

# Jia-Hong Wang

## List of Publications by Citations

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94  
papers

3,431  
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34  
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g-index

96  
ext. papers

4,054  
ext. citations

9  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
94	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703811	24	353
93	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , <b>2014</b> , 35, 1954-66	15.6	226
92	Metabolizable Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , <b>2016</b> , 12, 4136-45	11	168
91	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , <b>2016</b> , 78, 27-39	15.6	167
90	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2600-2604	16.4	159
89	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7131-7139	9.6	125
88	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 120, 1-33	30.9	102
87	Improved Hydrogen Production of AuPtCo Hetero-Nanostructures by Efficient Plasmon-Induced Multipathway Electron Transfer. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6076-6083	15.6	102
86	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8937-8944	24	100
85	Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo. <i>Scientific Reports</i> , <b>2015</b> , 5, 11398	4.9	99
84	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803641	24	77
83	Symmetric and asymmetric Au-AgCdSe hybrid nanorods. <i>Nano Letters</i> , <b>2012</b> , 12, 5281-6	11.5	75
82	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , <b>2018</b> , 164, 11-21	15.6	73
81	Stable black phosphorus/BiO heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , <b>2018</b> , 171, 12-22	15.6	70
80	One-pot synthesis of CdSe-reduced graphene oxide 3D composites with enhanced photocatalytic properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 399-405	3.3	67
79	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , <b>2013</b> , 34, 4274-83	15.6	64
78	Tuning Plasmon Resonance of Gold Nanostars for Enhancements of Nonlinear Optical Response and Raman Scattering. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9659-9664	3.8	58

77	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured [NaYF <sub>4</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> ]/SiO <sub>2</sub> nanoparticles. <i>Nanoscale</i> , <b>2014</b> , 6, 2052-5	7.7	56
76	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , <b>2019</b> , 6, 1801321	13.6	55
75	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 128-34	11.8	52
74	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 19060-19066	16.4	51
73	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , <b>2018</b> , 14, e1801405	11	49
72	Unusual and tunable one-photon nonlinearity in gold-dye plexcitonic Fano systems. <i>Nano Letters</i> , <b>2015</b> , 15, 2705-10	11.5	46
71	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	44
70	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2630-2634	3.6	43
69	Mapping the elastic properties of two-dimensional MoS <sub>2</sub> via bimodal atomic force microscopy and finite element simulation. <i>Npj Computational Materials</i> , <b>2018</b> , 4,	10.9	41
68	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. <i>Nano Research</i> , <b>2015</b> , 8, 2548-2561	10	40
67	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , <b>2019</b> , 6, 176-181	14.4	39
66	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002731	15.6	38
65	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , <b>2020</b> , 7, 2000602	13.6	38
64	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1052-1058	6.4	36
63	Tri-phase all-optical switching and broadband nonlinear optical response in BiSe nanosheets. <i>Optics Express</i> , <b>2017</b> , 25, 18346-18354	3.3	36
62	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14383-14387	16.4	35
61	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , <b>2019</b> , 3, 1900083	12.8	34
60	Molybdenum diselenide/black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 328-334	6.7	34

