

Takashi Kamegawa

List of Publications by Citations

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70
papers

2,716
citations

27
h-index

51
g-index

71
ext. papers

2,946
ext. citations

7
avg, IF

5.21
L-index

#	Paper	IF	Citations
70	Superhydrophobic surfaces with photocatalytic self-cleaning properties by nanocomposite coating of TiO ₂ and polytetrafluoroethylene. <i>Advanced Materials</i> , 2012 , 24, 3697-700	24	242
69	The synthesis of size- and color-controlled silver nanoparticles by using microwave heating and their enhanced catalytic activity by localized surface plasmon resonance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7446-50	16.4	205
68	Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. <i>Chemical Communications</i> , 2014 , 50, 11645-8	5.8	168
67	Graphene Coating of TiO ₂ Nanoparticles Loaded on Mesoporous Silica for Enhancement of Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15049-15053	3.8	139
66	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. <i>Chemical Society Reviews</i> , 2018 , 47, 8072-8096	58.5	129
65	A visible-light-harvesting assembly with a sulfocalixarene linker between dyes and a Pt-TiO ₂ photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 916-9	16.4	127
64	Preparation of hydroxynaphthalene-modified TiO ₂ via formation of surface complexes and their applications in the photocatalytic reduction of nitrobenzene under visible-light irradiation. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6635-9	9.5	107
63	A novel conversion process for waste slag: synthesis of a hydrotalcite-like compound and zeolite from blast furnace slag and evaluation of adsorption capacities. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5052		98
62	Design and functionalization of photocatalytic systems within mesoporous silica. <i>ChemSusChem</i> , 2014 , 7, 1528-36	8.3	89
61	TiO ₂ photocatalyst for degradation of organic compounds in water and air supported on highly hydrophobic FAU zeolite: Structural, sorptive, and photocatalytic studies. <i>Journal of Catalysis</i> , 2012 , 285, 223-234	7.3	87
60	Hydrophobic Modification of a Mesoporous Silica Surface Using a Fluorine-Containing Silylation Agent and Its Application as an Advantageous Host Material for the TiO ₂ Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1552-1559	3.8	87
59	Enhanced catalytic activity on titanosilicate molecular sieves controlled by cation-π interactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12462-5	16.4	84
58	Design of macroporous TiO ₂ thin film photocatalysts with enhanced photofunctional properties. <i>Energy and Environmental Science</i> , 2011 , 4, 1411	35.4	62
57	Enhanced photocatalytic properties of TiO ₂ -loaded porous silica with hierarchical macroporous and mesoporous architectures in water purification. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2323-2330	13	61
56	Fabrication of hydrophobic zeolites using triethoxyfluorosilane and their application as supports for TiO ₂ photocatalysts. <i>Chemical Communications</i> , 2008 , 4783-5	5.8	58
55	Design of TiO ₂ -zeolite composites with enhanced photocatalytic performances under irradiation of UV and visible light. <i>Microporous and Mesoporous Materials</i> , 2013 , 165, 142-147	5.3	56
54	Preparation and characterization of unique inorganic-organic hybrid mesoporous materials incorporating arenetricarbonyl complexes [-C ₆ H ₄ M(CO) ₃ -] (M = Cr, Mo). <i>Journal of the American Chemical Society</i> , 2005 , 127, 16784-5	16.4	56

