

Aijian Wang

List of Publications by Year in descending order

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44
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1,091
citations

394421

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414414

32
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45
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Triple Functions of Ni(OH) ₂ on the Surface of WN Nanowires Remarkably Promoting Electrocatalytic Activity in Full Water Splitting. ACS Catalysis, 2020, 10, 13323-13333.	11.2	120
2	Polyaniline decorated Bi ₂ MoO ₆ nanosheets with effective interfacial charge transfer as photocatalysts and optical limiters. Physical Chemistry Chemical Physics, 2017, 19, 28696-28709.	2.8	60
3	Influence of metal-porphyrins on the photocatalysis of graphitic carbon nitride. Dyes and Pigments, 2018, 153, 241-247.	3.7	60
4	Insights into the synergistic effect of multi-walled carbon nanotube decorated Mo-doped CoP ₂ hybrid electrocatalysts toward efficient and durable overall water splitting. Journal of Materials Chemistry A, 2020, 8, 17621-17633.	10.3	53
5	Electrochemical hydrogen and oxygen evolution reactions from a cobalt-porphyrin-based covalent organic polymer. Journal of Colloid and Interface Science, 2020, 579, 598-606.	9.4	53
6	Facile Synthesis and Enhanced Nonlinear Optical Properties of Porphyrin-Functionalized Multi-Walled Carbon Nanotubes. Chemistry - A European Journal, 2013, 19, 14159-14170.	3.3	49
7	Porphyrin coordination polymer/Co ^x S composite electrocatalyst for efficient oxygen evolution reaction. Chemical Engineering Journal, 2020, 400, 125975.	12.7	48
8	Novel Bi ₂ O ₂ CO ₃ /polypyrrole/g-C ₃ N ₄ nanocomposites with efficient photocatalytic and nonlinear optical properties. RSC Advances, 2017, 7, 7658-7670.	3.6	47
9	Graphene-oxide-supported covalent organic polymers based on zinc phthalocyanine for efficient optical limiting and hydrogen evolution. Journal of Colloid and Interface Science, 2019, 556, 159-171.	9.4	37
10	Porphyrin decorated Bi ₂ O ₂ CO ₃ nanocomposites with efficient difunctional properties of photocatalysis and optical nonlinearity. Journal of Alloys and Compounds, 2018, 748, 929-937.	5.5	35
11	Accessible fabrication and mechanism insight of heterostructured BiOCl/Bi ₂ MoO ₆ /g-C ₃ N ₄ nanocomposites with efficient photosensitized activity. Journal of Alloys and Compounds, 2017, 726, 164-172.	5.5	33
12	Improved solubility and efficient optical limiting for methacrylate-co-porphyrins covalently functionalized single walled carbon nanotube nanohybrids. Dyes and Pigments, 2019, 161, 155-161.	3.7	32
13	Cooperative enhancement of optical nonlinearities in a porphyrin derivative bearing a pyrimidine chromophore at the periphery. Organic and Biomolecular Chemistry, 2013, 11, 4250.	2.8	30
14	Reduced graphene oxide covalently functionalized with polyaniline for efficient optical nonlinearities at 532 and 1064 nm. Dyes and Pigments, 2019, 160, 344-352.	3.7	28
15	Fabrication of pyrimidine/g-C ₃ N ₄ nanocomposites for efficient photocatalytic activity under visible-light illumination. Dyes and Pigments, 2019, 163, 634-640.	3.7	28
16	Coordination-induced broadband optical nonlinearity through axial bonding of pyridine anchored methine-bridged polypyrrole to metal-porphyrins. Dyes and Pigments, 2018, 157, 20-26.	3.7	27
17	Efficient photoelectrochemical water oxidation of cobalt phthalocyanine decorated BiVO ₄ photoanode by improving kinetics. Applied Surface Science, 2021, 564, 150463.	6.1	27
18	Effect of acid/base on the third-order optical nonlinearity of polypyrrole. Journal of Molecular Structure, 2015, 1099, 291-296.	3.6	24

