Jia-Hong Wang

List of Publications by Year
in descending order

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95 papers	4,660 citations	94269 37 h-index	98622 67 g-index
96 all docs	96 docs citations	96 times ranked	7464 citing authors

#	Article	IF	Citations
1	Size-dependent flame retardancy of black phosphorus nanosheets. Nanoscale, 2022, 14, 2599-2604.	2.8	16
2	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
3	Surface and interface control of black phosphorus. CheM, 2022, 8, 632-662.	5.8	28
4	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors (Adv. Funct. Mater. 14/2022). Advanced Functional Materials, 2022, 32, .	7.8	0
5	Synthesis and Properties of Shape-Stabilized Phase Change Materials Based on Poly(triallyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	2
6	Enhanced N2-to-NH3 conversion efficiency on Cu3P nanoribbon electrocatalyst. Nano Research, 2022, 15, 7134-7138.	5.8	72
7	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. Nanoscale, 2021, 13, 51-58.	2.8	9
8	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. ACS Applied Materials & Interfaces, 2021, 13, 30797-30805.	4.0	41
9	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. Journal of Energy Chemistry, 2021, 60, 293-299.	7.1	8
10	Strategy for improving the activity and selectivity of CO2 electroreduction on flexible carbon materials for carbon neutral. Applied Energy, 2021, 298, 117196.	5.1	11
11	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 50988-50995.	4.0	14
12	Tunable Charge Transfer and Dual Plasmon Resonances of Au@WO3â˜x Hybrids and Applications in Photocatalytic Hydrogen Generation. Plasmonics, 2020, 15, 21-29.	1.8	9
13	Rapid and scalable production of high-quality phosphorene by plasmaâ€“liquid technology. Chemical Communications, 2020, 56, 221-224.	2.2	24
14	Lowâ€cost recycling production ofÂpectinase to increase the yield and quality of Muzao jujube juice by Aspergillus niger. Biofuels, Bioproducts and Biorefining, 2020, 14, 104-116.	1.9	4
15	A Robust and Lowâ€Power Bismuth Doped Tin Oxide Memristor Derived from Coaxial Conductive Filaments. Small, 2020, 16, e2004619.	5.2	21
16	From Octahedron Crystals to 2D Silicon Nanosheets: Facetâ€Selective Cleavage and Biophotonic Applications. Small, 2020, 16, e2003594.	5.2	11
17	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. Electrochimica Acta, 2020, 358, 136902.	2.6	9
18	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. Science China Materials, 2020, 63, 2079-2085.	3.5	5

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19	Phaseâ€Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. Advanced Science, 2020, 7, 2000602.	5.6	95
20	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. ACS Applied Materials & Interfaces, 2020, 12, 25108-25114.	4.0	32
21	Crystalline Red Phosphorus Nanoribbons: Largeâ€Scale Synthesis and Electrochemical Nitrogen Fixation. Angewandte Chemie, 2020, 132, 14489-14493.	1.6	9
22	Nitrogen Dioxide Gas Sensor Based on Liquid-Phase-Exfoliated Black Phosphorus Nanosheets. ACS Applied Nano Materials, 2020, 3, 6440-6447.	2.4	28
23	Photoelectrochemical Ammonia Synthesis: Photoelectrochemical Synthesis of Ammonia with Black Phosphorus (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070156.	7.8	1
24	Crystalline Red Phosphorus Nanoribbons: Largeâ€Scale Synthesis and Electrochemical Nitrogen Fixation. Angewandte Chemie - International Edition, 2020, 59, 14383-14387.	7.2	58
25	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. Journal of Physical Chemistry Letters, 2020, 11, 1052-1058.	2.1	57
26	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. Advanced Functional Materials, 2020, 30, 2002731.	7.8	69
27	The electrical, thermal, and thermoelectric properties of black phosphorus. APL Materials, 2020, 8, .	2.2	25
28	Resonant Multi-phonon Raman scattering of black phosphorus. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 167803.	0.2	2
29	Metal Doped Phosphorene: Direct Synthesis of Metalâ€Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution (Small Methods 7/2019). Small Methods, 2019, 3, 1970021.	4.6	1
30	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 19060-19066.	7.2	79
31	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. Angewandte Chemie, 2019, 131, 19236-19242.	1.6	13
32	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 37787-37795.	4.0	38
33	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. Materials Horizons, 2019, 6, 176-181.	6.4	53
34	Direct Synthesis of Metalâ€Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. Small Methods, 2019, 3, 1900083.	4.6	56
35	A Lowâ€Cost Metalâ€Free Photocatalyst Based on Black Phosphorus. Advanced Science, 2019, 6, 1801321.	5.6	79
36	Visibleâ€Light Photocatalysis: A Lowâ€Cost Metalâ€Free Photocatalyst Based on Black Phosphorus (Adv. Sci.) Tj ETQq0 0 0 rgBT /Overlo	5.6	2

