

Jia-Hong Wang

List of Publications by Year in descending order

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95
papers

4,660
citations

94269

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96
all docs

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docs citations

96
times ranked

7464
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	11.1	431
2	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014, 35, 1954-1966.	5.7	276
3	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2600-2604.	7.2	209
4	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	5.2	203
5	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016, 78, 27-39.	5.7	192
6	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017, 29, 7131-7139.	3.2	158
7	Improved Hydrogen Production of Au-Pt-CdS Hetero-Nanostructures by Efficient Plasmon-Induced Multipathway Electron Transfer. <i>Advanced Functional Materials</i> , 2016, 26, 6076-6083.	7.8	138
8	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017, 120, 1-33.	14.8	130
9	Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo. <i>Scientific Reports</i> , 2015, 5, 11398.	1.6	124
10	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8937-8944.	11.1	116
11	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , 2018, 30, e1803641.	11.1	105
12	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , 2020, 7, 2000602.	5.6	95
13	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , 2018, 164, 11-21.	5.7	94
14	Stable black phosphorus/Bi ₂ O ₃ heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , 2018, 171, 12-22.	5.7	94
15	Symmetric and Asymmetric Au-AgCdSe Hybrid Nanorods. <i>Nano Letters</i> , 2012, 12, 5281-5286.	4.5	81
16	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19060-19066.	7.2	79
17	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , 2019, 6, 1801321.	5.6	79
18	Tuning Plasmon Resonance of Gold Nanostars for Enhancements of Nonlinear Optical Response and Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9659-9664.	1.5	78

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19	One-pot synthesis of CdS@reduced graphene oxide 3D composites with enhanced photocatalytic properties. CrystEngComm, 2014, 16, 399-405.	1.3	77
20	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. Biomaterials, 2013, 34, 4274-4283.	5.7	74
21	Enhanced N ₂ -to-NH ₃ conversion efficiency on Cu ₃ P nanoribbon electrocatalyst. Nano Research, 2022, 15, 7134-7138.	5.8	72
22	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. Advanced Functional Materials, 2020, 30, 2002731.	7.8	69
23	Lanthanide-Coordinated Black Phosphorus. Small, 2018, 14, e1801405.	5.2	65
24	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. Npj 2D Materials and Applications, 2017, 1, .	3.9	63
25	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. Biosensors and Bioelectronics, 2014, 54, 128-134.	5.3	62
26	Mapping the elastic properties of two-dimensional MoS ₂ via bimodal atomic force microscopy and finite element simulation. Npj Computational Materials, 2018, 4, .	3.5	61
27	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured $\text{F}_2\text{-NaYF}_4\text{:Er}^{3+}$, Yb^{3+} @SiO ₂ nanoparticles. Nanoscale, 2014, 6, 2052-2055.	2.8	60
28	Unusual and Tunable One-Photon Nonlinearity in Gold-Dye Plexcitonic Fano Systems. Nano Letters, 2015, 15, 2705-2710.	4.5	59
29	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. Angewandte Chemie - International Edition, 2020, 59, 14383-14387.	7.2	58
30	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. Journal of Physical Chemistry Letters, 2020, 11, 1052-1058.	2.1	57
31	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. Small Methods, 2019, 3, 1900083.	4.6	56
32	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. Angewandte Chemie, 2018, 130, 2630-2634.	1.6	55
33	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. Materials Horizons, 2019, 6, 176-181.	6.4	53
34	Molybdenum diselenide @ black phosphorus heterostructures for electrocatalytic hydrogen evolution. Applied Surface Science, 2019, 467-468, 328-334.	3.1	47
35	Tri-phase all-optical switching and broadband nonlinear optical response in Bi ₂ Se ₃ nanosheets. Optics Express, 2017, 25, 18346.	1.7	44
36	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. Nano Research, 2015, 8, 2548-2561.	5.8	43

