Bao-Yun Sun

List of Publications by Year
in descending order

48 papers	1,337 citations	471371 17 h-index	345118 36 g-index
49 all docs	49 docs citations	49 times ranked	2134 citing authors

#	Article	IF	Citations
1	Different mechanisms of improving CH3NH3PbI3 perovskite solar cells brought by fluorinated or nitrogen doped graphdiyne. Nano Research, 2022, 15, 573-580.	5.8	15
2	Triazine-graphdiyne with well-defined two kinds of active sites for simultaneous detection of Pb2+ and Cd2+. Journal of Environmental Chemical Engineering, 2022, 10, 107159.	3.3	12
3	Transparent graphene electrodes based hybrid perovskites photodetectors with broad spectral response from UVâ€“visible to near-infrared. Nanotechnology, 2022, 33, 085204.	1.3	3
4	Graphdiyne Oxide Quantum Dots: The Enhancement of Peroxidase-like Activity and Their Applications in Sensing H₂O₂ and Cysteine. ACS Applied Bio Materials, 2022, 5, 3418-3427.	2.3	8
5	Carbon phase adjustment by multi-configuration ligand in endohedral metallofullerene derivatives Gd@C82(morpholine)7 under high pressure. Nano Today, 2021, 37, 101079.	6.2	0
6	Electrochemical sensor based on graphdiyne is effectively used to determine Cd2+ and Pb2+ in water. Sensors and Actuators B: Chemical, 2021, 332, 129519.	4.0	59
7	Paramagnetic properties adjustment for Gd@C(9)-C82 by regioselective multi-amination. Carbon, 2020, 158, 320-326.	5.4	4
8	Elucidating the mechanisms underlying PCBM enhancement of CH3NH3PbI3 perovskite solar cells using GIXRD and XAFS. Journal of Materials Chemistry A, 2020, 8, 3145-3153.	5.2	17
9	Preparing dangling bonds by nanoholes on graphene oxide nanosheets and their enhanced magnetism. RSC Advances, 2020, 10, 36378-36385.	1.7	9
10	MnO₂/Porous Carbon Nanotube/MnO₂Nanocomposites for High-Performance Supercapacitor. ACS Applied Nano Materials, 2020, 3, 11152-11159.	2.4	33
11	Structure optimization of CH3NH3PbI3 by higher-valence Pb in perovskite solar cells with enhanced efficiency and stability. Solar Energy, 2020, 205, 202-210.	2.9	10
12	Amination of the Gd@C82 endohedral fullerene: tunable substitution effect on quantum coherence behaviors. Chemical Science, 2020, 11, 10737-10743.	3.7	9
13	N-Doping Holey Graphene TiO₂â€“Pt Composite as Efficient Electrocatalyst for Methanol Oxidation. ACS Applied Energy Materials, 2020, 3, 2665-2673.	2.5	21
14	High performance determination of Pb2+ in water by 2,4-dithiobiuret-Reduced graphene oxide composite with wide linear range and low detection limit. Analytica Chimica Acta, 2020, 1125, 76-85.	2.6	10
15	Turning On the Near-Infrared Photoluminescence of Erbium Metallofullerenes by Covalent Modification. Inorganic Chemistry, 2019, 58, 14325-14330.	1.9	12
16	The Gold Nanocluster Protects Neurons Directly or via Inhibiting Cytotoxic Secretions of Microglia Cell. Journal of Nanoscience and Nanotechnology, 2019, 19, 1986-1995.	0.9	14
17	Facile Synthesis of Ni-Based Catalysts by Adsorption and Conversion of Metal Ions on Graphene Oxide for Methanol Oxidation. Electrocatalysis, 2018, 9, 429-436.	1.5	6
18	In Situ Synchrotron X-ray Diffraction and Raman Spectroscopy Studies of Gd@C₈₂â€“S₈ under High Pressure. Journal of Physical Chemistry C, 2018, 122, 10992-10998.	1.5	6