53	Transesterifications using a hydrocalumite synthesized from waste slag: an economical and ecological route for biofuel production. <i>Catalysis Science and Technology</i> , 2012 , 2, 1842	5.5	55
52	Surfactant-Free Nonaqueous Synthesis of Plasmonic Molybdenum Oxide Nanosheets with Enhanced Catalytic Activity for Hydrogen Generation from Ammonia Borane under Visible Light. <i>Angewandte Chemie</i> , 2014 , 126, 2954-2958	3.6	53
51	Synthesis and unique catalytic performance of single-site Ti-containing hierarchical macroporous silica with mesoporous frameworks. <i>Langmuir</i> , 2011 , 27, 2873-9	4	48
50	A novel synthetic route to hydroxyapatite/zeolite composite material from steel slag: investigation of synthesis mechanism and evaluation of physicochemical properties. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7263		45
49	Enhanced hydrogenation activity of nano-sized Pd/Ni bimetal particles on Ti-containing mesoporous silica prepared by a photo-assisted deposition method. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16243		42
48	The Synthesis of Size- and Color-Controlled Silver Nanoparticles by Using Microwave Heating and their Enhanced Catalytic Activity by Localized Surface Plasmon Resonance. <i>Angewandte Chemie</i> , 2013 , 125, 7594-7598	3.6	42
47	Active site design in a core-shell nanostructured catalyst for a one-pot oxidation reaction. <i>Chemistry - A European Journal</i> , 2011 , 17, 9047-51	4.8	42
46	Size-controlled synthesis of silver nanoparticles on Ti-containing mesoporous silica thin film and photoluminescence enhancement of rhodamine 6G dyes by surface plasmon resonance. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6745		38
45	Structural Design of Pd/SiO ₂ @Ti-Containing Mesoporous Silica Core/Shell Catalyst for Efficient One-Pot Oxidation Using in Situ Produced H ₂ O ₂ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14360-14367	3.8	34
44	Multifunctional surface designed by nanocomposite coating of polytetrafluoroethylene and TiO ₂ photocatalyst: self-cleaning and superhydrophobicity. <i>Scientific Reports</i> , 2017 , 7, 13628	4.9	29
43	Activity, Recyclability, and Stability of Lipases Immobilized on Oil-Filled Spherical Silica Nanoparticles with Different Silica Shell Structures. <i>ChemCatChem</i> , 2013 , 5, 2527-2536	5.2	22
42	Preparation of single-site Ti-containing mesoporous silica with a nanotube architecture and its enhanced catalytic activities. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 891-897	13	22
41	Photocatalytic performance of TiO ₂ -zeolite templated carbon composites in organic contaminant degradation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25004-7	3.6	22
40	Low-temperature synthesis of highly hydrophilic Ti-containing mesoporous silica thin films on polymer substrates by photocatalytic removal of structure-directing agents. <i>Journal of Materials Chemistry</i> , 2011 , 21, 236-241		21
39	Design of composite photocatalyst of TiO ₂ and Y-zeolite for degradation of 2-propanol in the gas phase under UV and visible light irradiation. <i>Molecules</i> , 2014 , 19, 16477-88	4.8	19
38	Design of single-site Ti embedded highly hydrophilic silica thin films with macro-mesoporous structures. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4561-5	9.5	19
37	Synthesis of Nano-Sized Platinum Metal Particles on Ti-Containing Mesoporous Silica Using Microwave-Assisted Deposition Method. <i>Topics in Catalysis</i> , 2010 , 53, 218-223	2.3	19
36	Preparation of inorganic/organic hybrid mesoporous material incorporating organoruthenium complexes ([C ₆ H ₄ RuCp]PF ₆) and its application as a heterogeneous catalyst. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12228		17

35	An efficient method for the creation of a superhydrophobic surface: ethylene polymerization over self-assembled colloidal silica nanoparticles incorporating single-site Cr-oxide catalysts. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8543		17
34	Reactivity of Ni-Carbon Nanofibers/Mesocellular Silica Composite Catalyst for Phenylacetylene Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10105-10111	3.9	16
33	A Visible-Light-Harvesting Assembly with a Sulfocalixarene Linker between Dyes and a Pt-TiO ₂ Photocatalyst. <i>Angewandte Chemie</i> , 2013 , 125, 950-953	3.6	16
32	Design of superhydrophobic surfaces by synthesis of carbon nanotubes over Co-Mo nanocatalysts deposited under microwave irradiation on Ti-containing mesoporous silica thin films. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6309-14	3.6	15
31	Controlled Synthesis and Surface Hydrophilic Properties of Ti-Containing Mesoporous Silica Thin Films Using Various Structure-Directing Agents. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15410-15415	3.8	14
30	Application of Microwave-Assisted Deposition for the Synthesis of Noble Metal Particles on Ti-Containing Mesoporous Silica. <i>Catalysis Letters</i> , 2009 , 129, 404-407	2.8	14
29	Preparation of aluminum-containing mesoporous silica with hierarchical macroporous architecture and its enhanced catalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13323-8	3.6	13
28	Preparation of Cr/Ti Binary Oxide Anchored Mesoporous Silica by CVD Method and Their Photocatalytic Activities. <i>Topics in Catalysis</i> , 2010 , 53, 555-559	2.3	13
27	Design of superhydrophilic surfaces on metallic substrates by the fabrication of Ti-containing mesoporous silica thin film. <i>Applied Catalysis A: General</i> , 2010 , 387, 95-99	5.1	13
26	Preferential Oxidation of CO Impurities in the Presence of H ₂ on NiO-Loaded and Unloaded TiO ₂ Photocatalysts at 293 K. <i>Catalysis Letters</i> , 2009 , 129, 7-11	2.8	12
25	Fabrication of Hydrophobic Zeolites Using Triethoxyfluorosilane and their Application for Photocatalytic Degradation of Acetaldehyde. <i>Topics in Catalysis</i> , 2009 , 52, 643-648	2.3	11
24	Hydroxylation of Phenol on Iron-Containing Mesoporous Silica with Hierarchical Macroporous Architecture. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 572-574	5.1	10
23	Preparation of Skeletal Cu Catalysts by Thermal and Chemical Treatment of Cu/Ti Amorphous Alloys and Their Enhanced Catalytic Activities. <i>Bulletin of the Chemical Society of Japan</i> , 2013 , 86, 1002-1004	5.1	10
22	Preparation of Thin Macroporous TiO ₂ Films Using PMMA Microspheres and Their Photoinduced Hydrophilicities. <i>Chemistry Letters</i> , 2009 , 38, 610-611	1.7	9
21	Photocatalytic selective oxidation of CO with O ₂ in the presence of H ₂ over highly dispersed chromium oxide on silica under visible or solar light irradiation. <i>Research on Chemical Intermediates</i> , 2008 , 34, 427-434	2.8	9
20	Photoelectrochemical properties of copper oxide (CuO) influenced by work functions of conductive electrodes. <i>Research on Chemical Intermediates</i> , 2019 , 45, 5947-5958	2.8	8
19	Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , 2021 , 63, 165-233	12.6	8
18	Unique Surface Properties of Nanocomposite Thin Film Photocatalysts of TiO ₂ and Poly(tetrafluoroethylene). <i>Chemistry Letters</i> , 2015 , 44, 509-511	1.7	7

