

# Fumiaki Amano

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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	Direct Electrochemical Visualization of the Orthogonal Charge Separation in Anatase Nanotube Photoanodes for Water Splitting. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1201-1208	13.1	3
65	Structure-Stability Relationship of Amorphous IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Electrocatalysts on Ti Felt for Oxygen Evolution in Sulfuric Acid. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1817-1827	3.8	0
64	Photoelectrochemical Oxygen Evolution <b>2021</b> , 163-187		1
63	Methane coupling and hydrogen evolution induced by palladium-loaded gallium oxide photocatalysts in the presence of water vapor. <i>Journal of Catalysis</i> , <b>2021</b> , 397, 192-200	7.3	9
62	Photoelectrochemical stability of WO <sub>3</sub> /Mo-doped BiVO <sub>4</sub> heterojunctions on different conductive substrates in acidic and neutral media. <i>Applied Surface Science</i> , <b>2021</b> , 548, 149251	6.7	5
61	Effect of Adding Polyethylene Glycol to the Precursor Solution of Amorphous IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Electrocatalysts for Oxygen Evolution Reaction. <i>Electrochemistry</i> , <b>2021</b> , 89, 234-238	1.2	1
60	Pressure-induced dehydrogenative coupling of methane to ethane by platinum-loaded gallium oxide photocatalyst. <i>Chemical Communications</i> , <b>2020</b> , 56, 6348-6351	5.8	15
59	A Macroporous-Structured WO <sub>3</sub> /Mo-Doped BiVO <sub>4</sub> Photoanode for Vapor-Fed Water Splitting under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 9456-9463	8.3	13
58	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> , <b>2020</b> , 860, 113891	4.1	3
57	Amorphous Iridium and Tantalum Oxide Layers Coated on Titanium Felt for Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4531-4538	6.1	8
56	Vapor-fed photoelectrolysis of water at 0.3 V using gas-diffusion photoanodes of SrTiO <sub>3</sub> layers. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1443-1453	5.8	6
55	Effect of conductive substrate on the photoelectrochemical properties of Cu <sub>2</sub> O film electrodes for methyl viologen reduction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 389, 112254	4.7	4
54	Photoelectrochemical Homocoupling of Methane under Blue Light Irradiation. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 502-507	20.1	24
53	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
52	Enhanced Visible Light Response of TiO <sub>2</sub> Codoped with Cr and Ta Photocatalysts by Electron Doping. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3274-3282	6.1	7
51	Solid Polymer Electrolyte-Coated Macroporous Titania Nanotube Photoelectrode for Gas-Phase Water Splitting. <i>ChemSusChem</i> , <b>2019</b> , 12, 1925-1930	8.3	16
50	Rutile Titania Particulate Photoelectrodes Fabricated by Two-Step Annealing of Titania Nanotube Arrays. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H3164-H3169	3.9	6

49	Mechanism of formation, structural characteristics and photocatalytic activities of hierarchical-structured bismuth-tungstate particles. <i>Catalysis Today</i> , <b>2018</b> , 300, 99-111	5.3	13
48	Effects of donor doping and acceptor doping on rutile TiO <sub>2</sub> particles for photocatalytic O <sub>2</sub> evolution by water oxidation. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 258, 79-85	3.3	13
47	Multielectron reduction of molecular oxygen in photocatalytic decomposition of organic compounds by bismuth tungstate particles without cocatalyst loading. <i>Catalysis Today</i> , <b>2018</b> , 303, 341-349	5.3	10
46	Photoelectrochemical Gas-Electrolyte-Solid Phase Boundary for Hydrogen Production From Water Vapor. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 598	5	13
45	Fabrication of tungsten trioxide photoanode with titanium microfibers as a three dimensional conductive back contact. <i>Materials Letters</i> , <b>2017</b> , 199, 68-71	3.3	13
44	Hydrogen Reduced Rutile Titanium Dioxide Photocatalyst <b>2017</b> ,		1
43	Effect of Ti <sup>3+</sup> Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6467-6474	3.8	114
42	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> , <b>2016</b> , 766, 100-106	4.1	4
41	Rutile titanium dioxide prepared by hydrogen reduction of Degussa P25 for highly efficient photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 5693-5699	5.5	46
40	Preparation and Characterization of Bismuth Tungstate Polycrystalline Flake-Ball Particles for Photocatalytic Reactions. <i>Nanostructure Science and Technology</i> , <b>2016</b> , 391-404	0.9	
39	Fabrication and photoelectrochemical study of WO <sub>3</sub> -based bifunctional electrodes for environmental applications. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 176-177, 464-471	21.8	21
38	Mechanism of the Formation of Hierarchical-structured Bismuth Tungstate Photocatalyst Particles through Counter-flow Supply of Bismuth and Tungsten Sources. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1723-1725	1.7	8
37	High-temperature calcination and hydrogen reduction of rutile TiO <sub>2</sub> : A method to improve the photocatalytic activity for water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 158-159, 202-208	21.8	39
36	Photocatalytic Activity of Rutile Titania for Hydrogen Evolution. <i>Chemistry Letters</i> , <b>2014</b> , 43, 509-511	1.7	16
35	Enhancement of photocathodic stability of p-type copper(I) oxide electrodes by surface etching treatment. <i>Thin Solid Films</i> , <b>2014</b> , 550, 340-346	2.2	19
34	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> , <b>2014</b> , 276, 31-40	4.7	90
33	Effect of Particle Size on the Photocatalytic Activity of WO <sub>3</sub> Particles for Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22584-22590	3.8	146
32	Photocatalytic activity of titania particles calcined at high temperature: Investigating deactivation. <i>Chemical Physics Letters</i> , <b>2013</b> , 579, 111-113	2.5	19