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19	Efficient optical limiting of polypyrrole ternary nanohybrids co-functionalized with peripherally substituted porphyrins and axially coordinated metal-porphyrins. Dalton Transactions, 2019, 48, 14467-14477.	3.3	24
20	Enhanced optical limiting and hydrogen evolution of graphene oxide nanohybrids covalently functionalized by covalent organic polymer based on porphyrin. Dalton Transactions, 2021, 50, 7007-7016.	3.3	20
21	Allyloxyporphyrin-Functionalized Multiwalled Carbon Nanotubes: Synthesis by Radical Polymerization and Enhanced Optical-Limiting Properties. Chemistry - an Asian Journal, 2014, 9, 639-648.	3.3	19
22	Effect of covalent linkage between hexagonal boron nitride and porphyrins on the optical nonlinearities. Journal of Alloys and Compounds, 2019, 775, 1007-1015.	5.5	19
23	Mechanistic insight on porphyrin based porous titanium coordination polymer as efficient bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. Dyes and Pigments, 2020, 181, 108568.	3.7	19
24	Multifunctional carbon nitride nano-homojunction decorated g-C ₃ N ₄ nanocomposites for optoelectronic performances. Applied Surface Science, 2019, 467-468, 1140-1147.	6.1	16
25	Regulating the type of cobalt porphyrins for synergistic promotion of photoelectrochemical water splitting of BiVO ₄ . Dyes and Pigments, 2021, 192, 109468.	3.7	16
26	Effect of hydrothermal reduction temperature on the optical nonlinearities of porphyrin covalently functionalized graphene oxide. Dyes and Pigments, 2019, 167, 189-194.	3.7	15
27	Efficient catalytic activity of BiOBr@polyaniline-MnO ₂ ternary nanocomposites for sunlight-driven photodegradation of ciprofloxacin. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 386, 112126.	3.9	15
28	Rational design of FeO _x -MoP@MWCNT composite electrocatalysts toward efficient overall water splitting. Chemical Communications, 2021, 57, 6149-6152.	4.1	15
29	Synergistic optimization promoted overall water splitting of CoSe@NiSe ₂ @MoS ₂ heterostructured composites. Chemical Communications, 2021, 57, 12516-12519.	4.1	14
30	Boosted charge transfer in porphyrin and zinc phthalocyanine co-functionalized graphene oxide nanohybrids toward improved optical limiting and H ₂ evolution. Dyes and Pigments, 2021, 187, 109142.	3.7	13
31	Strongly Coupled Nitrogen-Doped Mo ₂ C@CoNi Alloy Hybrid Architecture toward Efficient Hydrogen Evolution Reaction. Inorganic Chemistry, 2022, 61, 4114-4120.	4.0	13
32	Graphene oxide ternary nanohybrids co-functionalized by phenyl porphyrins and thienyl-appended porphyrins for efficient optical limiting. Dyes and Pigments, 2020, 174, 108057.	3.7	12
33	A tin porphyrin axially-coordinated two-dimensional covalent organic polymer for efficient hydrogen evolution. Chemical Communications, 2022, 58, 7423-7426.	4.1	12
34	Nonlinear optical modification of single-walled carbon nanotube by decorating with metal and metal-free porphyrins. Diamond and Related Materials, 2020, 106, 107838.	3.9	11
35	A novel zinc tetraphenylporphyrinate substituted in the axial position with one E-stilbazole: Synthesis, structure, and nonlinear optics. Inorganic Chemistry Communication, 2015, 57, 47-50.	3.9	9
36	Efficient nonlinear-optical behaviors of chiral-amide-bonded porphyrin noncovalent functionalized MWCNTs by terminated pyrene units. New Journal of Chemistry, 2020, 44, 14890-14895.	2.8	9

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37	Facile synthesis and photocatalytic activity of a novel titanium dioxide nanocomposite coupled with zinc porphyrin. <i>Nanomaterials and Nanotechnology</i> , 2016, 6, 184798041666948.	3.0	7
38	Nonlinear optical performances of graphene oxide ternary nanohybrids functionalized by axially coordinated gallium porphyrins. <i>New Journal of Chemistry</i> , 2020, 44, 16468-16476.	2.8	6
39	Substituent effects of symmetric cobalt porphyrins using graphene oxide as substrate on catalytic oxygen reduction reactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128499.	4.7	6
40	Synergistic promoted nonlinear optical effects in polyaniline nanohybrids covalently functionalized with tin porphyrin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 650, 129588.	4.7	6
41	The Role of Lewis and Brønsted Acid Sites in NO Reduction with NH ₃ on Sulfur Modified TiO ₂ -Supported V ₂ O ₅ Catalyst. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 2489-2494.	0.6	4
42	Crystal structure of 4,6-bis[(E)-4-bromostyryl]-2-(butylsulfanyl)pyrimidine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o1282-o1282.	0.2	0
43	Crystal structure of 2-butylsulfanyl-4,6-bis[(E)-styryl]pyrimidine. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o368-o368.	0.5	0
44	Porphyrin and Phthalocyanine Covalently Functionalized Graphene and Carbon Nanotube Nanohybrids for Optical Limiting. , 0, , .		0