

Tetsuya Kako

List of Publications by Year in descending order

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81
papers

10,009
citations

41344

49
h-index

54911

84
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86
all docs

86
docs citations

86
times ranked

10797
citing authors

#	ARTICLE	IF	CITATIONS
1	An orthophosphate semiconductor with photooxidation properties under visible-light irradiation. <i>Nature Materials</i> , 2010, 9, 559-564.	27.5	1,807
2	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2016, 26, 6822-6829.	14.9	583
3	Photothermal Conversion of CO ₂ into CH ₄ with H ₂ over Group-VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11478-11482.	13.8	385
4	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 9128-9136.	13.7	341
5	Photophysical and Photocatalytic Properties of SrTiO ₃ Doped with Cr Cations on Different Sites. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15824-15830.	2.6	325
6	Hydrogen production using zinc-doped carbon nitride catalyst irradiated with visible light. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 034401.	6.1	292
7	Efficient Photocatalytic Decomposition of Acetaldehyde over a Solid-Solution Perovskite (Ag _{0.75} Sr _{0.25})(Nb _{0.75} Ti _{0.25})O ₃ under Visible-Light Irradiation. <i>Journal of the American Chemical Society</i> , 2008, 130, 2724-2725.	13.7	291
8	Nature-Inspired Environmental Phosphorylation Boosts Photocatalytic H ₂ Production over Carbon Nitride Nanosheets under Visible-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13561-13565.	13.8	287
9	Enhanced Incident Photon-to-Electron Conversion Efficiency of Tungsten Trioxide Photoanodes Based on 3D-Photonic Crystal Design. <i>ACS Nano</i> , 2011, 5, 4310-4318.	14.6	267
10	Direct and Selective Photocatalytic Oxidation of CH ₄ to Oxygenates with O ₂ on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , 2019, 141, 20507-20515.	13.7	253
11	Anatase TiO ₂ Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H ₂ Evolution. <i>Chemistry of Materials</i> , 2013, 25, 405-411.	6.7	248
12	The Effects of Crystal Structure and Electronic Structure on Photocatalytic H ₂ Evolution and CO ₂ Reduction over Two Phases of Perovskite-Structured NaNbO ₃ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 7621-7628.	3.1	243
13	High-Active Anatase TiO ₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H ₂ Evolution and CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1348-1354.	8.0	203
14	Superior Photocatalytic H ₂ Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. <i>Advanced Materials</i> , 2017, 29, 1703258.	21.0	188
15	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 408-416.	8.0	179
16	Decomposition of Organic Compounds over NaBiO ₃ under Visible Light Irradiation. <i>Chemistry of Materials</i> , 2007, 19, 198-202.	6.7	176
17	Photocatalytic CO ₂ conversion over alkali modified TiO ₂ without loading noble metal cocatalyst. <i>Chemical Communications</i> , 2014, 50, 11517-11519.	4.1	162
18	Synthesis and Photocatalytic Activities of NaNbO ₃ Rods Modified by In ₂ O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6157-6162.	3.1	159

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19	A selective Au-ZnO/TiO ₂ hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. <i>Nature Catalysis</i> , 2021, 4, 1032-1042.	34.4	156
20	Visible-Light-Mediated Methane Activation for Steam Methane Reforming under Mild Conditions: A Case Study of Rh/TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2018, 8, 7556-7565.	11.2	126
21	Implantation of Iron(III) in porphyrinic metal organic frameworks for highly improved photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 60-68.	20.2	125
22	A new heterojunction Ag ₃ PO ₄ /Cr-SrTiO ₃ photocatalyst towards efficient elimination of gaseous organic pollutants under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 286-292.	20.2	123
23	Photocatalytic activities of AgSbO ₃ under visible light irradiation. <i>Catalysis Today</i> , 2008, 131, 197-202.	4.4	121
24	Ion-exchange synthesis of a micro/mesoporous Zn ₂ GeO ₄ photocatalyst at room temperature for photoreduction of CO ₂ . <i>Chemical Communications</i> , 2011, 47, 2041.	4.1	119
25	New Series of Solid-Solution Semiconductors (AgNbO ₃) _{1-x} (SrTiO ₃) _x with Modulated Band Structure and Enhanced Visible-Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3785-3792.	3.1	116
26	Band-structure-controlled BiO(ClBr) _{1-x} I _x solid solutions for visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8123-8132.	10.3	114
27	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. <i>ACS Catalysis</i> , 2020, 10, 14318-14326.	11.2	114
28	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5570-5574.	13.8	104
29	Ag ₃ PO ₄ /In(OH) ₃ Composite Photocatalysts with Adjustable Surface-Electric Property for Efficient Photodegradation of Organic Dyes under Simulated Solar-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17716-17724.	3.1	101
30	Composition dependence of the photophysical and photocatalytic properties of (AgNbO ₃) _{1-x} (NaNbO ₃) _x solid solutions. <i>Journal of Solid State Chemistry</i> , 2007, 180, 2845-2850.	2.9	98
31	Mesoporous zinc germanium oxynitride for CO ₂ photoreduction under visible light. <i>Chemical Communications</i> , 2012, 48, 1269-1271.	4.1	98
32	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2016, 28, 158-163.	16.0	94
33	Constructing cubic-orthorhombic surface-phase junctions of NaNbO ₃ towards significant enhancement of CO ₂ photoreduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5606-5609.	10.3	93
34	Synthesis and enhanced photocatalytic activity of NaNbO ₃ prepared by hydrothermal and polymerized complex methods. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2487-2491.	4.0	91
35	Surface-coordination-induced selective synthesis of cubic and orthorhombic NaNbO ₃ and their photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1185-1191.	10.3	89
36	An ion-exchange route for the synthesis of hierarchical In ₂ S ₃ /ZnIn ₂ S ₄ bulk composite and its photocatalytic activity under visible-light irradiation. <i>Dalton Transactions</i> , 2013, 42, 2687.	3.3	86

