

Kelong Ai

List of Publications by Year in descending order

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66
papers

14,274
citations

70961

41
h-index

95083

68
g-index

68
all docs

68
docs citations

68
times ranked

19836
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydopamine and Its Derivative Materials: Synthesis and Promising Applications in Energy, Environmental, and Biomedical Fields. <i>Chemical Reviews</i> , 2014, 114, 5057-5115.	23.0	3,865
2	Dopamine-Melanin Colloidal Nanospheres: An Efficient Near-Infrared Photothermal Therapeutic Agent for In Vivo Cancer Therapy. <i>Advanced Materials</i> , 2013, 25, 1353-1359.	11.1	1,688
3	Sp ² -Dominant N-Doped Carbon Sub-micrometer Spheres with a Tunable Size: A Versatile Platform for Highly Efficient Oxygen-Reduction Catalysts. <i>Advanced Materials</i> , 2013, 25, 998-1003.	11.1	798
4	Hydrogen-Bonding Recognition-Induced Color Change of Gold Nanoparticles for Visual Detection of Melamine in Raw Milk and Infant Formula. <i>Journal of the American Chemical Society</i> , 2009, 131, 9496-9497.	6.6	569
5	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5556-5560.	7.2	428
6	Comprehensive Insights into the Multi-Antioxidative Mechanisms of Melanin Nanoparticles and Their Application To Protect Brain from Injury in Ischemic Stroke. <i>Journal of the American Chemical Society</i> , 2017, 139, 856-862.	6.6	404
7	Gold-Nanocluster-Based Fluorescent Sensors for Highly Sensitive and Selective Detection of Cyanide in Water. <i>Advanced Functional Materials</i> , 2010, 20, 951-956.	7.8	390
8	MoS ₂ Nanosheets with Widened Interlayer Spacing for High-Efficiency Removal of Mercury in Aquatic Systems. <i>Advanced Functional Materials</i> , 2016, 26, 5542-5549.	7.8	362
9	Large-Area Silver-Coated Silicon Nanowire Arrays for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2008, 18, 2348-2355.	7.8	354
10	A High-Performance Ytterbium-Based Nanoparticulate Contrast Agent for In Vivo X-ray Computed Tomography Imaging. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1437-1442.	7.2	317
11	Large-Scale Synthesis of Bi ₂ S ₃ Nanodots as a Contrast Agent for In Vivo X-ray Computed Tomography Imaging. <i>Advanced Materials</i> , 2011, 23, 4886-4891.	11.1	308
12	Nanoparticulate X-ray Computed Tomography Contrast Agents: From Design Validation to in Vivo Applications. <i>Accounts of Chemical Research</i> , 2012, 45, 1817-1827.	7.6	297
13	Covalent Entrapment of Cobalt-Iron Sulfides in N-Doped Mesoporous Carbon: Extraordinary Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1207-1218.	4.0	281
14	Dual-Emission Fluorescent Silica Nanoparticle-Based Probe for Ultrasensitive Detection of Cu ²⁺ . <i>Analytical Chemistry</i> , 2011, 83, 3126-3132.	3.2	237
15	Targeted polydopamine nanoparticles enable photoacoustic imaging guided chemo-photothermal synergistic therapy of tumor. <i>Acta Biomaterialia</i> , 2017, 47, 124-134.	4.1	216
16	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. <i>Journal of Materials Chemistry</i> , 2011, 21, 3365-3370.	6.7	208
17	Designing lanthanide-doped nanocrystals with both up- and down-conversion luminescence for anti-counterfeiting. <i>Nanoscale</i> , 2011, 3, 4804.	2.8	206
18	Europium-Based Fluorescence Nanoparticle Sensor for Rapid and Ultrasensitive Detection of an Anthrax Biomarker. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 304-308.	7.2	199

