

Jiahai Wang

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,992
citations

270111

25
h-index

190340

53
g-index

55
all docs

55
docs citations

55
times ranked

7364
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality all-fluorescent white organic light-emitting diodes obtained by balancing carriers with hole limit layer. <i>Optical Materials</i> , 2022, 123, 111917.	1.7	2
2	Detection of small-sized DNA fragments in a glassy nanopore by utilization of CRISPR-Cas12a as a converter system. <i>Analyst</i> , The, 2022, 147, 905-914.	1.7	14
3	A modifiable double donor based on bis(<i>N</i> -ethyl- <i>N</i> -hydroxyethyl)aniline for organic optical nonlinear chromophores. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1079-1090.	3.2	11
4	Synthesis of Bis(<i>N,N</i> -diethyl)aniline-Based, Nonlinear, Optical Chromophores with Increased Electro-Optic Activity by Optimizing the Thiolated Isophorone Bridge. <i>Symmetry</i> , 2022, 14, 586.	1.1	2
5	Synthesis of second order nonlinear optical multichromophore based on double-donors with enhanced electro-optic coefficients and thermal stability. <i>Dyes and Pigments</i> , 2022, 203, 110276.	2.0	3
6	DNA as template and P-source for synthesis of Co ₂ P/Co ₂ N core-shell nanostructure embedded in N-doped carbon nanofiber derived from electrospun precursor for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 367, 137562.	2.6	12
7	Efficient red electroluminescent devices with very low operation voltage by utilizing hole and electron transport materials as the host. <i>Thin Solid Films</i> , 2021, 717, 138474.	0.8	7
8	P-doped CoCO ₃ nanosheets: an ultra-active versatile electrocatalyst for hydrogen evolution, oxygen evolution and hydrazine oxidation reactions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2257-2265.	2.5	11
9	Design and synthesis of Phenylaminothiophene donor-based chromophore with enhanced electro-optic activity. <i>Dyes and Pigments</i> , 2021, 192, 109423.	2.0	7
10	Efficient green fluorescent organic light-emitting diodes with extended lifetimes by exploiting an iridium complex as a sensitizer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15295-15300.	2.7	4
11	Design and synthesis of organic optical nonlinear multichromophore dendrimers based on double-donor structures. <i>Materials Chemistry Frontiers</i> , 2021, 5, 8341-8351.	3.2	8
12	High-performance fluorescent organic electroluminescent devices benefit from sensitization of thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17526-17530.	2.7	1
13	Temperature and doping-tuned coordination environments around electroactive centers in Fe-doped $\text{Ni}(\text{OH})_2$ for excellent water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1522-1531.	2.5	24
14	Nanochannel sensor for sensitive and selective adamantanamine detection based on host-guest competition. <i>Talanta</i> , 2020, 219, 121213.	2.9	18
15	CuO@CoFe Layered Double Hydroxide Core-Shell Heterostructure as an Efficient Water Oxidation Electrocatalyst under Mild Alkaline Conditions. <i>Inorganic Chemistry</i> , 2020, 59, 9491-9495.	1.9	52
16	Alloy Foam-Derived Ni _{0.86} Fe _{2.14} O ₄ Hexagonal Plates as an Efficient Electrochemical Catalyst for the Oxygen Evolution Reaction. <i>ChemistrySelect</i> , 2020, 5, 1578-1585.	0.7	2
17	Polygonal WS ₂ -decorated-graphene multilayer films with microcavities prepared from a cheap precursor as anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2019, 254, 73-76.	1.3	10
18	Engineering multiphase for activating electroactive sites for highly efficient hydrogen evolution: Experimental and theoretical investigation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13323-13333.	3.8	2

