

Ren Cai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

2,585
citations

23
h-index

50
g-index

57
ext. papers

3,079
ext. citations

9.8
avg, IF

4.83
L-index

#	Paper	IF	Citations
54	Plasmon-Enhanced Electrochemiluminescence of PTP-Decorated Eu MOF-Based Pt-Tipped Au Bimetallic Nanorods for the Lincomycin Assay.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	6
53	Highly Stable 3D Supercuboids to 2D ZnSe Nanosheets: Formation for a High-Efficiency Catalysis System.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1855-1862	6.4	1
52	Novel Dual-Signal Electrochemiluminescence Aptasensor Involving the Resonance Energy Transform System for Kanamycin Detection.. <i>Analytical Chemistry</i> , 2022 ,	7.8	3
51	A High-Wet-Strength Biofilm for Readable and Highly Sensitive Humidity Sensors. <i>Nano Letters</i> , 2021 , 21, 9030-9037	11.5	3
50	Aptamer-Pendant DNA Tetrahedron Nanostructure Probe for Ultrasensitive Detection of Tetracycline by Coupling Target-Triggered Rolling Circle Amplification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19695-19700	9.5	20
49	Rapid water-responsive shape memory films for smart resistive bending sensors. <i>Nano Today</i> , 2021 , 38, 101202	17.9	7
48	A Hydrophobic Sisal Cellulose Microcrystal Film for Fire Alarm Sensors. <i>Nano Letters</i> , 2021 , 21, 2104-2110	11.5	13
47	Plasmonic AuPt@CuS Heterostructure with Enhanced Synergistic Efficacy for Radiophotothermal Therapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16113-16127	16.4	15
46	Two-dimensional intermetallic PtBi/Pt core/shell nanoplates overcome tumor hypoxia for enhanced cancer therapy. <i>Nanoscale</i> , 2021 , 13, 14245-14253	7.7	1
45	Tumor microenvironment (TME)-activatable circular aptamer-PEG as an effective hierarchical-targeting molecular medicine for photodynamic therapy. <i>Biomaterials</i> , 2020 , 246, 119971	15.6	29
44	Generalized preparation of Au NP @ Ni(OH) ₂ yolk-shell NPs and their enhanced catalytic activity. <i>Nano Energy</i> , 2020 , 71, 104542	17.1	16
43	Human serum albumin templated MnO nanosheets as an efficient biomimetic oxidase for biomolecule sensing. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 11090-11095	7.3	12
42	On-Site Colorimetric Detection of Cholesterol Based on Polypyrrole Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54426-54432	9.5	26
41	Aptamer-Directed Protein-Specific Multiple Modifications of Membrane Glycoproteins on Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37845-37850	9.5	15
40	Highly Sensitive MicroRNA Detection by Coupling Nicking-Enhanced Rolling Circle Amplification with MoS Quantum Dots. <i>Analytical Chemistry</i> , 2020 , 92, 13588-13594	7.8	50
39	Free-standing 2D nanorrafts by assembly of 1D nanorods for biomolecule sensing. <i>Nanoscale</i> , 2019 , 11, 12169-12176	7.7	28
38	Spherically Directed Synthesis and Enhanced Cellular Internalization of Metal-Crosslinked DNA Micelles. <i>CheM</i> , 2019 , 5, 913-928	16.2	10

