

Akira Yamamoto

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67 papers	1,076 citations	19 h-index	30 g-index
73 ext. papers	1,377 ext. citations	6.5 avg, IF	4.94 L-index

#	Paper	IF	Citations
67	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
66	Diffusion tensor fiber tractography of the optic radiation: analysis with 6-, 12-, 40-, and 81-directional motion-probing gradients, a preliminary study. <i>American Journal of Neuroradiology</i> , 2007 , 28, 92-6	4.4	78
65	Modification of Metal Nanoparticles with TiO ₂ and Metal Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011 , 1, 187-192	13.1	64
64	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
63	Highly selective photocatalytic reduction of carbon dioxide with water over silver-loaded calcium titanate. <i>Catalysis Communications</i> , 2017 , 100, 134-138	3.2	45
62	Silver-loaded sodium titanate photocatalysts for selective reduction of carbon dioxide to carbon monoxide with water. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 47-56	21.8	41
61	Boltzmann Thermometry in Cr ³⁺ -Doped Ga ₂ O ₃ Polymorphs: The Structure Matters!. <i>Advanced Optical Materials</i> , 2021 , 9, 2100033	8.1	37
60	Effects of reaction temperature on the photocatalytic activity of photo-SCR of NO with NH ₃ over a TiO ₂ photocatalyst. <i>Catalysis Science and Technology</i> , 2013 , 3, 1771	5.5	36
59	Dynamic Behavior of Rh Species in Rh/AlO Model Catalyst during Three-Way Catalytic Reaction: An Operando X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018 , 140, 176-184	16.4	29
58	Visible-light-assisted selective catalytic reduction of NO with NH ₃ on porphyrin derivative-modified TiO ₂ photocatalysts. <i>Catalysis Science and Technology</i> , 2015 , 5, 556-561	5.5	26
57	Low temperature dry reforming of methane over plasmonic Ni photocatalysts under visible light irradiation. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2968-2971	5.8	25
56	Platinum loaded sodium tantalate photocatalysts prepared by a flux method for photocatalytic steam reforming of methane. <i>Applied Catalysis A: General</i> , 2016 , 521, 125-132	5.1	25
55	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	5.8	24
54	Magnetic resonance angiography with compressed sensing: An evaluation of moyamoya disease. <i>PLoS ONE</i> , 2018 , 13, e0189493	3.7	23
53	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	21.8	23
52	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	21.8	23
51	A zeolitic vanadotungstate family with structural diversity and ultrahigh porosity for catalysis. <i>Nature Communications</i> , 2018 , 9, 3789	17.4	22