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19	Highly delocalized endohedral metal in Gd@C2v(9)-C82 metallofullerenes co-crystallized with Î±-S8. Nano Research, 2018, 11, 2277-2284.	5.8	10
20	Nanocrystalline Perovskite Hybrid Photodetectors with High Performance in Almost Every Figure of Merit. Advanced Functional Materials, 2018, 28, 1705589.	7.8	42
21	Regioselective Polyamination of Gd@C2v(9)-C82 and Non-High Performance Liquid Chromatography Rapid Separation of Gd@C82(morpholine)7. Chemistry of Materials, 2018, 30, 64-68.	3.2	8
22	Nanoparticles with High-Surface Negative-Charge Density Disturb the Metabolism of Low-Density Lipoprotein in Cells. International Journal of Molecular Sciences, 2018, 19, 2790.	1.8	15
23	Fluorescent activatable gadofullerene nanoprobes as NIR-MR dual-modal in vivo imaging contrast agent. Colloids and Surfaces B: Biointerfaces, 2018, 171, 159-166.	2.5	2
24	Gd@C82(OH)22 harnesses inflammatory regeneration for osteogenesis of mesenchymal stem cells through JNK/STAT3 signaling pathway. Journal of Materials Chemistry B, 2018, 6, 5802-5811.	2.9	12
25	Study on the antigenicity of metallofullerenol: antibody production, characterization, and its enzyme immunoassay application. Analytical and Bioanalytical Chemistry, 2017, 409, 6575-6581.	1.9	0
26	Metallofullerenol Inhibits Cellular Iron Uptake by Inducing Transferrin Tetramerization. Chemistry - an Asian Journal, 2017, 12, 2646-2651.	1.7	8
27	Adaption of the structure of carbon nanohybrids toward high-relaxivity for a new MRI contrast agent. RSC Advances, 2016, 6, 58028-58033.	1.7	13
28	Synthesis of a UCNPs@SiO₂@gadofullerene nanocomposite and its application in UCL/MR bimodal imaging. RSC Advances, 2016, 6, 98968-98974.	1.7	13
29	Novel exciton dissociation behavior in tin-lead organohalide perovskites. Nano Energy, 2016, 27, 638-646.	8.2	28
30	Polyhydroxylated fullerenols regulate macrophage for cancer adoptive immunotherapy and greatly inhibit the tumor metastasis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 945-954.	1.7	46
31	Gd-metallofullerenol nanomaterial as non-toxic breast cancer stem cell-specific inhibitor. Nature Communications, 2015, 6, 5988.	5.8	164
32	Eu³⁺:Y₂O₃@CNTsâ€"a rare earth filled carbon nanotube nanomaterial with low toxicity and good photoluminescence properties. RSC Advances, 2015, 5, 21634-21639.	1.7	6
33	The isotopic effects of ¹³C-labeled large carbon cage (C₇₀) fullerenes and their formation process. RSC Advances, 2015, 5, 76949-76956.	1.7	14
34	An organicâ€"inorganic hybrid perovskite logic gate for better computing. Journal of Materials Chemistry C, 2015, 3, 10793-10798.	2.7	77
35	Novel carbon nanohybrids as highly efficient magnetic resonance imaging contrast agents. Nano Research, 2015, 8, 1259-1268.	5.8	29
36	Polyhydroxylated Metallofullerenols Stimulate ILâ€1Î² Secretion of Macrophage through TLRs/MyD88/NFâ€ºB Pathway and NLRP₃ Inflammasome Activation. Small, 2014, 10, 2362-2372.	5.2	96

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37	Induction of apoptosis through ER stress and TP53 in MCF-7 cells by the nanoparticle [Gd@C82(OH)22]n: A systems biology study. Methods, 2014, 67, 394-406.	1.9	15
38	Quantification of carbon nanomaterials in vivo: direct stable isotope labeling on the skeleton of fullerene C₆₀. Environmental Science: Nano, 2014, 1, 64-70.	2.2	26
39	Metallofullerenols: Polyhydroxylated Metallofullerenols Stimulate IL-1Î² Secretion of Macrophage through TLRs/MyD88/NF-Î°B Pathway and NLRP3Inflammasome Activation (Small 12/2014). Small, 2014, 10, 2310-2310.	5.2	2
40	An Electrochemical Immunosensor for Fullerenol Detection Based on the Generated Antibody. Analytical Letters, 2013, 46, 2213-2222.	1.0	4
41	Gadolinium metallofullerenol nanoparticles inhibit cancer metastasis through matrix metalloproteinase inhibition: imprisoning instead of poisoning cancer cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 136-146.	1.7	101
42	Electrochemistry of a C₈₄-C₂(IV)-Modified Electrode in Aqueous Solutions and Its Interaction with Guanine. Journal of Physical Chemistry C, 2011, 115, 5966-5973.	1.5	2
43	Biosafety assessment of Gd@C82(OH)22 nanoparticles on Caenorhabditis elegans. Nanoscale, 2011, 3, 2636.	2.8	46
44	The effect of Gd@C82(OH)22 nanoparticles on the release of Th1/Th2 cytokines and induction of TNF-Î± mediated cellular immunity. Biomaterials, 2009, 30, 3934-3945.	5.7	177
45	An Anomalous Endohedral Structure of Eu@C82 Metallofullerenes. Angewandte Chemie - International Edition, 2005, 44, 4568-4571.	7.2	39
46	Entrapping of Exohedral Metallofullerenes in Carbon Nanotubes:â€‰ (CsC60)n@SWNT Nano-Peapods. Journal of the American Chemical Society, 2005, 127, 17972-17973.	6.6	47
47	Improved extraction of metallofullerenes with DMF at high temperature. Carbon, 2002, 40, 1591-1595.	5.4	35
48	Systematic Study of Perovskite Layers if Doped with Strong Oxidants. Solar Rrl, 0, , 2200159.	3.1	1