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37	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. Nanotechnology, 2019, 30, 135201.	1.3	16
38	Molybdenum diselenide â€“ black phosphorus heterostructures for electrocatalytic hydrogen evolution. Applied Surface Science, 2019, 467-468, 328-334.	3.1	47
39	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. CCS Chemistry, 2019, 1, 166-172.	4.6	8
40	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. Biomaterials, 2018, 164, 11-21.	5.7	94
41	Stable black phosphorus/Bi2O3 heterostructures for synergistic cancer radiotherapy. Biomaterials, 2018, 171, 12-22.	5.7	94
42	Largely enhanced photocatalytic activity of Au/XS₂/Au (X = Re, Mo) antennaâ€“reactor hybrids: charge and energy transfer. Nanoscale, 2018, 10, 4130-4137.	2.8	32
43	In situ growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. Chemical Communications, 2018, 54, 2365-2368.	2.2	36
44	Inâ€Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. Angewandte Chemie, 2018, 130, 2630-2634.	1.6	55
45	Inâ€Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 2600-2604.	7.2	209
46	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solarâ€Driven Chemical Reactions. Advanced Materials, 2018, 30, e1803641.	11.1	105
47	Mapping the elastic properties of two-dimensional MoS2 via bimodal atomic force microscopy and finite element simulation. Npj Computational Materials, 2018, 4, .	3.5	61
48	Lanthanideâ€Coordinated Black Phosphorus. Small, 2018, 14, e1801405.	5.2	65
49	Black Phosphorus: Lanthanide-Coordinated Black Phosphorus (Small 29/2018). Small, 2018, 14, 1870134.	5.2	3
50	Synthesis of gold nanorod/neodymium oxide yolk/shell composite with plasmon-enhanced near-infrared luminescence. RSC Advances, 2018, 8, 20056-20060.	1.7	12
51	The nonmonotonous shift of quantum plasmon resonance and plasmon-enhanced photocatalytic activity of gold nanoparticles. Nanoscale, 2017, 9, 3188-3195.	2.8	18
52	Plasmon-Enhanced Fluorescence of Rare Earth Nanocrystals. International Journal of Behavioral and Consultation Therapy, 2017, , 15-37.	0.4	1
53	Integrating metallic nanoparticles of Au and Pt with MoS₂â€“CdS hybrids for high-efficient photocatalytic hydrogen generation via plasmon-induced electron and energy transfer. RSC Advances, 2017, 7, 26097-26103.	1.7	27
54	Near-infrared optical performances of two Bi₂Se₃nanosheets. RSC Advances, 2017, 7, 50234-50238.	1.7	16

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55	Metalâ€Ionâ€Modified Black Phosphorus with Enhanced Stability and Transistor Performance. Advanced Materials, 2017, 29, 1703811.	11.1	431
56	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. Materials Science and Engineering Reports, 2017, 120, 1-33.	14.8	130
57	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. Chemistry of Materials, 2017, 29, 7131-7139.	3.2	158
58	Plasmon-Enhanced Photoelectrochemical Current and Hydrogen Production of (MoS2-TiO2)/Au Hybrids. Scientific Reports, 2017, 7, 7178.	1.6	35
59	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. Npj 2D Materials and Applications, 2017, 1, .	3.9	63
60	Tri-phase all-optical switching and broadband nonlinear optical response in Bi_2Se_3 nanosheets. Optics Express, 2017, 25, 18346.	1.7	44
61	Improved Hydrogen Production of Auâ€“Ptâ€“CdS Heteroâ€Nanostructures by Efficient Plasmonâ€Induced Multipathway Electron Transfer. Advanced Functional Materials, 2016, 26, 6076-6083.	7.8	138
62	Metabolizable Ultrathin Bi₂Se₃ Nanosheets in Imagingâ€Guided Photothermal Therapy. Small, 2016, 12, 4136-4145.	5.2	203
63	Growth of metalâ€“semiconductor coreâ€“multishell nanorods with optimized field confinement and nonlinear enhancement. Nanoscale, 2016, 8, 11969-11975.	2.8	22
64	Size-dependent plasmon relaxation dynamics and saturable absorption in gold nanorods. Journal Physics D: Applied Physics, 2016, 49, 185107.	1.3	12
65	Photothermal Therapy: Metabolizable Ultrathin Bi2Se3Nanosheets in Imaging-Guided Photothermal Therapy (Small 30/2016). Small, 2016, 12, 4158-4158.	5.2	4
66	Black Phosphorus Based Photocathodes in Wideband Bifacial Dyeâ€Sensitized Solar Cells. Advanced Materials, 2016, 28, 8937-8944.	11.1	116
67	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
68	Facile synthesis of flower-shaped Au/GdVO4:Eu core/shell nanoparticles by using citrate as stabilizer and complexing agent. RSC Advances, 2016, 6, 9612-9618.	1.7	8
69	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. Biomaterials, 2016, 78, 27-39.	5.7	192
70	Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo. Scientific Reports, 2015, 5, 11398.	1.6	124
71	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. Nano Research, 2015, 8, 2548-2561.	5.8	43
72	Tunable Plasmon Resonance and Fluorescence of Au/ZnS/CdS Core/Shell Nanorods. Plasmonics, 2015, 10, 919-923.	1.8	4