50	Bifunctional property of Pt nanoparticles deposited on TiO ₂ for the photocatalytic sp ³ C–sp ³ C cross-coupling reactions between THF and alkanes. <i>Catalysis Science and Technology</i> , 2017 , 7, 2616-2623	5.5	19
49	Visible-Light-Assisted Selective Catalytic Reduction of Nitric Oxide with Ammonia over Dye-Modified Titania Photocatalysts. <i>ChemCatChem</i> , 2015 , 7, 1818-1825	5.2	19
48	Effects of SO on selective catalytic reduction of NO with NH ₃ over a TiO photocatalyst. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 024901	7.1	19
47	Anti-Markovnikov Hydroamination of Alkenes with Aqueous Ammonia by Metal-Loaded Titanium Oxide Photocatalyst. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12708-12714	16.4	18
46	Dry reforming of methane over alumina-supported rhodium catalysts at low temperatures under visible and near-infrared light. <i>Catalysis Science and Technology</i> , 2020 , 10, 5811-5814	5.5	18
45	Uterine peristalsis in women with repeated IVF failures: possible therapeutic effect of hyoscine bromide. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2009 , 31, 732-735	1.3	17
44	Visible-light-induced photocatalytic benzene/cyclohexane cross-coupling utilizing a ligand-to-metal charge transfer benzene complex adsorbed on titanium oxides. <i>Catalysis Science and Technology</i> , 2018 , 8, 2046-2050	5.5	16
43	Surface Ba species effective for photoassisted NO _x storage over Ba-modified TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 283-290	21.8	15
42	Calcium zirconate photocatalyst and silver cocatalyst for reduction of carbon dioxide with water. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119192	21.8	15
41	Selective Catalytic Reduction of NO by NH ₃ over Photocatalysts (Photo-SCR): Mechanistic Investigations and Developments. <i>Chemical Record</i> , 2016 , 16, 2268-2277	6.6	15
40	Noble-Metal-Free NO _x Storage over Ba-Modified TiO ₂ Photocatalysts under UV-Light Irradiation at Low Temperatures. <i>ACS Catalysis</i> , 2015 , 5, 2939-2943	13.1	14
39	Time-dependent diffusion MRI to distinguish malignant from benign head and neck tumors. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 88-95	5.6	13
38	Non-oxidative coupling of methane over Pd-loaded gallium oxide photocatalysts in a flow reactor. <i>Catalysis Today</i> , 2021 , 375, 264-272	5.3	13
37	Photocatalytic Ullmann coupling of aryl halides by a novel blended catalyst consisting of a TiO ₂ photocatalyst and an Al ₂ O ₃ supported Pd/Au bimetallic catalyst. <i>Catalysis Science and Technology</i> , 2018 , 8, 6196-6203	5.5	13
36	Dehydrogenative lactonization of diols with a platinum-loaded titanium oxide photocatalyst. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 1744-1748	4.2	10
35	Optimization of Regularization Parameters in Compressed Sensing of Magnetic Resonance Angiography: Can Statistical Image Metrics Mimic Radiologists' Perception?. <i>PLoS ONE</i> , 2016 , 11, e0146548	3.7	10
34	Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water. <i>Catalysis Letters</i> , 2020 , 150, 1081-1088	2.8	10
33	Synthesis of Keggin-Type Cobaltomolybdate-Based 3D Framework Material and Characterization Using Atomic-Scale HAADF-STEM and XANES. <i>Inorganic Chemistry</i> , 2017 , 56, 2042-2049	5.1	9

32	Preparation of sodium hexatitanate photocatalysts by a flux method for photocatalytic steam reforming of methane. <i>Catalysis Today</i> , 2019 , 334, 30-36	5.3	9
31	Platinum-loaded lanthanum-doped calcium titanate photocatalysts prepared by a flux method for photocatalytic steam reforming of methane. <i>Catalysis Today</i> , 2020 , 352, 1-9	5.3	9
30	Optoelectronic properties of valence-state-controlled amorphous niobium oxide. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 255001	1.8	9
29	Activities of polyhedral vanadium-containing silsequioxane-based catalysts for photo-assisted oxidation of hydrocarbons. <i>Research on Chemical Intermediates</i> , 1998 , 24, 515-527	2.8	9
28	Response to thyrotropin-releasing hormone stimulation tests in preterm infants with transient hypothyroxinemia of prematurity. <i>Journal of Perinatology</i> , 2015 , 35, 725-8	3.1	8
27	Direct cross-coupling between alkenes and tetrahydrofuran with a platinum-loaded titanium oxide photocatalyst. <i>Catalysis Science and Technology</i> , 2018 , 8, 2546-2556	5.5	8
26	Whole brain magnetization transfer histogram analysis of pediatric acute lymphoblastic leukemia patients receiving intrathecal methotrexate therapy. <i>European Journal of Radiology</i> , 2006 , 57, 423-7	4.7	8
25	Metal Cocatalyst Directing Photocatalytic Acetylation of Toluene via Dehydrogenative Cross-Coupling with Acetone. <i>Catalysis Letters</i> , 2020 , 150, 31-38	2.8	8
24	Novel blended catalysts consisting of a TiO photocatalyst and an AlO supported Pd-Au bimetallic catalyst for direct dehydrogenative cross-coupling between arenes and tetrahydrofuran.. <i>RSC Advances</i> , 2018 , 8, 24021-24028	3.7	8
23	Comparison of platinum photodeposition processes on two types of titanium dioxide photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8730-8738	3.6	7
22	Visible-light photoexcitation of pyridine surface complex, leading to selective dehydrogenative cross-coupling with cyclohexane. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28375-28381	3.6	6
21	Structural characterization of molybdenum-dinitrogen complex as key species toward ammonia formation by dispersive XAFS spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 12368-12372	3.6	5
20	Age-related signal intensity changes in the corpus callosum: assessment with three orthogonal FLAIR images. <i>European Radiology</i> , 2005 , 15, 2304-11	8	5
19	Mid-anterior surface of the callosal splenium: subependymal or subpial?. <i>American Journal of Neuroradiology</i> , 2004 , 25, 664-5	4.4	5
18	Effect of a crystalline phase of TiO ₂ photocatalysts on the photodeposition of Rh metal nanoparticles. <i>Catalysis Today</i> , 2014 , 232, 165-170	5.3	4
17	Structural Characterization of 2D Zirconomolybdate by Atomic Scale HAADF-STEM and XANES and Its Highly Stable Electrochemical Properties as a Li Battery Cathode. <i>Inorganic Chemistry</i> , 2017 , 56, 14306-14314	5.1	4
16	Identification of hydrogen species on Pt/Al ₂ O ₃ by in situ inelastic neutron scattering and their reactivity with ethylene. <i>Catalysis Science and Technology</i> , 2021 , 11, 116-123	5.5	4
15	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	6.1	3