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19	Synthesis of Ni _{4.5} Fe _{4.5} S ₈ /Ni ₃ S ₂ film on Ni ₃ Fe alloy foam as an excellent electrocatalyst for the oxygen evolution reaction. RSC Advances, 2019, 9, 10231-10236.	1.7	8
20	Diastereoselective synthesis of cyclopropanes bearing trifluoromethyl-substituted all-carbon quaternary centers from 2-trifluoromethyl-1,3-enynes beyond fluorine elimination. Chemical Communications, 2019, 55, 3879-3882.	2.2	36
21	Vertically aligned NiP ₂ nanosheets with interlaced mesh network for highly efficient water splitting under alkaline and acid solutions. International Journal of Hydrogen Energy, 2019, 44, 6535-6543.	3.8	35
22	Conical nanofluidic channel for selective quantitation of melamine in combination with β -cyclodextrin and a single-walled carbon nanotube. Biosensors and Bioelectronics, 2019, 127, 200-206.	5.3	28
23	Structure–function relationship exploration for enhanced electro-optic activity in isophorone-based organic NLO chromophores. Dyes and Pigments, 2018, 157, 55-63.	2.0	36
24	Octahedral Co ₃ O ₄ particles with high electrochemical surface area as electrocatalyst for water splitting. Electrochimica Acta, 2018, 288, 82-90.	2.6	34
25	Pt CoN supported on TiN-modified carbon nanotubes (Pt CoN/TiN@CNT) as efficient oxygen reduction reaction catalysts in acidic medium. International Journal of Hydrogen Energy, 2018, 43, 14337-14346.	3.8	14
26	Revelation of the Excellent Intrinsic Activity of MoS ₂ NiS MoO ₃ Nanowires for Hydrogen Evolution Reaction in Alkaline Medium. ACS Applied Materials & Interfaces, 2017, 9, 7084-7090.	4.0	94
27	Integrated 3D MoSe ₂ @Ni _{0.85} Se Nanowire Network with Synergistic Cooperation as Highly Efficient Electrocatalysts for Hydrogen Evolution Reaction in Alkaline Medium. Electrochimica Acta, 2017, 246, 712-719.	2.6	69
28	Polyoxometalate–Surfactant Hybrids Directed Assembly of Ni ₃ S ₂ into Hollow Microsphere as Pt-Comparable Electrocatalyst for Hydrogen Evolution Reaction in Alkaline Medium. ACS Applied Materials & Interfaces, 2017, 9, 40162-40170.	4.0	40
29	Co–Fe–Se ultrathin nanosheet-fabricated microspheres for efficient electrocatalysis of hydrogen evolution. Journal of Applied Electrochemistry, 2017, 47, 361-367.	1.5	14
30	Recent Progress in Cobalt-Based Heterogeneous Catalysts for Electrochemical Water Splitting. Advanced Materials, 2016, 28, 215-230.	11.1	2,083
31	Biomimetic phosphate assay based on nanopores obtained by immobilization of zirconium(IV) on a film of polyethyleneimine. Mikrochimica Acta, 2015, 182, 1387-1393.	2.5	13
32	Bare conical nanopore embedded in polymer membrane for Cr(III) sensing. Talanta, 2015, 140, 219-225.	2.9	18
33	Gas-breathing polymer film for constructing switchable ionic diodes. RSC Advances, 2015, 5, 35622-35630.	1.7	13
34	PEI/Zr ⁴⁺ -coated nanopore for selective and sensitive detection of ATP in combination with single-walled carbon nanotubes. Biosensors and Bioelectronics, 2015, 63, 287-293.	5.3	29
35	Investigation of self-assembled protein dimers through an artificial ion channel for DNA sensing. Science Bulletin, 2014, 59, 4946-4952.	1.7	11
36	Inhibition of G-quadruplex assembling by DNA ligation: A versatile and non-covalent labeling strategy for bioanalysis. Biosensors and Bioelectronics, 2014, 51, 336-342.	5.3	17

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37	Biomimetic nanopore for sensitive and selective detection of Hg(II) in conjunction with single-walled carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6371-6377.	2.9	25
38	Signal-amplification detection of small molecules by use of Mg ²⁺ -dependent DNAzyme. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4051-4057.	1.9	9
39	A light transmission technique for pore size measurement in track-etched membranes. <i>Chemical Communications</i> , 2013, 49, 11415.	2.2	19
40	Colorimetric Enantio-recognition of Oligopeptide and Logic Gate Construction Based on DNA Aptamer-Ligand-Gold Nanoparticle Interactions. <i>Chemistry - A European Journal</i> , 2013, 19, 479-483.	1.7	23
41	An electrochemical aptasensor for chiral peptide detection using layer-by-layer assembly of polyelectrolyte-methylene blue/polyelectrolyte-graphene multilayer. <i>Analytica Chimica Acta</i> , 2012, 712, 127-131.	2.6	49
42	Contribution of potassium ion and split modes of G-quadruplex to the sensitivity and selectivity of label-free sensor toward DNA detection using fluorescence. <i>Biosensors and Bioelectronics</i> , 2012, 31, 316-322.	5.3	29
43	Learning-enhanced differential evolution for numerical optimization. <i>Soft Computing</i> , 2012, 16, 303-330.	2.1	49
44	Kinetically grafting G-quadruplexes onto DNA nanostructures for structure and function encoding via a DNA machine. <i>Chemical Communications</i> , 2011, 47, 10563.	2.2	55
45	pH-Reversed ionic current rectification displayed by conically shaped nanochannel without any modification. <i>Nanoscale</i> , 2011, 3, 3767.	2.8	31
46	Single-walled carbon nanotubes based quenching of free FAM-aptamer for selective determination of ochratoxin A. <i>Talanta</i> , 2011, 85, 2517-2521.	2.9	144
47	Label-free detection of nucleic acids by turn-on and turn-off G-quadruplex-mediated fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2763-2770.	1.9	34
48	PVP-coated graphene oxide for selective determination of ochratoxin A via quenching fluorescence of free aptamer. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3494-3499.	5.3	229
49	G-Quadruplex-Modulated Fluorescence Detection of Potassium in the Presence of a 3500-Fold Excess of Sodium Ions. <i>Analytical Chemistry</i> , 2010, 82, 8356-8360.	3.2	93
50	G-quadruplex facilitated turn-off fluorescent chemosensor for selective detection of cupric ion. <i>Chemical Communications</i> , 2010, 46, 7385.	2.2	67
51	A new drug-sensing paradigm based on ion-current rectification in a conically shaped nanopore. <i>Nanomedicine</i> , 2008, 3, 13-20.	1.7	51
52	Template-Synthesized DNA Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 8586-8587.	6.6	117
53	Template-Synthesized Protein Nanotubes. <i>Nano Letters</i> , 2005, 5, 231-234.	4.5	186