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37	Porous-structured Cu ₂ O/TiO ₂ nanojunction material toward efficient CO ₂ photoreduction. Nanotechnology, 2014, 25, 165402.	2.6	86
38	Size-Dependent Mie's Scattering Effect on TiO ₂ Spheres for the Superior Photoactivity of H ₂ Evolution. Journal of Physical Chemistry C, 2012, 116, 3833-3839.	3.1	84
39	Carbon Nitride Polymers Sensitized with N-Doped Tantalum Acid for Visible Light-Induced Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2010, 114, 4100-4105.	3.1	76
40	Efficient photocatalytic CO ₂ reduction in all-inorganic aqueous environment: Cooperation between reaction medium and Cd(II) modified colloidal ZnS. Nano Energy, 2017, 34, 524-532.	16.0	74
41	Photoinduced Hydrophilic and Electrochemical Properties of Nitrogen-Doped TiO ₂ Films. Journal of the Electrochemical Society, 2005, 152, E351.	2.9	72
42	Fabrication of p-type CaFe ₂ O ₄ nanofilms for photoelectrochemical hydrogen generation. Electrochemistry Communications, 2011, 13, 275-278.	4.7	71
43	Photoelectrochemical Properties of Nanomultiple CaFe ₂ O ₄ /ZnFe ₂ O ₄ pn Junction Photoelectrodes. Langmuir, 2013, 29, 3116-3124.	3.5	69
44	Photocatalytic degradation of MB on MIn ₂ O ₄ (M=alkali earth metal) under visible light: effects of crystal and electronic structure on the photocatalytic activity. Catalysis Today, 2004, 93-95, 885-889.	4.4	58
45	Mesoporous In(OH) ₃ for photoreduction of CO ₂ into renewable hydrocarbon fuels. Applied Surface Science, 2013, 280, 418-423.	6.1	58
46	Facile ion-exchanged synthesis of Sn ²⁺ incorporated potassium titanate nanoribbons and their visible-light-responded photocatalytic activity. International Journal of Hydrogen Energy, 2011, 36, 4716-4723.	7.1	56
47	Crystal-facet-dependent hot-electron transfer in plasmonic-Au/semiconductor heterostructures for efficient solar photocatalysis. Journal of Materials Chemistry C, 2015, 3, 7538-7542.	5.5	55
48	Band structure design and photocatalytic activity of In ₂ O ₃ /InNbO ₄ composite. Applied Physics Letters, 2009, 95, .	3.3	49
49	An Ag ₃ PO ₄ /nitridized Sr ₂ Nb ₂ O ₇ composite photocatalyst with adjustable band structures for efficient elimination of gaseous organic pollutants under visible light irradiation. Nanoscale, 2014, 6, 7303-7311.	5.6	49
50	Enhanced photocatalytic activity of La-doped AgNbO ₃ under visible light irradiation. Dalton Transactions, 2009, , 2423.	3.3	48
51	Solar-driven production of hydrogen and acetaldehyde from ethanol on Ni-Cu bimetallic catalysts with solar-to-fuels conversion efficiency up to 3.8 %. Applied Catalysis B: Environmental, 2020, 272, 118965.	20.2	42
52	2-Propanol photodegradation over lead niobates under visible light irradiation. Applied Catalysis A: General, 2007, 326, 1-7.	4.3	40
53	Strong adsorption and effective photocatalytic activities of one-dimensional nano-structured silver titanates. Applied Catalysis A: General, 2010, 375, 85-91.	4.3	39
54	Selective local nitrogen doping in a TiO ₂ electrode for enhancing photoelectrochemical water splitting. Chemical Communications, 2012, 48, 8649.	4.1	37