14	Ag K- and L3-edge XAFS study on Ag species in Ag/Ga ₂ O ₃ photocatalysts. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012074	0.3	3
13	A Pd-Bi Dual-Cocatalyst-Loaded Gallium Oxide Photocatalyst for Selective and Stable Nonoxidative Coupling of Methane. <i>ACS Catalysis</i> , 13768-13781	13.1	2
12	Ligand-to-metal charge transfer of a pyridine surface complex on TiO for selective dehydrogenative cross-coupling with benzene. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11366-11373	2.6	2
11	Identification of Active Ba Species on TiO ₂ Photocatalyst for NO _x Trapping. <i>Chemistry Letters</i> , 2020 , 49, 859-862	1.7	1
10	Acceleration of 2D-MR fingerprinting by reducing the number of echoes with increased in-plane resolution: a volunteer study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 783-791	2.8	1
9	Visible-Light-Assisted Selective Catalytic Reduction of Nitric Oxide with Ammonia over Dye-Modified Titania Photocatalysts. <i>ChemCatChem</i> , 2015 , 7, 1723-1723	5.2	1
8	Nonoxidative coupling of ethane with gold loaded photocatalysts. <i>Catalysis Science and Technology</i> ,	5.5	1
7	Photocatalytic activation of water with metal loaded photocatalysts prepared by a flux method 2016 ,		1
6	Alkali hexatitanate photocatalysts with various morphologies for selective reduction of carbon dioxide with water. <i>Dalton Transactions</i> , 2021 , 50, 7976-7983	4.3	1
5	Observation of Adsorbed Hydrogen Species on Supported Metal Catalysts by Inelastic Neutron Scattering. <i>Topics in Catalysis</i> , 2021 , 64, 660-671	2.3	0
4	Carbon monoxide as an intermediate product in the photocatalytic steam reforming of methane with lanthanum-doped sodium tantalate. <i>Catalysis Science and Technology</i> , 2021 , 11, 5534-5542	5.5	0
3	Visible light-induced Minisci reaction through photoexcitation of surface Ti-peroxo species. <i>Catalysis Science and Technology</i> , 2021 , 11, 3376-3384	5.5	0
2	BaTi ₄ O ₉ Photocatalysts with Various Loaded Ag Cocatalyst for Highly Selective Photocatalytic CO ₂ Reduction with Water. <i>Catalysis Letters</i> , 1	2.8	
1	Gibbs Energy of Hydrogen Adsorption on Pt Surface by Machine Learning Potential and Metadynamics. <i>Chemistry Letters</i> , 2021 , 50, 1329-1332	1.7	