

Shi-Zhao Kang

List of Publications by Year in descending order

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304743

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all docs

87
docs citations

87
times ranked

2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of C ₆₀ on the Photocatalytic Activity of TiO ₂ Nanorods. Journal of Physical Chemistry C, 2009, 113, 13899-13905.	3.1	93
2	A novel copper-bridged graphitic carbon nitride/porphyrin nanocomposite with dramatically enhanced photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2020, 268, 118434.	20.2	71
3	A highly active nano-micro hybrid derived from Cu-bridged TiO ₂ /porphyrin for enhanced photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2019, 243, 1-9.	20.2	64
4	Fabrication of an efficient noble metal-free TiO ₂ -based photocatalytic system using Cu-Ni bimetallic deposit as an active center of H ₂ evolution from water. Solar Energy Materials and Solar Cells, 2015, 134, 309-317.	6.2	60
5	Highly efficient graphene oxide/porphyrin photocatalysts for hydrogen evolution and the interfacial electron transfer. Applied Catalysis B: Environmental, 2016, 187, 67-74.	20.2	53
6	An Efficient Noble-Metal-Free Photocatalyst for Visible-Light-Driven H ₂ Evolution: Cu/Ni-Codoped Cd _{0.5} Zn _{0.5} S Nanoplates. ACS Sustainable Chemistry and Engineering, 2017, 5, 1165-1172.	6.7	46
7	TiO ₂ nanoparticles incorporated with CuInS ₂ clusters: preparation and photocatalytic activity for degradation of 4-nitrophenol. Journal of Solid State Chemistry, 2009, 182, 2972-2976.	2.9	43
8	TiO ₂ nanosheets loaded with Cu: A low-cost efficient photocatalytic system for hydrogen evolution from water. International Journal of Hydrogen Energy, 2014, 39, 15403-15410.	7.1	43
9	Assembly mechanism and photoproduced electron transfer for a novel cubic Cu ₂ O/tetrakis(4-hydroxyphenyl)porphyrin hybrid with visible photocatalytic activity for hydrogen evolution. Applied Catalysis B: Environmental, 2017, 211, 296-304.	20.2	37
10	Facile assembly of silica gel/reduced graphene oxide/Ag nanoparticle composite with a core-shell structure and its excellent catalytic properties. Journal of Materials Chemistry A, 2014, 2, 2952.	10.3	34
11	Composite photocatalyst containing Eosin Y and multiwalled carbon nanotubes loaded with CuO/NiO: Mixed metal oxide as an active center of H ₂ evolution from water. Applied Surface Science, 2012, 258, 6029-6033.	6.1	32
12	Dramatic enhancement of the photocatalytic activity of Cd _{0.5} Zn _{0.5} S nanosheets via phosphorization calcination for visible-light-driven H ₂ evolution. Journal of Materials Chemistry A, 2017, 5, 14682-14688.	10.3	32
13	Fabrication mechanism and photocatalytic activity for a novel graphene oxide hybrid functionalized with tetrakis-(4-hydroxyphenyl)porphyrin and 1-pyrenesulfonic acid. Applied Surface Science, 2018, 427, 15-23.	6.1	31
14	The influence of combination mode on the structure and properties of porphyrin-graphene oxide composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 45-52.	4.7	30
15	A facile preparation of multiwalled carbon nanotubes modified with hydroxyl groups and their high dispersibility in ethanol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 363-367.	4.7	27
16	Differences between Zn-porphyrin-coupled titanate nanotubes with various anchoring modes: Thermostability, spectroscopic, photocatalytic and photoelectronic properties. Applied Surface Science, 2011, 257, 5950-5956.	6.1	27
17	Titanate nanotubes co-sensitized with cadmium sulfide nanoparticles and porphyrin zinc: Preparation and enhanced photocatalytic activity under visible light. Catalysis Communications, 2012, 17, 136-139.	3.3	27
18	A facile preparation of crystalline GeS ₂ nanoplates and their photocatalytic activity. Journal of Alloys and Compounds, 2015, 631, 21-25.	5.5	27

