

Zhuo Chen

List of Publications by Year in descending order

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76
papers

6,075
citations

159585

30
h-index

69250

77
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79
all docs

79
docs citations

79
times ranked

10070
citing authors

#	ARTICLE	IF	CITATIONS
1	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009, 4, 773-780.	31.5	1,068
2	TiO ₂ nanocrystals grown on graphene as advanced photocatalytic hybrid materials. <i>Nano Research</i> , 2010, 3, 701-705.	10.4	693
3	Preparation of carbon nanotube bioconjugates for biomedical applications. <i>Nature Protocols</i> , 2009, 4, 1372-1381.	12.0	398
4	Advanced asymmetrical supercapacitors based on graphene hybrid materials. <i>Nano Research</i> , 2011, 4, 729-736.	10.4	390
5	Noncanonical Self-Assembly of Multifunctional DNA Nanoflowers for Biomedical Applications. <i>Journal of the American Chemical Society</i> , 2013, 135, 16438-16445.	13.7	357
6	Precise nanomedicine for intelligent therapy of cancer. <i>Science China Chemistry</i> , 2018, 61, 1503-1552.	8.2	336
7	Protein microarrays with carbon nanotubes as multicolor Raman labels. <i>Nature Biotechnology</i> , 2008, 26, 1285-1292.	17.5	317
8	Simultaneous Application of Photothermal Therapy and an Anti-inflammatory Prodrug using Pyrene-Aspirin-Loaded Gold Nanorod Graphitic Nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 177-181.	13.8	169
9	Pattern Recognition of Cancer Cells Using Aptamer-Conjugated Magnetic Nanoparticles. <i>ACS Nano</i> , 2012, 6, 3974-3981.	14.6	162
10	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. <i>Nature Biomedical Engineering</i> , 2020, 4, 325-334.	22.5	160
11	Alkyne-Functionalized Superstable Graphitic Silver Nanoparticles for Raman Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 13558-13561.	13.7	154
12	Aptamer-conjugated nanomaterials for specific cancer cell recognition and targeted cancer therapy. <i>NPG Asia Materials</i> , 2014, 6, e95-e95.	7.9	111
13	In vivo activation of pH-responsive oxidase-like graphitic nanozymes for selective killing of <i>Helicobacter pylori</i> . <i>Nature Communications</i> , 2021, 12, 2002.	12.8	99
14	Fabrication of Graphene-isolated-Au-nanocrystal Nanostructures for Multimodal Cell Imaging and Photothermal-enhanced Chemotherapy. <i>Scientific Reports</i> , 2014, 4, 6093.	3.3	95
15	Single-walled carbon nanotubes as optical materials for biosensing. <i>Nanoscale</i> , 2011, 3, 1949.	5.6	79
16	Electrochemical determination of paracetamol based on Au@graphene core-shell nanoparticles doped conducting polymer PEDOT nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 778-785.	7.8	78
17	Multiple Functional Nanoprobe for Contrast-Enhanced Bimodal Cellular Imaging and Targeted Therapy. <i>Analytical Chemistry</i> , 2015, 87, 4448-4454.	6.5	69
18	Localizable and Photoactivatable Fluorophore for Spatiotemporal Two-Photon Bioimaging. <i>Analytical Chemistry</i> , 2015, 87, 5626-5631.	6.5	60

