Tetsuya Kako

List of Publications by Year
in descending order

81	10,009	41344 49	54911 84
papers	citations	h-index	g-index

86	86	86	10797
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A selective Au-ZnO/TiO2 hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. Nature Catalysis, 2021, 4, 1032-1042.	34.4	156
2	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO₃ Nanoparticles Studied by Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 1292-1302.	3.1	19
3	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. ACS Catalysis, 2020, 10, 14318-14326.	11.2	114
4	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
5	Direct and Selective Photocatalytic Oxidation of CH₄ to Oxygenates with O₂ on Cocatalysts/ZnO at Room Temperature in Water. Journal of the American Chemical Society, 2019, 141, 20507-20515.	13.7	253
6	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. SN Applied Sciences, 2019, 1, 1.	2.9	4
7	Implantation of Iron(III) in porphyrinic metal organic frameworks for highly improved photocatalytic performance. Applied Catalysis B: Environmental, 2018, 224, 60-68.	20.2	125
8	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 408-416.	8.0	179
9	Visible-Light-Mediated Methane Activation for Steam Methane Reforming under Mild Conditions: A Case Study of Rh/TiO₂ Catalysts. ACS Catalysis, 2018, 8, 7556-7565.	11.2	126
10	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
11	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie, 2017, 129, 5662-5666.	2.0	17
12	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 5570-5574.	13.8	104
13	RÃ¼cktitelbild: Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). Angewandte Chemie, 2017, 129, 5724-5724.	2.0	0
14	Superior Photocatalytic H₂ Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. Advanced Materials, 2017, 29, 1703258.	21.0	188
15	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. Journal of the American Chemical Society, 2016, 138, 9128-9136.	13.7	341
16	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct pâ€“n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	14.9	583
17	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. Nano Energy, 2016, 28, 158-163.	16.0	94
18	Solid-base loaded WO₃ photocatalyst for decomposition of harmful organics under visible light irradiation. APL Materials, 2015, 3, 104411.	5.1	13

#	Article	IF	Citations
19	Natureâ€Inspired Environmental â€œPhosphorylationâ€•Boosts Photocatalytic H₂ Production over Carbon Nitride Nanosheets under Visibleâ€Light Irradiation. Angewandte Chemie - International Edition, 2015, 54, 13561-13565.	13.8	287
20	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
21	Band-structure-controlled BiO(ClBr)_{(1â^'x)/2}I_x solid solutions for visible-light photocatalysis. Journal of Materials Chemistry A, 2015, 3, 8123-8132.	10.3	114
22	Photothermal Conversion of CO₂ into CH₄ with H₂ over Groupâ€…VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. Angewandte Chemie - International Edition, 2014, 53, 11478-11482.	13.8	385
23	Enhancement of photocatalytic activity for WO3 by simple NaOH loading. Applied Catalysis A: General, 2014, 488, 183-188.	4.3	18
24	Constructing cubicâ€“orthorhombic surface-phase junctions of NaNbO₃ towards significant enhancement of CO₂ photoreduction. Journal of Materials Chemistry A, 2014, 2, 5606-5609.	10.3	93
25	Photocatalytic CO₂conversion over alkali modified TiO₂without loading noble metal cocatalyst. Chemical Communications, 2014, 50, 11517-11519.	4.1	162
26	An Ag₃PO₄/nitridized Sr₂Nb₂O₇ 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
27	Porous-structured Cu₂O/TiO₂ nanojunction material toward efficient CO₂ photoreduction. Nanotechnology, 2014, 25, 165402.	2.6	86
28	Ultrafine Zn1â^'xCuxS (0 â‰¤ x â‰¤ 0.066) nanocrystallites for photocatalytic H2 evolution under visible light irradiation. RSC Advances, 2013, 3, 10654.	3.6	6
29	Surface-coordination-induced selective synthesis of cubic and orthorhombic NaNbO₃and their photocatalytic properties. Journal of Materials Chemistry A, 2013, 1, 1185-1191.	10.3	89
30	Anatase TiO₂ Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H₂ Evolution. Chemistry of Materials, 2013, 25, 405-411.	6.7	248
31	Undoped visible-light-sensitive titania photocatalyst. Journal of Materials Science, 2013, 48, 108-114.	3.7	30
32	High-Active Anatase TiO₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H₂ Evolution and CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2013, 5, 1348-1354.	8.0	203
33	Mesoporous In(OH)3 for photoreduction of CO2 into renewable hydrocarbon fuels. Applied Surface Science, 2013, 280, 418-423.	6.1	58
34	An ion-exchange route for the synthesis of hierarchical In2S3/ZnIn2S4 bulk composite and its photocatalytic activity under visible-light irradiation. Dalton Transactions, 2013, 42, 2687.	3.3	86
35	A new heterojunction Ag3PO4/Cr-SrTiO3 photocatalyst towards efficient elimination of gaseous organic pollutants under visible light irradiation. Applied Catalysis B: Environmental, 2013, 134-135, 286-292.	20.2	123
36	Ag₃PO₄/In(OH)₃ Composite Photocatalysts with Adjustable Surface-Electric Property for Efficient Photodegradation of Organic Dyes under Simulated Solar-Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 17716-17724.	3.1	101