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19	Low temperature biomimetic synthesis of the Li ₂ ZrO ₃ nanoparticles containing Li ₆ Zr ₂ O ₇ and high temperature CO ₂ capture. <i>Materials Letters</i> , 2010, 64, 1404-1406.	2.6	26
20	Preparation of high quality Ag film from Ag nanoparticles. <i>Applied Surface Science</i> , 2007, 253, 4677-4679.	6.1	25
21	Electrochemical behavior of eugenol on TiO ₂ nanotubes improved with Cu ₂ O clusters. <i>RSC Advances</i> , 2014, 4, 538-543.	3.6	25
22	Cu nanoclusters incorporated mesoporous TiO ₂ nanoparticles: An efficient and stable noble metal-free photocatalyst for light driven H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6461-6473.	7.1	24
23	Enhanced electron transfer and photocatalytic hydrogen production over the carbon nitride/porphyrin nanohybrid finely bridged by special copper. <i>Catalysis Science and Technology</i> , 2020, 10, 1640-1649.	4.1	23
24	CoO/CoP composite hollow polyhedron: A superior catalyst with dramatic efficiency and stability for the room temperature reduction of 4-nitrophenol. <i>Applied Surface Science</i> , 2018, 434, 967-974.	6.1	22
25	Preparation of l-alanine ethyl ester modified multiwalled carbon nanotubes and their chiral discrimination between d- and l-tryptophan. <i>Diamond and Related Materials</i> , 2010, 19, 1221-1224.	3.9	21
26	Preparation of per-hydroxylated pillar[5]arene decorated graphene and its electrochemical behavior. <i>Electrochimica Acta</i> , 2016, 210, 720-728.	5.2	21
27	An efficient photocatalytic system containing Eosin Y, 3D mesoporous graphene assembly and CuO for visible-light-driven H ₂ evolution from water. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15540-15550.	7.1	21
28	Graphene quantum dots supported by graphene oxide as a sensitive fluorescence nanosensor for cytochrome c detection and intracellular imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6300-6306.	5.8	20
29	Ag nanoparticles decorated mesh-like MoS ₂ hierarchical nanostructure fabricated on Ti foil: A highly sensitive SERS substrate for detection of trace malachite green in flowing water. <i>Applied Surface Science</i> , 2020, 509, 145331.	6.1	20
30	High sensitivity to Cu ²⁺ ions of electrodes coated with ethylenediamine-modified multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2006, 17, 4825-4829.	2.6	19
31	Synergetic effect of Cu-Pt bimetallic cocatalyst on SrTiO ₃ for efficient photocatalytic hydrogen production from water. <i>RSC Advances</i> , 2015, 5, 102593-102598.	3.6	19
32	Remarkable enhancement of the photocatalytic activity of ZnO nanorod array by utilizing energy transfer between Eosin Y and Rose Bengal for visible light-driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15255-15261.	7.1	19
33	Solvothermal synthesis of SnO ₂ nanoparticles via oxidation of Sn ²⁺ ions at the water-oil interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 298, 280-283.	4.7	18
34	An Ultrasensitive, Disposable, and "Plug and Play" Surface-Enhanced Raman Scattering Substrate for the In Situ Detection of Trace Thiram in Water. <i>ACS Applied Nano Materials</i> , 2018, 1, 4955-4963.	5.0	18
35	Ti mesh loaded with Ag nanobosk: A highly sensitive Raman sensing platform for trace norfloxacin in water. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 163-171.	7.8	18
36	The study of a novel cobalt-implanted pyridylporphyrin/graphene oxide nanohybrid for enhanced photocatalytic hydrogen evolution and its electron transfer mechanism. <i>Nanoscale</i> , 2018, 10, 18635-18641.	5.6	17