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19	Graphite-Coated Magnetic Nanoparticle Microarray for Few-Cells Enrichment and Detection. ACS Nano, 2012, 6, 1094-1101.	14.6	57
20	Stable Graphene-Isolated-Au-Nanocrystal for Accurate and Rapid Surface Enhancement Raman Scattering Analysis. Analytical Chemistry, 2016, 88, 10611-10616.	6.5	54
21	Isotopic graphene-encapsulated-Au-nanocrystals with cellular Raman-silent signals for cancer cell pattern recognition. Chemical Science, 2018, 9, 2842-2849.	7.4	51
22	Portable and Label-Free Detection of Blood Bilirubin with Graphene-Isolated-Au-Nanocrystals Paper Strip. Analytical Chemistry, 2018, 90, 13687-13694.	6.5	47
23	Stable and unique graphitic Raman internal standard nanocapsules for surface-enhanced Raman spectroscopy quantitative analysis. Nano Research, 2016, 9, 1418-1425.	10.4	45
24	Plasma-assisted nitrogen doping of graphene-encapsulated Pt nanocrystals as efficient fuel cell catalysts. Journal of Materials Chemistry A, 2014, 2, 472-477.	10.3	44
25	In situ targeted MRI detection of Helicobacter pylori with stable magnetic graphitic nanocapsules. Nature Communications, 2017, 8, 15653.	12.8	41
26	Fluorescent Nanosensor for Probing Histone Acetyltransferase Activity Based on Acetylation Protection and Magnetic Graphitic Nanocapsules. Small, 2015, 11, 877-885.	10.0	40
27	Stable gold graphitic nanocapsule doped hydrogels for efficient photothermal antibacterial applications. Chemical Communications, 2019, 55, 5359-5362.	4.1	40
28	Magnetic Graphitic Nanocapsules for Programmed DNA Fishing and Detection. Small, 2013, 9, 951-957.	10.0	39
29	Nuclease-resistant synthetic drug-DNA adducts: programmable drug-DNA conjugation for targeted anticancer drug delivery. NPC Asia Materials, 2015, 7, e169-e169.	7.9	34
30	Free-standing 2D nanorrafts by assembly of 1D nanorods for biomolecule sensing. Nanoscale, 2019, 11, 12169-12176.	5.6	30
31	<i>Akkermansia muciniphila</i> Enhances the Antitumor Effect of Cisplatin in Lewis Lung Cancer Mice. Journal of Immunology Research, 2020, 2020, 1-13.	2.2	30
32	Generalized Preparation of Two-Dimensional Quasi-nanosheets via Self-assembly of Nanoparticles. Journal of the American Chemical Society, 2019, 141, 1725-1734.	13.7	29
33	Charge-Transfer Cocrystal via a Persistent Radical Cation Acceptor for Efficient Solar-Thermal Conversion. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
34	Simultaneous tracking of drug molecules and carriers using aptamer-functionalized fluorescent superstable gold nanorod-encapsulated carbon nanocapsules during thermo-chemotherapy. Nanoscale, 2016, 8, 7942-7948.	5.6	28
35	Simultaneous Application of Photothermal Therapy and an Anti-inflammatory Prodrug using Pyrene-Aspirin-Loaded Gold Nanorod Graphitic Nanocapsules. Angewandte Chemie, 2018, 130, 183-187.	2.0	28
36	Modulating the Morphology of Gold Graphitic Nanocapsules for Plasmon Resonance-Enhanced Multimodal Imaging. Analytical Chemistry, 2016, 88, 5385-5391.	6.5	25

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37	Hollow graphitic nanocapsules as efficient electrode materials for sensitive Hydrogen peroxide detection. <i>Biosensors and Bioelectronics</i> , 2014, 52, 438-444.	10.1	24
38	Magnetic-graphitic-nanocapsule templated diacetylene assembly and photopolymerization for sensing and multicoded anti-counterfeiting. <i>Nanoscale</i> , 2014, 6, 13097-13103.	5.6	23
39	Graphene encapsulated Ru nanocrystal with highly-efficient peroxidase-like activity for glutathione detection at near-physiological pH. <i>Chemical Communications</i> , 2021, 57, 7669-7672.	4.1	22
40	Surfactant-Free Interface Suspended Gold Graphitic Surface-Enhanced Raman Spectroscopy Substrate for Simultaneous Multiphase Analysis. <i>Analytical Chemistry</i> , 2018, 90, 11183-11187.	6.5	21
41	Cell-SELEX-based aptamer-conjugated nanomaterials for enhanced targeting of cancer cells. <i>Science China Chemistry</i> , 2011, 54, 1218-1226.	8.2	20
42	The influence of physiological environment on the targeting effect of aptamer-guided gold nanoparticles. <i>Nano Research</i> , 2019, 12, 129-135.	10.4	20
43	Versatile metal graphitic nanocapsules for SERS bioanalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 1581-1592.	9.0	19
44	Alkyne functionalized graphene-isolated-Au-nanocrystal for the ratiometric SERS sensing of alkaline phosphatase with acetonitrile solvent as an internal standard. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129373.	7.8	19
45	Fabrication of superstable gold nanorod@carbon nanocapsule as a molecule loading material. <i>Science Bulletin</i> , 2015, 60, 1101-1107.	9.0	18
46	In situ pepsin-assisted needle assembly of magnetic-graphitic-nanocapsules for enhanced gastric retention and mucus penetration. <i>Nano Today</i> , 2021, 36, 101032.	11.9	18
47	Stabilizing Enzymes in Plasmonic Silk Film for Synergistic Therapy of In Situ SERS Identified Bacteria. <i>Advanced Science</i> , 2022, 9, e2104576.	11.2	17
48	A Magnetocatalytic Propelled Cobalt@Platinum@Graphene Navigator for Enhanced Tumor Penetration and Theranostics. <i>CCS Chemistry</i> , 2022, 4, 2382-2395.	7.8	16
49	Advances in metal graphitic nanocapsules for biomedicine. <i>Exploration</i> , 2022, 2, .	11.0	16
50	Integrated microbiome, metabolome, and proteome analysis identifies a novel interplay among commensal bacteria, metabolites and candidate targets in non-small cell lung cancer. <i>Clinical and Translational Medicine</i> , 2022, 12, .	4.0	16
51	Elucidating the cellular uptake mechanism of aptamer-functionalized graphene-isolated-Au-nanocrystals with dual-modal imaging. <i>Analyst</i> , The, 2016, 141, 3337-3342.	3.5	15
52	Zinc-substituted hemoglobin with specific drug binding sites and fatty acid resistance ability for enhanced photodynamic therapy. <i>Nano Research</i> , 2019, 12, 1880-1887.	10.4	15
53	3D halos assembled from Fe ₃ O ₄ /Au NPs with enhanced catalytic and optical properties. <i>Nanoscale</i> , 2019, 11, 20968-20976.	5.6	14
54	Hydrogen-Bonding-Induced H-Aggregation of Charge-Transfer Complexes for Ultra-Efficient Second Near-Infrared Region Photothermal Conversion. <i>CCS Chemistry</i> , 2022, 4, 2333-2343.	7.8	14