59	In situ growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. <i>Chemical Communications</i> , <b>2018</b> , 54, 2365-2368	5.8	30
58	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Hetero-Nanorods with Site-Selectively Grown Shell. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 679-686	8.1	30
57	Synthesis and enhanced fluorescence of Ag doped CdTe semiconductor quantum dots. <i>Nanoscale</i> , <b>2015</b> , 7, 1970-6	7.7	28
56	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. <i>Nanoscale</i> , <b>2013</b> , 5, 1629-37	7.7	28
55	Plasmon-Enhanced Photoelectrochemical Current and Hydrogen Production of (MoS <sub>2</sub> -TiO <sub>2</sub> )/Au Hybrids. <i>Scientific Reports</i> , <b>2017</b> , 7, 7178	4.9	27
54	Largely enhanced photocatalytic activity of Au/XS/Au (X = Re, Mo) antenna-reactor hybrids: charge and energy transfer. <i>Nanoscale</i> , <b>2018</b> , 10, 4130-4137	7.7	25
53	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37787-37795	9.5	24
52	Ceria-Coated Gold Nanorods for Plasmon-Enhanced Near-Infrared Photocatalytic and Photoelectrochemical Performances. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14805-14812	3.8	24
51	Synthesis of carboxyl-capped and bright YVO <sub>4</sub> :Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4454-4459	5.1	23
50	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. <i>Plasmonics</i> , <b>2014</b> , 9, 11-16	2.4	23
49	Integrating metallic nanoparticles of Au and Pt with MoS <sub>2</sub> /CdS hybrids for high-efficient photocatalytic hydrogen generation via plasmon-induced electron and energy transfer. <i>RSC Advances</i> , <b>2017</b> , 7, 26097-26103	3.7	22
48	Growth of metal-semiconductor core-multishell nanorods with optimized field confinement and nonlinear enhancement. <i>Nanoscale</i> , <b>2016</b> , 8, 11969-75	7.7	22
47	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , <b>2014</b> , 16, 6141-6148	3.3	19
46	The nonmonotonous shift of quantum plasmon resonance and plasmon-enhanced photocatalytic activity of gold nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 3188-3195	7.7	16
45	Competitive reaction pathway for site-selective conjugation of Raman dyes to hotspots on gold nanorods for greatly enhanced SERS performance. <i>Small</i> , <b>2014</b> , 10, 4012-9	11	16
44	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25108-25114	9.5	15
43	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. <i>Chemical Communications</i> , <b>2019</b> , 56, 221-224	5.8	15
42	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30797-30805	9.5	14

41	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. <i>Nanotechnology</i> , <b>2019</b> , 30, 135201	3.4	13
40	Nitrogen Dioxide Gas Sensor Based on Liquid-Phase-Exfoliated Black Phosphorus Nanosheets. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6440-6447	5.6	12
39	Multiple hybridized resonances of IR-806 chromonic molecules strongly coupled to Au nanorods. <i>Nanoscale</i> , <b>2015</b> , 7, 8503-9	7.7	11
38	A Robust and Low-Power Bismuth Doped Tin Oxide Memristor Derived from Coaxial Conductive Filaments. <i>Small</i> , <b>2020</b> , 16, e2004619	11	10
37	Size-dependent plasmon relaxation dynamics and saturable absorption in gold nanorods. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 185107	3	10
36	Silica-coated and annealed CdS nanowires with enhanced photoluminescence. <i>Optics Express</i> , <b>2013</b> , 21, 3253-8	3.3	9
35	Near-infrared optical performances of two Bi <sub>2</sub> Se <sub>3</sub> nanosheets. <i>RSC Advances</i> , <b>2017</b> , 7, 50234-50238	3.7	8
34	Facile synthesis of flower-shaped Au/GdVO <sub>4</sub> :Eu core/shell nanoparticles by using citrate as stabilizer and complexing agent. <i>RSC Advances</i> , <b>2016</b> , 6, 9612-9618	3.7	8
33	Synthesis of gold nanorod/neodymium oxide yolk/shell composite with plasmon-enhanced near-infrared luminescence.. <i>RSC Advances</i> , <b>2018</b> , 8, 20056-20060	3.7	8
32	Multifunctional gold coated rare-earth hydroxide fluoride nanotubes for simultaneous wastewater purification and quantitative pollutant determination. <i>Materials Research Bulletin</i> , <b>2014</b> , 52, 122-127	5.1	6
31	Upconversion luminescence properties of Mn <sup>2+</sup> -doped NaYF <sub>4</sub> :Yb/Er nanoparticles. <i>Wuhan University Journal of Natural Sciences</i> , <b>2013</b> , 18, 207-212	0.4	5
30	Plasmonic near-field coupling induced absorption enhancement and photoluminescence of silver nanorod arrays. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 224302	2.5	5
29	Surface Plasmon Resonance and Raman Scattering Activity of the Au/Ag x O/Ag Multilayer Film. <i>Chinese Physics Letters</i> , <b>2014</b> , 31, 047302	1.8	5
28	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. <i>CCS Chemistry</i> , <b>2019</b> , 1, 166-172	7.2	5
27	The electrical, thermal, and thermoelectric properties of black phosphorus. <i>APL Materials</i> , <b>2020</b> , 8, 1209037	9.7	5
26	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , <b>2020</b> , 16, e2003594	11	5
25	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. <i>Nanoscale</i> , <b>2021</b> , 13, 51-58	7.7	5
24	Tunable Plasmon Resonance and Fluorescence of Au/ZnS/CdS Core/Shell Nanorods. <i>Plasmonics</i> , <b>2015</b> , 10, 919-923	2.4	4