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37	A stable and plug-and-play aluminium/titanium dioxide/metal-organic framework/silver composite sheet for sensitive Raman detection and photocatalytic removal of 4-aminothiophenol. <i>Chemosphere</i> , 2021, 282, 131000.	8.2	17
38	Facile preparation of Ti ³⁺ self-doped TiO ₂ nanoparticles and their dramatic visible photocatalytic activity for the fast treatment of highly concentrated Cr(VI) effluent. <i>Catalysis Science and Technology</i> , 2019, 9, 2523-2531.	4.1	16
39	AgGaS ₂ nanoplates loaded with CuS: An efficient visible photocatalyst for rapid H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4119-4128.	7.1	15
40	Multi-layered mesh-like MoS ₂ hierarchical nanostructure fabricated on Ti foil: An efficient noble metal-free photocatalyst for visible-light-driven H ₂ evolution from water. <i>Catalysis Communications</i> , 2016, 82, 7-10.	3.3	15
41	Noble-Metal-Free Copper Nanoparticles/Reduced Graphene Oxide Composite: A New and Highly Efficient Catalyst for Transformation of 4-Nitrophenol. <i>Catalysis Letters</i> , 2017, 147, 1315-1321.	2.6	15
42	A novel pathway toward efficient and stable C ₃ N ₄ -based photocatalyst for light driven H ₂ evolution: The synergistic effect between Pt and CoWO ₄ . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28113-28122.	7.1	15
43	Novel and Highly Active Potassium Niobate-Based Photocatalyst for Dramatically Enhanced Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8591-8598.	6.7	14
44	Facile Preparation of Ag ₂ ZnGeO ₄ Flower-like Hierarchical Nanostructure and Its Photocatalytic Activity. <i>Journal of Materials Science and Technology</i> , 2017, 33, 47-51.	10.7	13
45	CuWO _{4-x} nanoparticles incorporated brookite TiO ₂ porous nanospheres: Preparation and dramatic photocatalytic activity for light driven H ₂ generation. <i>Materials Research Bulletin</i> , 2021, 136, 111171.	5.2	13
46	An efficient photocatalyst used in a continuous flow system for hydrogen evolution from water: TiO ₂ nanotube arrays fabricated on Ti meshes. <i>RSC Advances</i> , 2015, 5, 6954-6961.	3.6	12
47	Graphene/Pyridylporphyrin Hybrids Interfacially Linked with Rare Earth Ions for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8358-8366.	6.7	12
48	Modifications of morphology and hydrogen evolution activity for the potassium niobate nanoscrolls by introducing reduced graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14297-14304.	7.1	11
49	Cubic Cuprous Oxide-Based Nanocomposites for Photocatalytic Hydrogen Generation. <i>ACS Applied Nano Materials</i> , 2019, 2, 7409-7420.	5.0	11
50	C ₃ N ₄ nanosheets loaded with the CuWO ₄ activated NiS co-catalyst: A stable noble metal-free photocatalyst with dramatic photocatalytic activity for H ₂ generation and high salinity tolerant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 405, 112919.	3.9	11
51	Electrodes modified with multiwalled carbon nanotubes carrying Fe ₃ O ₄ beads: High sensitivity to H ₂ O ₂ . <i>Solid State Sciences</i> , 2011, 13, 142-145.	3.2	9
52	Fabrication of antennae-like nanoheterostructure attached by porphyrin for increased photocatalytic hydrogen generation and electron transfer mechanism. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6508-6518.	7.1	9
53	A novel three-dimensional pyridine-pillared graphene assembly for enhanced electron transfer and photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2018, 8, 2818-2824.	4.1	7
54	Photocatalytic activity and the electron transport mechanism of titanium dioxide microsphere/porphyrin implanted with small size copper. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13528-13535.	2.8	7

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55	Aluminum sheet induced flower-like carbon nitride anchored with silver nanowires for highly efficient SERS detection of trace malachite green. <i>Environmental Research</i> , 2022, 204, 112289.	7.5	7
56	Rapid and efficient photocatalytic reduction of hexavalent chromium by using "water dispersible" TiO ₂ nanoparticles. <i>Materials Chemistry and Physics</i> , 2016, 178, 190-195.	4.0	6
57	A novel AuNPs-based nanosensors for smart detection of NO with low concentration. <i>Talanta</i> , 2019, 191, 457-460.	5.5	6
58	Preparation and surface enhanced Raman scattering behavior of Ag-coated C60 nanoclusters. <i>Applied Surface Science</i> , 2013, 286, 275-279.	6.1	5
59	Synergistic effect between eosin Y and rhodamine B on a photoelectrode coated with Pt nanoparticle-decorated graphene. <i>RSC Advances</i> , 2015, 5, 105969-105979.	3.6	5
60	The strong dependence of the bi-functionalities of core-shell-like gold-based nanocomposites on the size of gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11411-11415.	5.5	5
61	A novel cobalt ion implanted pyridylporphyrin/graphene oxide assembly for enhanced photocatalytic hydrogen production. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018, 22, 877-885.	0.8	5
62	Preparation of an Ni ₅ P ₄ /Ni porous composite using a Ni foam as the skeleton and its application in the treatment of large-volume effluent with a high concentration of 4-nitrophenol at room temperature. <i>New Journal of Chemistry</i> , 2019, 43, 9673-9679.	2.8	5
63	Two dimensional porphyrin-based metal-organic framework constructed on K ₄ Nb ₆ O ₁₇ microflowers for highly efficient charge transfer and photocatalytic hydrogen generation. <i>Applied Surface Science</i> , 2022, 599, 153922.	6.1	5
64	Facile assembly of a polystyrene microsphere/graphene oxide/porphyrin composite with core-shell structure. <i>RSC Advances</i> , 2014, 4, 37854-37858.	3.6	4
65	The assembly and photoelectronic property of reduced graphene oxide/porphyrin/phthalocyanine composite films. <i>RSC Advances</i> , 2015, 5, 42063-42068.	3.6	4
66	Dramatically enhanced photocatalytic hydrogen production over pompoms-like cadmium molybdate nano-micro hybrids modulated by copper ions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8273-8278.	7.1	4
67	Facile assembly and improved photocatalytic activity of a special cuprous oxide/copper fluoride heterojunction induced by graphene oxide. <i>Materials Advances</i> , 2021, 2, 2000-2008.	5.4	4
68	Boosting charge separation and nitrogen vacancies in graphitic carbon nitride by implanted strontium vanadate for highly efficient photocatalytic reduction of hexavalent chromium. <i>RSC Advances</i> , 2021, 11, 16034-16039.	3.6	4
69	Facile construction of carbon nitride/cobalt ion/eosin Y nanohybrids for enhanced interaction and photocatalytic hydrogen production. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126123.	4.7	4
70	Aluminum sheet-induced porous zinc oxide nanosheets decorated with silver nanoparticles for ultrasensitive SERS sensing of crystal violet. <i>Materials Advances</i> , 2022, 3, 2583-2590.	5.4	4
71	Preparation of water-dispersible TiO ₂ nanoparticles. <i>Micro and Nano Letters</i> , 2014, 9, 940-943.	1.3	3
72	Redox heme-proteins mediated fluorescence of CdSe/ZnS quantum dots. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 133, 65-72.	3.8	3