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73	Multiple hybridized resonances of IR-806 chromonic molecules strongly coupled to Au nanorods. Nanoscale, 2015, 7, 8503-8509.	2.8	12
74	Growth of silver-coated gold nanoshells with enhanced linear and nonlinear optical responses. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	3
75	Unusual and Tunable One-Photon Nonlinearity in Gold-Dye Plexcitonic Fano Systems. Nano Letters, 2015, 15, 2705-2710.	4.5	59
76	Synthesis and enhanced fluorescence of Ag doped CdTe semiconductor quantum dots. Nanoscale, 2015, 7, 1970-1976.	2.8	34
77	Plasmonic near-field coupling induced absorption enhancement and photoluminescence of silver nanorod arrays. Journal of Applied Physics, 2014, 115, 224302.	1.1	5
78	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Heteroâ€Nanorods with Siteâ€Selectively Grown Shell. Advanced Optical Materials, 2014, 2, 679-686.	3.6	32
79	Surface Plasmon Resonance and Raman Scattering Activity of the Au/Ag x O/Ag Multilayer Film. Chinese Physics Letters, 2014, 31, 047302.	1.3	6
80	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. Plasmonics, 2014, 9, 11-16.	1.8	28
81	Rose-bengal-conjugated gold nanorods for inÂvivo photodynamic and photothermal oral cancer therapies. Biomaterials, 2014, 35, 1954-1966.	5.7	276
82	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. Biosensors and Bioelectronics, 2014, 54, 128-134.	5.3	62
83	One-pot synthesis of CdSâ€“reduced graphene oxide 3D composites with enhanced photocatalytic properties. CrystEngComm, 2014, 16, 399-405.	1.3	77
84	Upconversion induced enhancement of dye sensitized solar cells based on coreâ€“shell structured Î²-NaYF₄:Er³⁺, Yb³⁺@SiO₂nanoparticles. Nanoscale, 2014, 6, 2052-2055.	2.8	60
85	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. CrystEngComm, 2014, 16, 6141-6148.	1.3	29
86	Tuning Plasmon Resonance of Gold Nanostars for Enhancements of Nonlinear Optical Response and Raman Scattering. Journal of Physical Chemistry C, 2014, 118, 9659-9664.	1.5	78
87	Multifunctional gold coated rare-earth hydroxide fluoride nanotubes for simultaneous wastewater purification and quantitative pollutant determination. Materials Research Bulletin, 2014, 52, 122-127.	2.7	6
88	Competitive Reaction Pathway for Siteâ€Selective Conjugation of Raman Dyes to Hotspots on Gold Nanorods for Greatly Enhanced SERS Performance. Small, 2014, 10, 4012-4019.	5.2	21
89	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. Biomaterials, 2013, 34, 4274-4283.	5.7	74
90	Upconversion luminescence properties of Mn2+-doped NaYF4:Yb/Er nanoparticles. Wuhan University Journal of Natural Sciences, 2013, 18, 207-212.	0.2	5

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91	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. Nanoscale, 2013, 5, 1629.	2.8	29
92	Synthesis of carboxyl-capped and bright YVO4:Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. Materials Research Bulletin, 2013, 48, 4454-4459.	2.7	24
93	Silica-coated and annealed CdS nanowires with enhanced photoluminescence. Optics Express, 2013, 21, 3253.	1.7	9
94	Symmetric and Asymmetric Auâ€“AgCdSe Hybrid Nanorods. Nano Letters, 2012, 12, 5281-5286.	4.5	81
95	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. Advanced Functional Materials, 0, , 2110900.	7.8	11