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19	Fluorescence-enhanced gadolinium-doped zinc oxide quantum dots for magnetic resonance and fluorescence imaging. <i>Biomaterials</i> , 2011, 32, 1185-1192.	5.7	198
20	Polydopamine-based coordination nanocomplex for T1/T2 dual mode magnetic resonance imaging-guided chemo-photothermal synergistic therapy. <i>Biomaterials</i> , 2016, 77, 198-206.	5.7	187
21	Controlling the Formation of Rodlike V_2O_5 Nanocrystals on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11462-11470.	4.0	181
22	Multifunctional envelope-type mesoporous silica nanoparticles for pH-responsive drug delivery and magnetic resonance imaging. <i>Biomaterials</i> , 2015, 60, 111-120.	5.7	171
23	Functionalizing Metal Nanostructured Film with Graphene Oxide for Ultrasensitive Detection of Aromatic Molecules by Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2944-2952.	4.0	151
24	Transition metal-nitrogen-carbon nanostructured catalysts for the oxygen reduction reaction: From mechanistic insights to structural optimization. <i>Nano Research</i> , 2017, 10, 1449-1470.	5.8	144
25	Plasmonic titanium nitride nanoparticles for in vivo photoacoustic tomography imaging and photothermal cancer therapy. <i>Biomaterials</i> , 2017, 132, 37-47.	5.7	136
26	Reactive oxygen species-based nanomaterials for the treatment of myocardial ischemia reperfusion injuries. <i>Bioactive Materials</i> , 2022, 7, 47-72.	8.6	136
27	Monitoring catalytic degradation of dye molecules on silver-coated ZnO nanowire arrays by surface-enhanced Raman spectroscopy. <i>Journal of Materials Chemistry</i> , 2009, 19, 5547.	6.7	129
28	MoS ₂ -based nanocomposites for cancer diagnosis and therapy. <i>Bioactive Materials</i> , 2021, 6, 4209-4242.	8.6	129
29	Environmentally Friendly Synthesis of Highly Monodisperse Biocompatible Gold Nanoparticles with Urchin-like Shape. <i>Langmuir</i> , 2008, 24, 1058-1063.	1.6	120
30	Biomass-derived carbon materials for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2014, 4, 30887.	1.7	95
31	Hybrid BaYbF ₅ Nanoparticles: Novel Binary Contrast Agent for High-Resolution in Vivo X-ray Computed Tomography Angiography. <i>Advanced Healthcare Materials</i> , 2012, 1, 461-466.	3.9	87
32	Scalable preparation of sized-controlled Co-N-C electrocatalyst for efficient oxygen reduction reaction. <i>Journal of Power Sources</i> , 2017, 368, 46-56.	4.0	74
33	Rheumatoid arthritis microenvironment insights into treatment effect of nanomaterials. <i>Nano Today</i> , 2022, 42, 101358.	6.2	71
34	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. <i>Angewandte Chemie</i> , 2014, 126, 5662-5666.	1.6	69
35	Inorganic layered ion-exchangers for decontamination of toxic metal ions in aquatic systems. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19593-19606.	5.2	68
36	Flame-retardant porous hexagonal boron nitride for safe and effective radioactive iodine capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16850-16858.	5.2	66

