5.8	15
28	Fabrication of tungsten trioxide photoanode with titanium microfibers as a three dimensional conductive back contact. <i>Materials Letters</i> , 2017 , 199, 68-71	3.3	13
27	A Macroporous-Structured WO ₃ /Mo-Doped BiVO ₄ Photoanode for Vapor-Fed Water Splitting under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9456-9463	8.3	13
26	Mechanism of formation, structural characteristics and photocatalytic activities of hierarchical-structured bismuth-tungstate particles. <i>Catalysis Today</i> , 2018 , 300, 99-111	5.3	13
25	Effects of donor doping and acceptor doping on rutile TiO ₂ particles for photocatalytic O ₂ evolution by water oxidation. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 79-85	3.3	13
24	Photoelectrochemical Gas-Electrolyte-Solid Phase Boundary for Hydrogen Production From Water Vapor. <i>Frontiers in Chemistry</i> , 2018 , 6, 598	5	13
23	Tungsten(VI) Oxide Flake-Wall Film Electrodes for Photoelectrochemical Oxygen Evolution from Water. <i>ECS Transactions</i> , 2010 , 28, 127-133	1	11
22	Effect of alkali-ion-doping on the local structure and the photocatalytic properties of alumina-supported vanadium oxides. <i>Catalysis Today</i> , 2007 , 120, 126-132	5.3	11
21	Multielectron reduction of molecular oxygen in photocatalytic decomposition of organic compounds by bismuth tungstate particles without cocatalyst loading. <i>Catalysis Today</i> , 2018 , 303, 341-349	5.3	10
20	Nitrogen-Doped Titanium(IV) Oxide Particles as a Visible-Light-Responsive Photocatalyst Prepared from Exfoliated Titanate Nanosheets. <i>Transactions of the Materials Research Society of Japan</i> , 2008 , 33, 173-176	0.2	10
19	Photoelectrochemical water vapor splitting using an ionomer-coated rutile TiO ₂ thin layer on titanium microfiber felt as an oxygen-evolving photoanode. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2048-2055	5.8	9
18	Photoelectrochemical Hydrogen Evolution Using Copper-Indium-Sulfide Nanocrystalline Film Electrodes. <i>Electrochemistry</i> , 2011 , 79, 804-806	1.2	9
17	Methane coupling and hydrogen evolution induced by palladium-loaded gallium oxide photocatalysts in the presence of water vapor. <i>Journal of Catalysis</i> , 2021 , 397, 192-200	7.3	9
16	Amorphous Iridium and Tantalum Oxide Layers Coated on Titanium Felt for Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4531-4538	6.1	8
15	Mechanism of the Formation of Hierarchical-structured Bismuth Tungstate Photocatalyst Particles through Counter-flow Supply of Bismuth and Tungsten Sources. <i>Chemistry Letters</i> , 2015 , 44, 1723-1725	1.7	8
14	Enhanced Visible Light Response of TiO ₂ Codoped with Cr and Ta Photocatalysts by Electron Doping. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3274-3282	6.1	7

13	Rutile Titania Particulate Photoelectrodes Fabricated by Two-Step Annealing of Titania Nanotube Arrays. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H3164-H3169	3.9	6
12	Vapor-fed photoelectrolysis of water at 0.3 V using gas-diffusion photoanodes of SrTiO ₃ layers. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1443-1453	5.8	6
11	Photoelectrochemical stability of WO ₃ /Mo-doped BiVO ₄ heterojunctions on different conductive substrates in acidic and neutral media. <i>Applied Surface Science</i> , 2021 , 548, 149251	6.7	5
10	Role of doped titanium species in the enhanced photoelectrochemical properties of iron oxide films: Comparison between water oxidation and iodide ion oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 766, 100-106	4.1	4
9	Effect of conductive substrate on the photoelectrochemical properties of Cu ₂ O film electrodes for methyl viologen reduction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 389, 112254	4.7	4
8	Influence of light intensity on the steady-state kinetics in tungsten trioxide particulate photoanode studied by intensity-modulated photocurrent spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 860, 113891	4.1	3
7	Direct Electrochemical Visualization of the Orthogonal Charge Separation in Anatase Nanotube Photoanodes for Water Splitting. <i>ACS Catalysis</i> , 2022 , 12, 1201-1208	13.1	3
6	Alkali Metal Ion-Modified Vanadium Mononuclear Complex for Photocatalytic Mineralization of Organic Compounds. <i>Catalysis Letters</i> , 2010 , 140, 27-31	2.8	2
5	Hydrogen Reduced Rutile Titanium Dioxide Photocatalyst 2017 ,		1
4	Photoelectrochemical Oxygen Evolution 2021 , 163-187		1
3	Effect of Adding Polyethylene Glycol to the Precursor Solution of Amorphous IrO ₂ -Ta ₂ O ₅ Electrocatalysts for Oxygen Evolution Reaction. <i>Electrochemistry</i> , 2021 , 89, 234-238	1.2	1
2	StructureStability Relationship of Amorphous IrO ₂ ∥Ta ₂ O ₅ Electrocatalysts on Ti Felt for Oxygen Evolution in Sulfuric Acid. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1817-1827	3.8	0
1	Preparation and Characterization of Bismuth Tungstate Polycrystalline Flake-Ball Particles for Photocatalytic Reactions. <i>Nanostructure Science and Technology</i> , 2016 , 391-404	0.9	