17	Preparation of Size-controlled Copper-nanoparticle-supported Catalyst Using Rapid and Uniform Heating under Microwave Irradiation. <i>Chemistry Letters</i> , 2012 , 41, 614-616	1.7	7
16	Spherical TiO ₂ /Mesoporous SiO ₂ Core/Shell Type Photocatalyst for Water Purification. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9273-9277	1.3	7
15	TiO superstructures with oriented nanospaces: a strategy for efficient and selective photocatalysis. <i>Nanoscale</i> , 2020 , 12, 6420-6428	7.7	6
14	Preparation of W-Containing Mesoporous Silica Thin Films and Their Surface Hydrophilic Properties. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009 , 7, 141-144	0.7	6
13	Construction of an organoruthenium complex ([biphRuCp]PF ₆) within a biphenylene-bridged inorganic-organic hybrid mesoporous material, and its catalytic activity in the selective hydrosilylation of 1-hexyne. <i>Research on Chemical Intermediates</i> , 2014 , 40, 105-113	2.8	5
12	Simple Design of Hydrophobic Zeolite Material by Modification Using TEFS and its Application as a Support of TiO ₂ Photocatalyst. <i>Topics in Catalysis</i> , 2009 , 52, 193-196	2.3	5
11	Design and Functionalization of Photocatalytic Systems within Mesoporous Silica. <i>ChemSusChem</i> , 2014 , 7, 1495-1495	8.3	3
10	Coating of Transparent Ti-containing Mesoporous Silica Thin Films on Quartz and Aluminum Alloy Substrates for Fabrication of Highly Hydrophilic Surfaces. <i>ISIJ International</i> , 2010 , 50, 255-258	1.7	3
9	Photocatalytic Decomposition of Lactic Acid in Water on a Photoelectrochemical Circuit System Consisting of a Rod-type TiO ₂ Electrode and Silicon Solar Cell. <i>Topics in Catalysis</i> , 2008 , 47, 162-165	2.3	3
8	Design of Advanced Functional Materials Using Nanoporous Single-Site Photocatalysts. <i>Chemical Record</i> , 2020 , 20, 660-671	6.6	3
7	Heterogeneous Fenton Degradation of Organic Pollutants in Water Enhanced by Combining Iron-type Layered Double Hydroxide and Sulfate. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1887-1892	4.5	3
6	Synthesis of SiO ₂ -TiO ₂ fibers with photocatalytic activity by TiCl ₄ vapor curing on melt-spun silicone resin fiber. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 544-547	1	2
5	Enhanced Catalysis of Plasmonic Silver Nanoparticles by a Combination of Macro-/Mesoporous Nanostructured Silica Support. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9150-9157	3.8	2
4	Hydrogenation of Phenol Using Silica-Supported Pd and PdAu Catalysts in the Presence of H ₂ and O ₂ . <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 1057-1059	5.1	1
3	Metamagnetic Behavior in a Quadruple Perovskite Oxide. <i>Inorganic Chemistry</i> , 2021 , 60, 7023-7030	5.1	1
2	Photoluminescence Spectroscopy and Its Application to the Characterization of Active Sites and Reaction Dynamics in Catalysis 2008 , 1065		
1	Synthesis of Flower-Like Structured Calcium Silicide and Its Application in the Preparation of Palladium-Loaded Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 2089-2091	5.1	