

Bao-Yun Sun

List of Publications by Year in descending order

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Version: 2024-02-01

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	The effect of Gd@C82(OH)22 nanoparticles on the release of Th1/Th2 cytokines and induction of TNF- α mediated cellular immunity. <i>Biomaterials</i> , 2009, 30, 3934-3945.	5.7	177
2	Gd-metallofullerenol nanomaterial as non-toxic breast cancer stem cell-specific inhibitor. <i>Nature Communications</i> , 2015, 6, 5988.	5.8	164
3	Gadolinium metallofullerenol nanoparticles inhibit cancer metastasis through matrix metalloproteinase inhibition: imprisoning instead of poisoning cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 136-146.	1.7	101
4	Polyhydroxylated Metallofullerenols Stimulate IL-1 β Secretion of Macrophage through TLRs/MyD88/NF- κ B Pathway and NLRP3 Inflammasome Activation. <i>Small</i> , 2014, 10, 2362-2372.	5.2	96
5	An organic-inorganic hybrid perovskite logic gate for better computing. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10793-10798.	2.7	77
6	Electrochemical sensor based on graphdiyne is effectively used to determine Cd ²⁺ and Pb ²⁺ in water. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129519.	4.0	59
7	Entrapping of Exohedral Metallofullerenes in Carbon Nanotubes: (CsC60) _n @SWNT Nano-Peapods. <i>Journal of the American Chemical Society</i> , 2005, 127, 17972-17973.	6.6	47
8	Biosafety assessment of Gd@C82(OH)22 nanoparticles on <i>Caenorhabditis elegans</i> . <i>Nanoscale</i> , 2011, 3, 2636.	2.8	46
9	Polyhydroxylated fullerenols regulate macrophage for cancer adoptive immunotherapy and greatly inhibit the tumor metastasis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 945-954.	1.7	46
10	Nanocrystalline Perovskite Hybrid Photodetectors with High Performance in Almost Every Figure of Merit. <i>Advanced Functional Materials</i> , 2018, 28, 1705589.	7.8	42
11	An Anomalous Endohedral Structure of Eu@C82 Metallofullerenes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4568-4571.	7.2	39
12	Improved extraction of metallofullerenes with DMF at high temperature. <i>Carbon</i> , 2002, 40, 1591-1595.	5.4	35
13	MnO ₂ /Porous Carbon Nanotube/MnO ₂ Nanocomposites for High-Performance Supercapacitor. <i>ACS Applied Nano Materials</i> , 2020, 3, 11152-11159.	2.4	33
14	Novel carbon nanohybrids as highly efficient magnetic resonance imaging contrast agents. <i>Nano Research</i> , 2015, 8, 1259-1268.	5.8	29
15	Novel exciton dissociation behavior in tin-lead organohalide perovskites. <i>Nano Energy</i> , 2016, 27, 638-646.	8.2	28
16	Quantification of carbon nanomaterials in vivo: direct stable isotope labeling on the skeleton of fullerene C ₆₀ . <i>Environmental Science: Nano</i> , 2014, 1, 64-70.	2.2	26
17	N-Doping Holey Graphene TiO ₂ -Pt Composite as Efficient Electrocatalyst for Methanol Oxidation. <i>ACS Applied Energy Materials</i> , 2020, 3, 2665-2673.	2.5	21
18	Elucidating the mechanisms underlying PCBM enhancement of CH ₃ NH ₃ PbI ₃ perovskite solar cells using GIXRD and XAFS. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3145-3153.	5.2	17