31	Gold-titanium(IV) oxide plasmonic photocatalysts prepared by a colloid-photodeposition method: correlation between physical properties and photocatalytic activities. <i>Langmuir</i> , <b>2012</b> , 28, 13105-11	4	71
30	Photoelectrochemical properties of tungsten trioxide thin film electrodes prepared from facet-controlled rectangular platelets. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 1965-1973	2.6	29
29	Enhanced photocatalytic activity of bismuth-tungsten mixed oxides for oxidative decomposition of acetaldehyde under visible light irradiation. <i>Catalysis Communications</i> , <b>2012</b> , 20, 12-16	3.2	35
28	Effect of Photoexcited Electron Dynamics on Photocatalytic Efficiency of Bismuth Tungstate. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16598-16605	3.8	26
27	Photoelectrochemical Hydrogen Evolution Using Copper-Indium-Sulfide Nanocrystalline Film Electrodes. <i>Electrochemistry</i> , <b>2011</b> , 79, 804-806	1.2	9
26	Facile preparation of platelike tungsten oxide thin film electrodes with high photoelectrode activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 4047-52	9.5	69
25	Photoelectrochemical Property of Tungsten Oxide Films of Vertically Aligned Flakes for Visible-Light-Induced Water Oxidation. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, K42	3.9	43
24	Tungsten(VI) Oxide Flake-Wall Film Electrodes for Photoelectrochemical Oxygen Evolution from Water. <i>ECS Transactions</i> , <b>2010</b> , 28, 127-133	1	11
23	Correlation between surface area and photocatalytic activity for acetaldehyde decomposition over bismuth tungstate particles with a hierarchical structure. <i>Langmuir</i> , <b>2010</b> , 26, 7174-80	4	131
22	Fabrication and photoelectrochemical property of tungsten(vi) oxide films with a flake-wall structure. <i>Chemical Communications</i> , <b>2010</b> , 46, 2769-71	5.8	143
21	What Are Titania Photocatalysts? An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , <b>2010</b> , 13,		16
20	Alkali Metal Ion-Modified Vanadium Mononuclear Complex for Photocatalytic Mineralization of Organic Compounds. <i>Catalysis Letters</i> , <b>2010</b> , 140, 27-31	2.8	2
19	Highly Active Titania Photocatalyst Particles of Controlled Crystal Phase, Size, and Polyhedral Shapes. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 455-461	2.3	47
18	In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Letters</i> , <b>2009</b> , 131, 413-418	2.8	21
17	Nanowire-structured titanate with anatase titania: Characterization and photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 583-589	21.8	46
16	Decahedral Single-Crystalline Particles of Anatase Titanium(IV) Oxide with High Photocatalytic Activity. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2601-2603	9.6	241
15	Visible Light-Responsive Bismuth Tungstate Photocatalysts: Effects of Hierarchical Architecture on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1536-1542	3.8	114
14	Photocatalytic activity of octahedral single-crystalline mesoparticles of anatase titanium(IV) oxide. <i>Chemical Communications</i> , <b>2009</b> , 2311-3	5.8	128

13	Preparation and Characterization of Bismuth Tungstate Polycrystalline Flake-Ball Particles for Photocatalytic Reactions. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9320-9326	3.8	155
12	Visible light responsive pristine metal oxide photocatalyst: enhancement of activity by crystallization under hydrothermal treatment. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17650-17654	16.4	202
11	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> , <b>2008</b> , 33, 173-176	0.2	10
10	Effect of alkali-ion-doping on the local structure and the photocatalytic properties of alumina-supported vanadium oxides. <i>Catalysis Today</i> , <b>2007</b> , 120, 126-132	5.3	11
9	Facile Hydrothermal Preparation and Photocatalytic Activity of Bismuth Tungstate Polycrystalline Flake-ball Particles. <i>Chemistry Letters</i> , <b>2007</b> , 36, 1314-1315	1.7	59
8	Photocatalytic oxidation of propylene with molecular oxygen over highly dispersed titanium, vanadium, and chromium oxides on silica. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 281-8	3.4	53
7	One-electron reducibility of isolated copper oxide on alumina for selective NO <sub>x</sub> reaction. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 64, 282-289	21.8	64
6	Propylene Oxide Synthesis and Selective Oxidation over Supported Metal Oxide Photocatalysts with Molecular Oxygen. <i>Chemistry Letters</i> , <b>2006</b> , 35, 468-473	1.7	22
5	Selective photocatalytic oxidation of light alkanes over alkali-ion-modified V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> ; kinetic study and reaction mechanism. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 10973-7	3.4	16
4	Modification of photocatalytic center for photo-epoxidation of propylene by rubidium ion addition to V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> . <i>Catalysis Communications</i> , <b>2005</b> , 6, 269-273	3.2	29
3	Auto-reduction of Cu(II) species supported on Al <sub>2</sub> O <sub>3</sub> to Cu(I) by thermovacuum treatment. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 221, 89-95		31
2	Steady-state photocatalytic epoxidation of propene by O <sub>2</sub> over V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> photocatalysts. <i>Langmuir</i> , <b>2004</b> , 20, 4236-40	4	47
1	NO reduction with CO in the presence of O <sub>2</sub> over Al <sub>2</sub> O <sub>3</sub> -supported and Cu-based catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 2449-2458	3.6	57