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55	Synthesis of amphiphilic graphitic silver nanoparticles with inherent internal standards: an efficient strategy for reliable quantitative SERS analysis in common fluids. <i>Chemical Communications</i> , 2018, 54, 8618-8621.	4.1	13
56	Recent Advances in Multifunctional Graphitic Nanocapsules for Raman Detection, Imaging, and Therapy. <i>Small Methods</i> , 2020, 4, 1900440.	8.6	13
57	Plasmon Coupling in DNA-Assembled Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021, 143, 14573-14580.	13.7	13
58	Graphitic nanocapsules: design, synthesis and bioanalytical applications. <i>Nanoscale</i> , 2017, 9, 10529-10543.	5.6	10
59	Integrated Analyses Identify Immune-Related Signature Associated with Qingyihuaji Formula for Treatment of Pancreatic Ductal Adenocarcinoma Using Network Pharmacology and Weighted Gene Co-Expression Network. <i>Journal of Immunology Research</i> , 2020, 2020, 1-17.	2.2	10
60	Free-Floating 2D Nanosheets with a Superlattice Assembled from Fe ₃ O ₄ Nanoparticles for Peroxidase-Mimicking Activity. <i>ACS Applied Nano Materials</i> , 2018, 1, 5389-5395.	5.0	9
61	Interaction-Transferable Graphene-Isolated Superstable AuCo Nanocrystal-Enabled Direct Cyanide Capture. <i>Analytical Chemistry</i> , 2019, 91, 8762-8766.	6.5	9
62	Precise Deposition of Polydopamine on Cancer Cell Membrane as Artificial Receptor for Targeted Drug Delivery. <i>IScience</i> , 2020, 23, 101750.	4.1	9
63	Versatile graphitic nanozymes for magneto actuated cascade reaction-enhanced treatment of <i>S. mutans</i> biofilms. <i>Nano Research</i> , 2022, 15, 9800-9808.	10.4	9
64	Covalent Amide-Bonded Nanoflakes for High-Fidelity Intracellular Sensing and Targeted Therapy: A Superstable Nanosystem Free of Nonspecific Interferences. <i>Analytical Chemistry</i> , 2021, 93, 7879-7888.	6.5	8
65	Versatile Graphene-Isolated AuAg Nanocrystal for Multiphase Analysis and Multimodal Cellular Raman Imaging. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1491-1497.	4.9	8
66	Fabrication of GO/magnetic graphitic nanocapsule/TiO ₂ assemblies as efficient and recyclable photocatalysts. <i>Science China Chemistry</i> , 2015, 58, 1131-1136.	8.2	7
67	In Situ Gastric pH Imaging with Hydrogel Capsule Isolated Paramagnetic Metallo-albumin Complexes. <i>Analytical Chemistry</i> , 2021, 93, 5939-5946.	6.5	7
68	A Novel Risk Model Based on Autophagy-Related LncRNAs Predicts Prognosis and Indicates Immune Infiltration Landscape of Patients With Cutaneous Melanoma. <i>Frontiers in Genetics</i> , 2022, 13, 885391.	2.3	7
69	Enzyme-mimic activity study of superstable and ultrasmall graphene encapsuled CoRu nanocrystal. <i>APL Materials</i> , 2021, 9, .	5.1	6
70	Charge-Transfer Cocystal via a Persistent Radical Cation Acceptor for Efficient Solar-Thermal Conversion. <i>Angewandte Chemie</i> , 0, , .	2.0	6
71	Applications of Graphitic Nanomaterial's Optical Properties in Biochemical Sensing. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 28-39.	4.9	5
72	Synthesis and Characterization of Small Size Gold-Graphitic Nanocapsules. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 651-656.	4.9	5

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73	Collaborative Penalized Least Squares for Background Correction of Multiple Raman Spectra. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-11.	1.6	3
74	Natural interface-mediated self-assembly of graphene-isolated-nanocrystals for plasmonic arrays construction and personalized information acquisition. Nano Research, 2022, 15, 9327-9333.	10.4	3
75	Application of Multigroup Technology in Non-Small-Cell Lung Cancer with Qi Stagnation and Blood Stasis Syndrome. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-14.	1.2	1
76	Metal Graphitic Nanocapsules for Theranostics in Harsh Conditions. Frontiers in Chemistry, 2022, 10, .	3.6	1