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37	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. ACS Applied Materials & Interfaces, 2021, 13, 30797-30805.	4.0	41
38	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 37787-37795.	4.0	38
39	<i>In situ</i> growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. Chemical Communications, 2018, 54, 2365-2368.	2.2	36
40	Plasmon-Enhanced Photoelectrochemical Current and Hydrogen Production of (MoS ₂ -TiO ₂)/Au Hybrids. Scientific Reports, 2017, 7, 7178.	1.6	35
41	Synthesis and enhanced fluorescence of Ag doped CdTe semiconductor quantum dots. Nanoscale, 2015, 7, 1970-1976.	2.8	34
42	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Heterostructured Nanorods with Site-Selective Grown Shell. Advanced Optical Materials, 2014, 2, 679-686.	3.6	32
43	Largely enhanced photocatalytic activity of Au/XS ₂ /Au (X = Re, Mo) antenna-reactor hybrids: charge and energy transfer. Nanoscale, 2018, 10, 4130-4137.	2.8	32
44	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. ACS Applied Materials & Interfaces, 2020, 12, 25108-25114.	4.0	32
45	Ceria-Coated Gold Nanorods for Plasmon-Enhanced Near-Infrared Photocatalytic and Photoelectrochemical Performances. Journal of Physical Chemistry C, 2016, 120, 14805-14812.	1.5	30
46	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. Nanoscale, 2013, 5, 1629.	2.8	29
47	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. CrystEngComm, 2014, 16, 6141-6148.	1.3	29
48	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. Plasmonics, 2014, 9, 11-16.	1.8	28
49	Nitrogen Dioxide Gas Sensor Based on Liquid-Phase-Exfoliated Black Phosphorus Nanosheets. ACS Applied Nano Materials, 2020, 3, 6440-6447.	2.4	28
50	Surface and interface control of black phosphorus. Chem, 2022, 8, 632-662.	5.8	28
51	Integrating metallic nanoparticles of Au and Pt with MoS ₂ -CdS hybrids for high-efficient photocatalytic hydrogen generation via plasmon-induced electron and energy transfer. RSC Advances, 2017, 7, 26097-26103.	1.7	27
52	The electrical, thermal, and thermoelectric properties of black phosphorus. APL Materials, 2020, 8, .	2.2	25
53	Synthesis of carboxyl-capped and bright YVO ₄ :Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. Materials Research Bulletin, 2013, 48, 4454-4459.	2.7	24
54	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. Chemical Communications, 2020, 56, 221-224.	2.2	24

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55	Growth of metal-“semiconductor core”-multishell nanorods with optimized field confinement and nonlinear enhancement. <i>Nanoscale</i> , 2016, 8, 11969-11975.	2.8	22
56	Competitive Reaction Pathway for Site-Selective Conjugation of Raman Dyes to Hotspots on Gold Nanorods for Greatly Enhanced SERS Performance. <i>Small</i> , 2014, 10, 4012-4019.	5.2	21
57	A Robust and Low-Power Bismuth Doped Tin Oxide Memristor Derived from Coaxial Conductive Filaments. <i>Small</i> , 2020, 16, e2004619.	5.2	21
58	The nonmonotonous shift of quantum plasmon resonance and plasmon-enhanced photocatalytic activity of gold nanoparticles. <i>Nanoscale</i> , 2017, 9, 3188-3195.	2.8	18
59	Near-infrared optical performances of two Bi ₂ Se ₃ nanosheets. <i>RSC Advances</i> , 2017, 7, 50234-50238.	1.7	16
60	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. <i>Nanotechnology</i> , 2019, 30, 135201.	1.3	16
61	Size-dependent flame retardancy of black phosphorus nanosheets. <i>Nanoscale</i> , 2022, 14, 2599-2604.	2.8	16
62	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50988-50995.	4.0	14
63	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019, 131, 19236-19242.	1.6	13
64	Multiple hybridized resonances of IR-806 chromonic molecules strongly coupled to Au nanorods. <i>Nanoscale</i> , 2015, 7, 8503-8509.	2.8	12
65	Size-dependent plasmon relaxation dynamics and saturable absorption in gold nanorods. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 185107.	1.3	12
66	Synthesis of gold nanorod/neodymium oxide yolk/shell composite with plasmon-enhanced near-infrared luminescence. <i>RSC Advances</i> , 2018, 8, 20056-20060.	1.7	12
67	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , 2020, 16, e2003594.	5.2	11
68	Strategy for improving the activity and selectivity of CO ₂ electroreduction on flexible carbon materials for carbon neutral. <i>Applied Energy</i> , 2021, 298, 117196.	5.1	11
69	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. <i>Advanced Functional Materials</i> , 0, , 2110900.	7.8	11
70	Silica-coated and annealed CdS nanowires with enhanced photoluminescence. <i>Optics Express</i> , 2013, 21, 3253.	1.7	9
71	Tunable Charge Transfer and Dual Plasmon Resonances of Au@WO ₃ x Hybrids and Applications in Photocatalytic Hydrogen Generation. <i>Plasmonics</i> , 2020, 15, 21-29.	1.8	9
72	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , 2020, 358, 136902.	2.6	9