37	3D halos assembled from FeO/Au NPs with enhanced catalytic and optical properties. <i>Nanoscale</i> , 2019 , 11, 20968-20976	7.7	10
36	Generalized Preparation of Two-Dimensional Quasi-nanosheets via Self-assembly of Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1725-1734	16.4	22
35	Facile approach to prepare HSA-templated MnO nanosheets as oxidase mimic for colorimetric detection of glutathione. <i>Talanta</i> , 2019 , 195, 40-45	6.2	53
34	Comprehensive Regression Model for Dissociation Equilibria of Cell-Specific Aptamers. <i>Analytical Chemistry</i> , 2018 , 90, 10487-10493	7.8	2
33	Cross-Linked Aptamer-Lipid Micelles for Excellent Stability and Specificity in Target-Cell Recognition. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11589-11593	16.4	24
32	Constructing Smart Protocells with Built-In DNA Computational Core to Eliminate Exogenous Challenge. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6912-6920	16.4	31
31	Cross-Linked Aptamer-Lipid Micelles for Excellent Stability and Specificity in Target-Cell Recognition. <i>Angewandte Chemie</i> , 2018 , 130, 11763-11767	3.6	6
30	Self-Assembled Aptamer-Grafted Hyperbranched Polymer Nanocarrier for Targeted and Photoresponsive Drug Delivery. <i>Angewandte Chemie</i> , 2018 , 130, 17294-17298	3.6	23
29	Self-Assembled Aptamer-Grafted Hyperbranched Polymer Nanocarrier for Targeted and Photoresponsive Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17048-17052	16.4	92
28	Core-Shell HA-AuNPs@SiNPs Nanoprobe for Sensitive Fluorescence Hyaluronidase Detection and Cell Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16555-16562	8.3	22
27	Free-Floating 2D Nanosheets with a Superlattice Assembled from FeO Nanoparticles for Peroxidase-Mimicking Activity. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5389-5395	5.6	7
26	Aptasensor with Expanded Nucleotide Using DNA Nanotetrahedra for Electrochemical Detection of Cancerous Exosomes. <i>ACS Nano</i> , 2017 , 11, 3943-3949	16.7	264
25	Selective Imaging and Inactivation of Bacteria over Mammalian Cells by Imidazolium-Substituted Polythiophene. <i>Chemistry of Materials</i> , 2017 , 29, 6389-6395	9.6	64
24	Fabrication of Ultrathin Zn(OH) Nanosheets as Drug Carriers. <i>Nano Research</i> , 2016 , 9, 2520-2530	10	9
23	Three Dimensional Multipod Superstructure based on Cu(OH) as a Highly Efficient Nanozyme. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4657-4661	7.3	22
22	A Facile Process for the Preparation of Three-Dimensional Hollow Zn(OH) ₂ Nanoflowers at Room Temperature. <i>Chemistry - A European Journal</i> , 2016 , 22, 11143-7	4.8	3
21	DNA micelle flares: a study of the basic properties that contribute to enhanced stability and binding affinity in complex biological systems. <i>Chemical Science</i> , 2016 , 7, 6041-6049	9.4	30
20	Single Nanoparticle to 3D Supercage: Framing for an Artificial Enzyme System. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13957-63	16.4	92

19	Controlled Synthesis of Ultrathin Lanthanide Oxide Nanosheets and Their Promising pH-Controlled Anticancer Drug Delivery. <i>Chemistry - A European Journal</i> , 2015 , 21, 11954-60	4.8	16
18	DNA Aptamer Based Nanodrugs: Molecular Engineering for Efficiency. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2084-94	4.5	31
17	MS2 (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. <i>Advanced Functional Materials</i> , 2014 , 24, 2155-2162	15.6	362
16	Synthesis of porous, hollow metal MCO(3) (M=Mn, Co, Ca) microstructures and adsorption properties thereof. <i>Chemistry - A European Journal</i> , 2014 , 20, 421-5	4.8	22
15	Hollow Spheres: MS2 (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics (Adv. Funct. Mater. 15/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2154-2154	15.6	14
14	Carbon buffered-transition metal oxidenanoparticle-graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6901-6907	13	27
13	In situ growth of NiCo(2)S(4) nanosheets on graphene for high-performance supercapacitors. <i>Chemical Communications</i> , 2013 , 49, 10178-80	5.8	347
12	Solvothermal-induced conversion of one-dimensional multilayer nanotubes to two-dimensional hydrophilic VOx nanosheets: synthesis and water treatment application. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10389-94	9.5	14
11	Synthesis of cobalt phosphides and their application as anodes for lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1093-9	9.5	154
10	Multiwalled carbon nanotubes-VO2O5 integrated composite with nanosized architecture as a cathode material for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15459	13	63
9	Monodispersed Ag nanoparticles loaded on the PVP-assisted synthetic Bi2O2CO3 microspheres with enhanced photocatalytic and supercapacitive performances. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7630	13	93
8	Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 5310	3.7	9
7	Synthesis of porous amorphous FePO4 nanotubes and their lithium storage properties. <i>Chemistry - A European Journal</i> , 2013 , 19, 1568-72	4.8	30
6	Controlled synthesis of double-wall α -FePO4 nanotubes and their LIB cathode properties. <i>Small</i> , 2013 , 9, 1036-41	11	19
5	Radiation induced graft polymerization of a fluorinated acrylate onto fabric. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1354-1356	2.5	20
4	Synthesis of CuxS/Cu Nanotubes and Their Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12468-12474	3.8	82
3	Laundering durability of superhydrophobic cotton fabric. <i>Advanced Materials</i> , 2010 , 22, 5473-7	24	243
2	Multifunctional Shape Memory Films for a Flexible Electrical Sensor. <i>Macromolecular Materials and Engineering</i> , 2100580	3.9	0

- 1 Green synthesis of Au@WSe₂ hybrid nanostructures with the enhanced peroxidase-like activity for sensitive colorimetric detection of glucose. *Nano Research*, 10 7