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55	Nanoarchitectonics of a Au nanoprism array on WO ₃ film for synergistic optoelectronic response. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 044604.	6.1	34
56	WO ₃ modified titanate network film: highly efficient photo-mineralization of 2-propanol under visible light irradiation. <i>Chemical Communications</i> , 2010, 46, 5352.	4.1	32
57	Synthesis of hierarchical Ag ₂ ZnGeO ₄ hollow spheres for enhanced photocatalytic property. <i>Chemical Communications</i> , 2012, 48, 9894.	4.1	31
58	One-pot synthesis of peroxo-titania nanopowder and dual photochemical oxidation in aqueous methanol solution. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 132-137.	9.4	30
59	Photoanodic properties of pulsed-laser-deposited $\hat{\pm}$ -Fe ₂ O ₃ electrode. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 325101.	2.8	30
60	Undoped visible-light-sensitive titania photocatalyst. <i>Journal of Materials Science</i> , 2013, 48, 108-114.	3.7	30
61	PbS/CdS nanocrystal-sensitized titanate network films: enhanced photocatalytic activities and super-amphiphilicity. <i>Journal of Materials Chemistry</i> , 2010, 20, 10187.	6.7	25
62	Prevention against catalytic poisoning by H ₂ S utilizing TiO ₂ photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 131-135.	3.9	24
63	Synergistic effect of different phase on the photocatalytic activity of visible light sensitive silver antimonates. <i>Journal of Molecular Catalysis A</i> , 2010, 320, 79-84.	4.8	21
64	Adhesion and Sliding of Snow on Hydrophobic Solid Surface.. <i>Journal of the Ceramic Society of Japan</i> , 2002, 110, 186-192.	1.3	20
65	Photocatalytic oxidation of 2-propanol in the gas phase over cesium bismuth niobates under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2005, 31, 359-364.	2.7	20
66	Photocatalytic Decomposition of Acetaldehyde over Rubidium Bismuth Niobates under Visible Light Irradiation. <i>Materials Transactions</i> , 2005, 46, 2694-2698.	1.2	19
67	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO ₃ Nanoparticles Studied by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1292-1302.	3.1	19
68	Photoinduced Amphiphilic Property of InNbO ₄ Thin Film. <i>Langmuir</i> , 2007, 23, 1924-1927.	3.5	18
69	Enhancement of photocatalytic activity for WO ₃ by simple NaOH loading. <i>Applied Catalysis A: General</i> , 2014, 488, 183-188.	4.3	18
70	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie</i> , 2017, 129, 5662-5666.	2.0	17
71	Comparison of photocatalytic activities of two kinds of lead magnesium niobate for decomposition of organic compounds under visible-light irradiation. <i>Journal of Materials Research</i> , 2007, 22, 2590-2597.	2.6	14
72	Preparation and characterization of visible light sensitive Fe- and Ta-codoped TiO ₂ photocatalyst. <i>Journal of Materials Research</i> , 2010, 25, 110-116.	2.6	13

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73	Solid-base loaded WO ₃ photocatalyst for decomposition of harmful organics under visible light irradiation. APL Materials, 2015, 3, 104411.	5.1	13
74	Response to Comment on "High-Active Anatase TiO ₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H ₂ Evolution and CO ₂ Photoreduction" ACS Applied Materials & Interfaces, 2013, 5, 8262-8262.	8.0	11
75	Enhanced N-doping efficiency and photocatalytic H ₂ evolution rate of InNbO ₄ by mechanochemical activation. Journal of Materials Research, 2010, 25, 159-166.	2.6	10
76	Comparison of photocatalytic properties of a batch reactor with those of a flow reactor in a nearly controlled mass transport region. Research on Chemical Intermediates, 2005, 31, 371-378.	2.7	8
77	Ultrafine Zn _{1-x} Cu _x S (0 ≤ x ≤ 0.066) nanocrystallites for photocatalytic H ₂ evolution under visible light irradiation. RSC Advances, 2013, 3, 10654.	3.6	6
78	Photoassisted fabrication of zinc indium oxide/oxy sulfide composite for enhanced photocatalytic H ₂ evolution under visible-light irradiation. Science and Technology of Advanced Materials, 2012, 13, 055001.	6.1	5
79	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. SN Applied Sciences, 2019, 1, 1.	2.9	4
80	Photocatalytic activity of silver-loaded or unloaded titanium dioxide coating in the removal of hydrogen sulfide. Research on Chemical Intermediates, 2005, 31, 441-448.	2.7	3
81	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). Angewandte Chemie, 2017, 129, 5724-5724.	2.0	0