

Jia-Hong Wang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5623017/jia-hong-wang-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

3,431
citations

34
h-index

57
g-index

96
ext. papers

4,054
ext. citations

9
avg, IF

5.34
L-index

#	Paper	IF	Citations
94	Size-dependent flame retardancy of black phosphorus nanosheets.. <i>Nanoscale</i> , 2022 , 14, 2599-2604	7.7	1
93	Finite phosphorene derived partial reduction of metal organic framework nanofoams for enhanced lithium storage capability. <i>Journal of Power Sources</i> , 2022 , 525, 231025	8.9	
92	Surface and interface control of black phosphorus. <i>CheM</i> , 2022 , 8, 632-662	16.2	2
91	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors (Adv. Funct. Mater. 14/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270087	15.6	
90	Synthesis and Properties of Shape-Stabilized Phase Change Materials Based on Poly(triallyl isocyanurate-silicone)/-Octadecane Composites.. <i>ACS Omega</i> , 2022 , 7, 14952-14960	3.9	
89	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	9.5	1
88	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30797-30805	9.5	14
87	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. <i>Nanoscale</i> , 2021 , 13, 51-58	7.7	5
86	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021 , 60, 293-299	12	4
85	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	10.7	2
84	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25108-25114	9.5	15
83	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020 , 132, 14489-14493	3.6	1
82	Nitrogen Dioxide Gas Sensor Based on Liquid-Phase-Exfoliated Black Phosphorus Nanosheets. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6440-6447	5.6	12
81	Photoelectrochemical Ammonia Synthesis: Photoelectrochemical Synthesis of Ammonia with Black Phosphorus (Adv. Funct. Mater. 24/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070156	15.6	1
80	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14383-14387	16.4	35
79	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1052-1058	6.4	36
78	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , 2020 , 30, 2002731	15.6	38

77	Resonant Multi-phonon Raman scattering of black phosphorus. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 167803	0.6	2
76	The electrical, thermal, and thermoelectric properties of black phosphorus. <i>APL Materials</i> , 2020 , 8, 1209037	3.7	5
75	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> , 2020 , 14, 104-116	5.3	3
74	A Robust and Low-Power Bismuth Doped Tin Oxide Memristor Derived from Coaxial Conductive Filaments. <i>Small</i> , 2020 , 16, e2004619	11	10
73	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , 2020 , 16, e2003594	11	5
72	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , 2020 , 358, 136902	6.7	1
71	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. <i>Science China Materials</i> , 2020 , 63, 2079-2085	7.1	2
70	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , 2020 , 7, 2000602	13.6	38
69	Tunable Charge Transfer and Dual Plasmon Resonances of Au@WO ₃ Hybrids and Applications in Photocatalytic Hydrogen Generation. <i>Plasmonics</i> , 2020 , 15, 21-29	2.4	4
68	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37787-37795	9.5	24
67	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , 2019 , 6, 176-181	14.4	39
66	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , 2019 , 3, 1900083	12.8	34
65	Metal Doped Phosphorene: Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution (Small Methods 7/2019). <i>Small Methods</i> , 2019 , 3, 1970021	12.8	1
64	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 19060-19066	16.4	51
63	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 19236-19242	3.6	2
62	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. <i>CCS Chemistry</i> , 2019 , 1, 166-172	7.2	5
61	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. <i>Chemical Communications</i> , 2019 , 56, 221-224	5.8	15
60	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , 2019 , 6, 1801321	13.6	55

59	Visible-Light Photocatalysis: A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus (Adv. Sci. 1/2019). <i>Advanced Science</i> , 2019 , 6, 1970007	13.6	1
58	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. <i>Nanotechnology</i> , 2019 , 30, 135201	3.4	13
57	Molybdenum diselenide/black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019 , 467-468, 328-334	6.7	34
56	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , 2018 , 164, 11-21	15.6	73
55	Stable black phosphorus/BiO heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , 2018 , 171, 12-22	15.6	70
54	Largely enhanced photocatalytic activity of Au/XS/Au (X = Re, Mo) antenna-reactor hybrids: charge and energy transfer. <i>Nanoscale</i> , 2018 , 10, 4130-4137	7.7	25
53	In situ growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. <i>Chemical Communications</i> , 2018 , 54, 2365-2368	5.8	30
52	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie</i> , 2018 , 130, 2630-2634	3.6	43
51	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2600-2604	16.4	159
50	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , 2018 , 14, e1801405	11	49
49	Black Phosphorus: Lanthanide-Coordinated Black Phosphorus (Small 29/2018). <i>Small</i> , 2018 , 14, 1870134	11	2
48	Synthesis of gold nanorod/neodymium oxide yolk/shell composite with plasmon-enhanced near-infrared luminescence.. <i>RSC Advances</i> , 2018 , 8, 20056-20060	3.7	8
47	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , 2018 , 30, e1803641	24	77
46	Mapping the elastic properties of two-dimensional MoS ₂ via bimodal atomic force microscopy and finite element simulation. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	41
45	The nonmonotonous shift of quantum plasmon resonance and plasmon-enhanced photocatalytic activity of gold nanoparticles. <i>Nanoscale</i> , 2017 , 9, 3188-3195	7.7	16
44	Plasmon-Enhanced Fluorescence of Rare Earth Nanocrystals. <i>International Journal of Behavioral and Consultation Therapy</i> , 2017 , 15-37	0.6	
43	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. <i>RSC Advances</i> , 2017 , 7, 26097-26103	3.7	22
42	Near-infrared optical performances of two Bi ₂ Se ₃ nanosheets. <i>RSC Advances</i> , 2017 , 7, 50234-50238	3.7	8