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37	High-performance oxygen reduction electrocatalysts derived from uniform cobalt-adenine assemblies. <i>Nano Energy</i> , 2015, 17, 120-130.	8.2	62
38	Synergistic Tailoring of Electrostatic and Hydrophobic Interactions for Rapid and Specific Recognition of Lysophosphatidic Acid, an Early-Stage Ovarian Cancer Biomarker. <i>Journal of the American Chemical Society</i> , 2017, 139, 11616-11621.	6.6	58
39	Nanotherapies for sepsis by regulating inflammatory signals and reactive oxygen and nitrogen species: New insight for treating COVID-19. <i>Redox Biology</i> , 2021, 45, 102046.	3.9	52
40	GdIII functionalized gold nanorods for multimodal imaging applications. <i>Nanoscale</i> , 2011, 3, 1990.	2.8	45
41	Nanoparticulate X-ray CT contrast agents. <i>Science China Chemistry</i> , 2015, 58, 753-760.	4.2	43
42	Hydrogen bond-mediated strong adsorbent- I^{-} interactions enable high-efficiency radioiodine capture. <i>Materials Horizons</i> , 2019, 6, 1517-1525.	6.4	43
43	ROS-Scavenging Nanomaterials to Treat Periodontitis. <i>Frontiers in Chemistry</i> , 2020, 8, 595530.	1.8	43
44	Recent advances in ytterbium-based contrast agents for <i>in vivo</i> X-ray computed tomography imaging: promises and prospects. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 26-36.	0.4	42
45	Fluorescence visual gel-separation of dansylated BSA-protected gold-nanoclusters. <i>Chemical Communications</i> , 2011, 47, 9852.	2.2	40
46	Tailor-Made Charge-Conversional Nanocomposite for pH-Responsive Drug Delivery and Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 655-663.	4.0	40
47	State of the art advancements in sonodynamic therapy (SDT): Metal-Organic frameworks for SDT. <i>Chemical Engineering Journal</i> , 2022, 449, 137889.	6.6	40
48	Localized surface plasmon resonance properties and biomedical applications of copper selenide nanomaterials. <i>Materials Today Chemistry</i> , 2021, 20, 100402.	1.7	37
49	Targeted Imaging of Damaged Bone <i>in Vivo</i> with Gemstone Spectral Computed Tomography. <i>ACS Nano</i> , 2016, 10, 4164-4172.	7.3	35
50	Coating didodecyldimethylammonium bromide onto Au nanoparticles increases the stability of its complex with DNA. <i>Journal of Controlled Release</i> , 2008, 129, 128-134.	4.8	32
51	Harnessing reactive oxygen/nitrogen species and inflammation: Nanodrugs for liver injury. <i>Materials Today Bio</i> , 2022, 13, 100215.	2.6	29
52	Transformation from FeS/Fe ₃ C nanoparticles encased S, N dual doped carbon nanotubes to nanosheets for enhanced oxygen reduction performance. <i>Carbon</i> , 2017, 123, 135-144.	5.4	26
53	Emerging early diagnostic methods for acute kidney injury. <i>Theranostics</i> , 2022, 12, 2963-2986.	4.6	26
54	Engineering Natural Materials as Surface-Enhanced Raman Spectroscopy Substrates for In situ Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6599-6608.	4.0	25

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55	A Versatile and Scalable Approach toward Robust Superhydrophobic Porous Materials with Excellent Absorbency and Flame Retardancy. <i>Scientific Reports</i> , 2016, 6, 31233.	1.6	23
56	Nanomaterial-based biosensor developing as a route toward in vitro diagnosis of early ovarian cancer. <i>Materials Today Bio</i> , 2022, 13, 100218.	2.6	23
57	Highly Sensitive Polydiacetylene Ensembles for Biosensing and Bioimaging. <i>Frontiers in Chemistry</i> , 2020, 8, 565782.	1.8	19
58	Untrasmall Bi ₂ S ₃ nanodots for in vivo X-ray CT imaging-guided photothermal therapy of cancer. <i>RSC Advances</i> , 2017, 7, 29672-29678.	1.7	17
59	Emerging Bismuth Chalcogenides Based Nanodrugs for Cancer Radiotherapy. <i>Frontiers in Pharmacology</i> , 2022, 13, 844037.	1.6	15
60	Point-and-Shoot Strategy for Identification of Alcoholic Beverages. <i>Analytical Chemistry</i> , 2018, 90, 9838-9844.	3.2	14
61	Toward Urease-free wearable artificial kidney: Widened interlayer spacing MoS ₂ nanosheets with highly effective adsorption for uremic toxins. <i>Chemical Engineering Journal</i> , 2022, 438, 135583.	6.6	11
62	Dual-protective nano-sunscreen enables high-efficient elimination of the self-derived hazards. <i>Applied Materials Today</i> , 2020, 18, 100493.	2.3	8
63	sp ² C-Dominant O-Doped Hierarchical Porous Carbon for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 7009-7018.	2.5	5
64	Progress in Detection of Biomarker of Ovarian Cancer: Lysophosphatidic Acid. <i>Chinese Journal of Analytical Chemistry</i> , 2020, 48, 1597-1606.	0.9	4
65	Hierarchically porous polymers with ultra-high affinity for bisphenol A enables high efficient water purification. <i>Science China Chemistry</i> , 2021, 64, 1389-1400.	4.2	3
66	Robust Synthesis of High-Performance Graphite Hollow Nanocatalysts Based on the Ostwald Ripening Mechanism for Oxygen Reduction Reaction Electrocatalysis. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800266.	1.2	2