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73	Self-directedly assembled porphyrin thin films with high photoactivity. RSC Advances, 2015, 5, 94046-94052.	3.6	3
74	Facile Preparation of Fe ₃ O ₄ /Carbon Nanocomposite With High Lithium Storage Capacity. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 647-652.	0.6	3
75	Preparation of 4,4-bipyridine covalently-linked graphene monolith and its photocatalytic behavior in light-driven H ₂ evolution from water. Catalysis Communications, 2017, 97, 151-154.	3.3	3
76	A renewable photocatalytic system with dramatic photocatalytic activity for H ₂ evolution and constant light energy utilization: eosin Y sensitized ZnWO ₄ nanoplates loaded with CuO nanoparticles. New Journal of Chemistry, 2021, 45, 17266-17277.	2.8	3
77	Eosin Y Sensitized ZnO Nanograss for Visible-Light-Driven H ₂ Evolution from Water. Catalysis Letters, 2015, 145, 1307-1311.	2.6	2
78	Dramatically Enhanced Photocatalytic Activity of TiO ₂ Composite Microspheres by Loading Special Copper Nanocrystalline. Catalysis Letters, 2020, 150, 1368-1372.	2.6	2
79	Preparation of worm-like SnS ₂ nanoparticles and their photocatalytic activity. Journal of Experimental Nanoscience, 2020, 15, 100-108.	2.4	2
80	Hydroxylporphyrin/NiO nanosheet nanocomposite with strong interfacial interaction for highly efficient hydrogen generation. Journal of Solid State Chemistry, 2021, 298, 122103.	2.9	2
81	An efficient catalyst for rapid restoration of highly concentrated 4-nitrophenol effluent at room temperature: ZnWO ₄ nanoplates loaded with CuO nanoparticles. Journal of Physics and Chemistry of Solids, 2022, 163, 110595.	4.0	2
82	Nickel(II)-ethylenediamine tetraacetic acid sensitized silicon nanowire array: an efficient cocatalyst-free photocatalyst for photocatalytic hydrogen generation under simulated sunlight irradiation. RSC Advances, 2015, 5, 65660-65667.	3.6	1
83	An Efficient Catalyst for Restoration of Large Volume Effluent Containing 4-Nitrophenol at Room Temperature. Nano, 2018, 13, 1850101.	1.0	1
84	Boosting the photocatalytic H ₂ production performance and stability of C ₃ N ₄ nanosheets via the synergistic effect between SnO ₂ nanoparticles and Pt nanoclusters. Inorganic Chemistry Communication, 2021, 133, 108976.	3.9	1
85	Facile fabrication of a novel pyridinylethyne/titanium dioxide nanotube hybrid with high photoelectronic performance. Materials Letters, 2018, 231, 98-100.	2.6	0
86	Ti mesh loaded with multibranch Ag "bushes" Preparation and high sensitivity to 5-nitroguaiacol. Materials Letters, 2020, 276, 128201.	2.6	0