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37	Response to Comment on â€œHigh-Active Anatase TiO₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H₂ Evolution and CO₂ Photoreductionâ€• ACS Applied Materials & Interfaces, 2013, 5, 8262-8262.	8.0	11
38	Photoelectrochemical Properties of Nanomultiple CaFe₂O₄/ZnFe₂O₄ pn Junction Photoelectrodes. Langmuir, 2013, 29, 3116-3124.	3.5	69
39	Photoassisted fabrication of zinc indium oxide/oxysulfide composite for enhanced photocatalytic H₂evolution under visible-light irradiation. Science and Technology of Advanced Materials, 2012, 13, 055001.	6.1	5
40	Selective local nitrogen doping in a TiO2 electrode for enhancing photoelectrochemical water splitting. Chemical Communications, 2012, 48, 8649.	4.1	37
41	Size-Dependent Mieâ€™s Scattering Effect on TiO₂ Spheres for the Superior Photoactivity of H₂ Evolution. Journal of Physical Chemistry C, 2012, 116, 3833-3839.	3.1	84
42	The Effects of Crystal Structure and Electronic Structure on Photocatalytic H₂ Evolution and CO₂ Reduction over Two Phases of Perovskite-Structured NaNbO₃. Journal of Physical Chemistry C, 2012, 116, 7621-7628.	3.1	243
43	Synthesis of hierarchical Ag2ZnGeO4 hollow spheres for enhanced photocatalytic property. Chemical Communications, 2012, 48, 9894.	4.1	31
44	Mesoporous zinc germanium oxynitride for CO2photoreduction under visible light. Chemical Communications, 2012, 48, 1269-1271.	4.1	98
45	Hydrogen production using zinc-doped carbon nitride catalyst irradiated with visible light. Science and Technology of Advanced Materials, 2011, 12, 034401.	6.1	292
46	Ion-exchange synthesis of a micro/mesoporous Zn2GeO4 photocatalyst at room temperature for photoreduction of CO2. Chemical Communications, 2011, 47, 2041.	4.1	119
47	Enhanced Incident Photon-to-Electron Conversion Efficiency of Tungsten Trioxide Photoanodes Based on 3D-Photonic Crystal Design. ACS Nano, 2011, 5, 4310-4318.	14.6	267
48	Fabrication of p-type CaFe2O4 nanofilms for photoelectrochemical hydrogen generation. Electrochemistry Communications, 2011, 13, 275-278.	4.7	71
49	Facile ion-exchanged synthesis of Sn2+ incorporated potassium titanate nanoribbons and their visible-light-responded photocatalytic activity. International Journal of Hydrogen Energy, 2011, 36, 4716-4723.	7.1	56
50	Nanoarchitectonics of a Au nanoprism array on WO₃film for synergistic optoelectronic response. Science and Technology of Advanced Materials, 2011, 12, 044604.	6.1	34
51	Synergistic effect of different phase on the photocatalytic activity of visible light sensitive silver antimonates. Journal of Molecular Catalysis A, 2010, 320, 79-84.	4.8	21
52	Strong adsorption and effective photocatalytic activities of one-dimensional nano-structured silver titanates. Applied Catalysis A: General, 2010, 375, 85-91.	4.3	39
53	An orthophosphate semiconductor with photooxidation properties under visible-lightÂirradiation. Nature Materials, 2010, 9, 559-564.	27.5	1,807
54	Preparation and characterization of visible light sensitive Fe- and Ta-codoped TiO2 photocatalyst. Journal of Materials Research, 2010, 25, 110-116.	2.6	13