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73	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020, 132, 14489-14493.	1.6	9
74	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. <i>Nanoscale</i> , 2021, 13, 51-58.	2.8	9
75	Facile synthesis of flower-shaped Au/GdVO ₄ :Eu core/shell nanoparticles by using citrate as stabilizer and complexing agent. <i>RSC Advances</i> , 2016, 6, 9612-9618.	1.7	8
76	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021, 60, 293-299.	7.1	8
77	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. <i>CCS Chemistry</i> , 2019, 1, 166-172.	4.6	8
78	Surface Plasmon Resonance and Raman Scattering Activity of the Au/Ag x O/Ag Multilayer Film. <i>Chinese Physics Letters</i> , 2014, 31, 047302.	1.3	6
79	Multifunctional gold coated rare-earth hydroxide fluoride nanotubes for simultaneous wastewater purification and quantitative pollutant determination. <i>Materials Research Bulletin</i> , 2014, 52, 122-127.	2.7	6
80	Upconversion luminescence properties of Mn ²⁺ -doped NaYF ₄ :Yb/Er nanoparticles. <i>Wuhan University Journal of Natural Sciences</i> , 2013, 18, 207-212.	0.2	5
81	Plasmonic near-field coupling induced absorption enhancement and photoluminescence of silver nanorod arrays. <i>Journal of Applied Physics</i> , 2014, 115, 224302.	1.1	5
82	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. <i>Science China Materials</i> , 2020, 63, 2079-2085.	3.5	5
83	Tunable Plasmon Resonance and Fluorescence of Au/ZnS/CdS Core/Shell Nanorods. <i>Plasmonics</i> , 2015, 10, 919-923.	1.8	4
84	Photothermal Therapy: Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy (<i>Small</i> 30/2016). <i>Small</i> , 2016, 12, 4158-4158.	5.2	4
85	Low-cost recycling production of <i>Aspergillus niger</i> pectinase to increase the yield and quality of Muzao jujube juice by <i>Aspergillus niger</i> . <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 104-116.	1.9	4
86	Growth of silver-coated gold nanoshells with enhanced linear and nonlinear optical responses. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	3
87	Black Phosphorus: Lanthanide-Coordinated Black Phosphorus (<i>Small</i> 29/2018). <i>Small</i> , 2018, 14, 1870134.	5.2	3
88	Visible-Light Photocatalysis: A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus (<i>Adv. Sci.</i>) <i>Tj ETQq0 0 0 rgBT /Overlap 5:6 2</i>	5.6	2
89	Resonant Multi-phonon Raman scattering of black phosphorus. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 167803.	0.2	2
90	Synthesis and Properties of Shape-Stabilized Phase Change Materials Based on Poly(triallyl) <i>Tj ETQq0 0 0 rgBT /Overlap 10 Tf 50 62 Td</i>	1.6	2

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91	Plasmon-Enhanced Fluorescence of Rare Earth Nanocrystals. International Journal of Behavioral and Consultation Therapy, 2017, , 15-37.	0.4	1
92	Metal Doped Phosphorene: Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution (Small Methods 7/2019). Small Methods, 2019, 3, 1970021.	4.6	1
93	Photoelectrochemical Ammonia Synthesis: Photoelectrochemical Synthesis of Ammonia with Black Phosphorus (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070156.	7.8	1
94	Finite phosphorene derived partial reduction of metal organic framework nanofoams for enhanced lithium storage capability. Journal of Power Sources, 2022, 525, 231025.	4.0	1
95	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors (Adv. Funct. Mater. 14/2022). Advanced Functional Materials, 2022, 32, .	7.8	0