41	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017 , 29, 1703811	24	353
40	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017 , 120, 1-33	30.9	102
39	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017 , 29, 7131-7139	9.6	125
38	Plasmon-Enhanced Photoelectrochemical Current and Hydrogen Production of (MoS-TiO)/Au Hybrids. <i>Scientific Reports</i> , 2017 , 7, 7178	4.9	27
37	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	44
36	Tri-phase all-optical switching and broadband nonlinear optical response in BiSe nanosheets. <i>Optics Express</i> , 2017 , 25, 18346-18354	3.3	36
35	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8937-8944	24	100
34	Ceria-Coated Gold Nanorods for Plasmon-Enhanced Near-Infrared Photocatalytic and Photoelectrochemical Performances. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14805-14812	3.8	24
33	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	3.7	8
32	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016 , 78, 27-39	15.6	167
31	Improved Hydrogen Production of AuPtPd Hetero-Nanostructures by Efficient Plasmon-Induced Multipathway Electron Transfer. <i>Advanced Functional Materials</i> , 2016 , 26, 6076-6083	15.6	102
30	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016 , 12, 4136-45	11	168
29	Growth of metal-semiconductor core-multishell nanorods with optimized field confinement and nonlinear enhancement. <i>Nanoscale</i> , 2016 , 8, 11969-75	7.7	22
28	Size-dependent plasmon relaxation dynamics and saturable absorption in gold nanorods. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 185107	3	10
27	Photothermal Therapy: Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy (Small 30/2016). <i>Small</i> , 2016 , 12, 4158-4158	11	2
26	Multiple hybridized resonances of IR-806 chromonic molecules strongly coupled to Au nanorods. <i>Nanoscale</i> , 2015 , 7, 8503-9	7.7	11
25	Growth of silver-coated gold nanoshells with enhanced linear and nonlinear optical responses. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	3
24	Unusual and tunable one-photon nonlinearity in gold-dye plexcitonic Fano systems. <i>Nano Letters</i> , 2015 , 15, 2705-10	11.5	46

23	Synthesis and enhanced fluorescence of Ag doped CdTe semiconductor quantum dots. <i>Nanoscale</i> , 2015 , 7, 1970-6	7.7	28
22	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	4.9	99
21	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. <i>Nano Research</i> , 2015 , 8, 2548-2561	10	40
20	Tunable Plasmon Resonance and Fluorescence of Au/ZnS/CdS Core/Shell Nanorods. <i>Plasmonics</i> , 2015 , 10, 919-923	2.4	4
19	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014 , 35, 1954-66	15.6	226
18	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 128-34	11.8	52
17	One-pot synthesis of CdS reduced graphene oxide 3D composites with enhanced photocatalytic properties. <i>CrystEngComm</i> , 2014 , 16, 399-405	3.3	67
16	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured [NaYF ₄ :Er ³⁺ , Yb ³⁺]/SiO ₂ nanoparticles. <i>Nanoscale</i> , 2014 , 6, 2052-5	7.7	56
15	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , 2014 , 16, 6141-6148	3.3	19
14	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	3.8	58
13	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	5.1	6
12	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, 4012-9	11	16
11	Plasmonic near-field coupling induced absorption enhancement and photoluminescence of silver nanorod arrays. <i>Journal of Applied Physics</i> , 2014 , 115, 224302	2.5	5
10	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Hetero-Nanorods with Site-Selectively Grown Shell. <i>Advanced Optical Materials</i> , 2014 , 2, 679-686	8.1	30
9	Surface Plasmon Resonance and Raman Scattering Activity of the Au/Ag x O/Ag Multilayer Film. <i>Chinese Physics Letters</i> , 2014 , 31, 047302	1.8	5
8	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. <i>Plasmonics</i> , 2014 , 9, 11-16	2.4	23
7	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , 2013 , 34, 4274-83	15.6	64
6	Upconversion luminescence properties of Mn ²⁺ -doped NaYF ₄ :Yb/Er nanoparticles. <i>Wuhan University Journal of Natural Sciences</i> , 2013 , 18, 207-212	0.4	5

5	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. <i>Nanoscale</i> , 2013 , 5, 1629-37	7.7	28
4	Synthesis of carboxyl-capped and bright YVO ₄ :Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. <i>Materials Research Bulletin</i> , 2013 , 48, 4454-4459	5.1	23
3	Silica-coated and annealed CdS nanowires with enhanced photoluminescence. <i>Optics Express</i> , 2013 , 21, 3253-8	3.3	9
2	Symmetric and asymmetric Au-AgCdSe hybrid nanorods. <i>Nano Letters</i> , 2012 , 12, 5281-6	11.5	75
1	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. <i>Advanced Functional Materials</i> , 2110900	15.6	2