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19	Induction of apoptosis through ER stress and TP53 in MCF-7 cells by the nanoparticle [Gd@C82(OH)22]n: A systems biology study. <i>Methods</i> , 2014, 67, 394-406.	1.9	15
20	Nanoparticles with High-Surface Negative-Charge Density Disturb the Metabolism of Low-Density Lipoprotein in Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2790.	1.8	15
21	Different mechanisms of improving CH ₃ NH ₃ PbI ₃ perovskite solar cells brought by fluorinated or nitrogen doped graphdiyne. <i>Nano Research</i> , 2022, 15, 573-580.	5.8	15
22	The isotopic effects of ¹³ C-labeled large carbon cage (C ₇₀) fullerenes and their formation process. <i>RSC Advances</i> , 2015, 5, 76949-76956.	1.7	14
23	The Gold Nanocluster Protects Neurons Directly or via Inhibiting Cytotoxic Secretions of Microglia Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1986-1995.	0.9	14
24	Adaption of the structure of carbon nanohybrids toward high-relaxivity for a new MRI contrast agent. <i>RSC Advances</i> , 2016, 6, 58028-58033.	1.7	13
25	Synthesis of a UCNPs@SiO ₂ @gadofullerene nanocomposite and its application in UCL/MR bimodal imaging. <i>RSC Advances</i> , 2016, 6, 98968-98974.	1.7	13
26	Gd@C82(OH)22 harnesses inflammatory regeneration for osteogenesis of mesenchymal stem cells through JNK/STAT3 signaling pathway. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5802-5811.	2.9	12
27	Turning On the Near-Infrared Photoluminescence of Erbium Metallofullerenes by Covalent Modification. <i>Inorganic Chemistry</i> , 2019, 58, 14325-14330.	1.9	12
28	Triazine-graphdiyne with well-defined two kinds of active sites for simultaneous detection of Pb ²⁺ and Cd ²⁺ . <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107159.	3.3	12
29	Highly delocalized endohedral metal in Gd@C _{2v} (9)-C82 metallofullerenes co-crystallized with I [±] -S8. <i>Nano Research</i> , 2018, 11, 2277-2284.	5.8	10
30	Structure optimization of CH ₃ NH ₃ PbI ₃ by higher-valence Pb in perovskite solar cells with enhanced efficiency and stability. <i>Solar Energy</i> , 2020, 205, 202-210.	2.9	10
31	High performance determination of Pb ²⁺ in water by 2,4-dithiobiuret-Reduced graphene oxide composite with wide linear range and low detection limit. <i>Analytica Chimica Acta</i> , 2020, 1125, 76-85.	2.6	10
32	Preparing dangling bonds by nanoholes on graphene oxide nanosheets and their enhanced magnetism. <i>RSC Advances</i> , 2020, 10, 36378-36385.	1.7	9
33	Amination of the Gd@C82 endohedral fullerene: tunable substitution effect on quantum coherence behaviors. <i>Chemical Science</i> , 2020, 11, 10737-10743.	3.7	9
34	Metallofullerenol Inhibits Cellular Iron Uptake by Inducing Transferrin Tetramerization. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2646-2651.	1.7	8
35	Regioselective Polyamination of Gd@C _{2v} (9)-C82 and Non-High Performance Liquid Chromatography Rapid Separation of Gd@C82(morpholine) ₇ . <i>Chemistry of Materials</i> , 2018, 30, 64-68.	3.2	8
36	Graphdiyne Oxide Quantum Dots: The Enhancement of Peroxidase-like Activity and Their Applications in Sensing H ₂ O ₂ and Cysteine. <i>ACS Applied Bio Materials</i> , 2022, 5, 3418-3427.	2.3	8

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37	Eu ³⁺ :Y ²⁺ O ₃ @CNTs a rare earth filled carbon nanotube nanomaterial with low toxicity and good photoluminescence properties. RSC Advances, 2015, 5, 21634-21639.	1.7	6
38	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
39	In Situ Synchrotron X-ray Diffraction and Raman Spectroscopy Studies of Gd@C ₈₂ S ₈ under High Pressure. Journal of Physical Chemistry C, 2018, 122, 10992-10998.	1.5	6
40	An Electrochemical Immunosensor for Fullerol Detection Based on the Generated Antibody. Analytical Letters, 2013, 46, 2213-2222.	1.0	4
41	Paramagnetic properties adjustment for Gd@C(9)-C82 by regioselective multi-amination. Carbon, 2020, 158, 320-326.	5.4	4
42	Transparent graphene electrodes based hybrid perovskites photodetectors with broad spectral response from UV to visible to near-infrared. Nanotechnology, 2022, 33, 085204.	1.3	3
43	Electrochemistry of a C ₈₄ -C ₂ (IV)-Modified Electrode in Aqueous Solutions and Its Interaction with Guanine. Journal of Physical Chemistry C, 2011, 115, 5966-5973.	1.5	2
44	Metallofullerenols: Polyhydroxylated Metallofullerenols Stimulate IL-1 β Secretion of Macrophage through TLRs/MyD88/NF- κ B Pathway and NLRP3 Inflammasome Activation (Small 12/2014). Small, 2014, 10, 2310-2310.	5.2	2
45	Fluorescent activatable gadofullerene nanoprobe as NIR-MR dual-modal in vivo imaging contrast agent. Colloids and Surfaces B: Biointerfaces, 2018, 171, 159-166.	2.5	2
46	Systematic Study of Perovskite Layers if Doped with Strong Oxidants. Solar Rrl, 0, , 2200159.	3.1	1
47	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
48	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