23	Tunable Charge Transfer and Dual Plasmon Resonances of Au@WO <sub>3</sub> Hybrids and Applications in Photocatalytic Hydrogen Generation. <i>Plasmonics</i> , <b>2020</b> , 15, 21-29	2.4	4
22	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 293-299	12	4
21	Growth of silver-coated gold nanoshells with enhanced linear and nonlinear optical responses. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	3
20	Low-cost recycling production of pectinase to increase the yield and quality of Muzao jujube juice by <i>Aspergillus niger</i> . <i>Biofuels, Bioproducts and Biorefining</i> , <b>2020</b> , 14, 104-116	5.3	3
19	Black Phosphorus: Lanthanide-Coordinated Black Phosphorus (Small 29/2018). <i>Small</i> , <b>2018</b> , 14, 187013411		2
18	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 19236-19242	3.6	2
17	Resonant Multi-phonon Raman scattering of black phosphorus. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2020</b> , 69, 167803	0.6	2
16	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. <i>Advanced Functional Materials</i> , 2110900	15.6	2
15	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. <i>Science China Materials</i> , <b>2020</b> , 63, 2079-2085	7.1	2
14	Photothermal Therapy: Metabolizable Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanosheets in Imaging-Guided Photothermal Therapy (Small 30/2016). <i>Small</i> , <b>2016</b> , 12, 4158-4158	11	2
13	Strategy for improving the activity and selectivity of CO <sub>2</sub> electroreduction on flexible carbon materials for carbon neutral. <i>Applied Energy</i> , <b>2021</b> , 298, 117196	10.7	2
12	Surface and interface control of black phosphorus. <i>Chem</i> , <b>2022</b> , 8, 632-662	16.2	2
11	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14489-14493	3.6	1
10	Photoelectrochemical Ammonia Synthesis: Photoelectrochemical Synthesis of Ammonia with Black Phosphorus (Adv. Funct. Mater. 24/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070156	15.6	1
9	Metal Doped Phosphorene: Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution (Small Methods 7/2019). <i>Small Methods</i> , <b>2019</b> , 3, 1970021	12.8	1
8	Size-dependent flame retardancy of black phosphorus nanosheets.. <i>Nanoscale</i> , <b>2022</b> , 14, 2599-2604	7.7	1
7	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50988-50995	9.5	1
6	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , <b>2020</b> , 358, 136902	6.7	1

5	Visible-Light Photocatalysis: A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus (Adv. Sci. 1/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970007	13.6	1
4	Plasmon-Enhanced Fluorescence of Rare Earth Nanocrystals. <i>International Journal of Behavioral and Consultation Therapy</i> , <b>2017</b> , 15-37	0.6	
3	Finite phosphorene derived partial reduction of metal organic framework nanofoams for enhanced lithium storage capability. <i>Journal of Power Sources</i> , <b>2022</b> , 525, 231025	8.9	
2	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors (Adv. Funct. Mater. 14/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270087	15.6	
1	Synthesis and Properties of Shape-Stabilized Phase Change Materials Based on Poly(triallyl isocyanurate-silicone)/-Octadecane Composites.. <i>ACS Omega</i> , <b>2022</b> , 7, 14952-14960	3.9	