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55	Photoanodic properties of pulsed-laser-deposited Î±-Fe₂O₃ electrode. Journal Physics D: Applied Physics, 2010, 43, 325101.	2.8	30
56	Enhanced N-doping efficiency and photocatalytic H₂ evolution rate of InNbO₄ by mechanochemical activation. Journal of Materials Research, 2010, 25, 159-166.	2.6	10
57	PbS/CdS nanocrystal-sensitized titanate network films: enhanced photocatalytic activities and super-amphiphilicity. Journal of Materials Chemistry, 2010, 20, 10187.	6.7	25
58	Synthesis and Photocatalytic Activities of NaNbO₃ Rods Modified by In₂O₃ Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 6157-6162.	3.1	159
59	Carbon Nitride Polymers Sensitized with N-Doped Tantalic Acid for Visible Light-Induced Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2010, 114, 4100-4105.	3.1	76
60	WO3 modified titanate network film: highly efficient photo-mineralization of 2-propanol under visible light irradiation. Chemical Communications, 2010, 46, 5352.	4.1	32
61	Band structure design and photocatalytic activity of In2O3/Nâ€“InNbO4 composite. Applied Physics Letters, 2009, 95, .	3.3	49
62	One-pot synthesis of peroxo-titania nanopowder and dual photochemical oxidation in aqueous methanol solution. Journal of Colloid and Interface Science, 2009, 331, 132-137.	9.4	30
63	New Series of Solid-Solution Semiconductors (AgNbO₃)_{1â^'x}(SrTiO₃)_x with Modulated Band Structure and Enhanced Visible-Light Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 3785-3792.	3.1	116
64	Enhanced photocatalytic activity of La-doped AgNbO3 under visible light irradiation. Dalton Transactions, 2009, , 2423.	3.3	48
65	Synthesis and enhanced photocatalytic activity of NaNbO3 prepared by hydrothermal and polymerized complex methods. Journal of Physics and Chemistry of Solids, 2008, 69, 2487-2491.	4.0	91
66	Photocatalytic activities of AgSbO3 under visible light irradiation. Catalysis Today, 2008, 131, 197-202.	4.4	121
67	Efficient Photocatalytic Decomposition of Acetaldehyde over a Solid-Solution Perovskite (Ag_{0.75}Sr_{0.25})(Nb_{0.75}Ti_{0.25})O₃ under Visible-Light Irradiation. Journal of the American Chemical Society, 2008, 130, 2724-2725.	13.7	291
68	Comparison of photocatalytic activities of two kinds of lead magnesium niobate for decomposition of organic compounds under visible-light irradiation. Journal of Materials Research, 2007, 22, 2590-2597.	2.6	14
69	Decomposition of Organic Compounds over NaBiO3 under Visible Light Irradiation. Chemistry of Materials, 2007, 19, 198-202.	6.7	176
70	Photoinduced Amphiphilic Property of InNbO4Thin Film. Langmuir, 2007, 23, 1924-1927.	3.5	18
71	2-Propanol photodegradation over lead niobates under visible light irradiation. Applied Catalysis A: General, 2007, 326, 1-7.	4.3	40
72	Composition dependence of the photophysical and photocatalytic properties of (AgNbO3)1â^'x(NaNbO3)x solid solutions. Journal of Solid State Chemistry, 2007, 180, 2845-2850.	2.9	98

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73	Photophysical and Photocatalytic Properties of SrTiO3Doped with Cr Cations on Different Sites. Journal of Physical Chemistry B, 2006, 110, 15824-15830.	2.6	325
74	Photocatalytic Decomposition of Acetaldehyde over Rubidium Bismuth Niobates under Visible Light Irradiation. Materials Transactions, 2005, 46, 2694-2698.	1.2	19
75	Prevention against catalytic poisoning by H2S utilizing TiO2 photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 171, 131-135.	3.9	24
76	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
77	Photocatalytic oxidation of 2-propanol in the gas phase over cesium bismuth niobates under visible light irradiation. Research on Chemical Intermediates, 2005, 31, 359-364.	2.7	20
78	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
79	Photoinduced Hydrophilic and Electrochemical Properties of Nitrogen-Doped TiO[sub 2] Films. Journal of the Electrochemical Society, 2005, 152, E351.	2.9	72
80	Photocatalytic degradation of MB on MIn2O4 (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
81	Adhesion and Sliding of Snow on Hydrophobic Solid Surface.. Journal of the Ceramic Society of Japan, 2002, 110, 186-192.	1.3	20