Kelong Ai

List of Publications by Year
in descending order

66 papers	14,274 citations	71102 41 h-index	95266 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. Chemical Reviews, 2014, 114, 5057-5115.	47.7	3,865
2	Dopamineâ€Melanin Colloidal Nanospheres: An Efficient Nearâ€Infrared Photothermal Therapeutic Agent for In Vivo Cancer Therapy. Advanced Materials, 2013, 25, 1353-1359.	21.0	1,688
3	Sp² Câ€Dominant Nâ€Doped Carbon Subâ€micrometer Spheres with a Tunable Size: A Versatile Platform for Highly Efficient Oxygenâ€Reduction Catalysts. Advanced Materials, 2013, 25, 998-1003.	21.0	798
4	Hydrogen-Bonding Recognition-Induced Color Change of Gold Nanoparticles for Visual Detection of Melamine in Raw Milk and Infant Formula. Journal of the American Chemical Society, 2009, 131, 9496-9497.	13.7	569
5	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. Angewandte Chemie - International Edition, 2014, 53, 5556-5560.	13.8	428
6	Comprehensive Insights into the Multi-Antioxidative Mechanisms of Melanin Nanoparticles and Their Application To Protect Brain from Injury in Ischemic Stroke. Journal of the American Chemical Society, 2017, 139, 856-862.	13.7	404
7	Goldâ€Nanoclusterâ€Based Fluorescent Sensors for Highly Sensitive and Selective Detection of Cyanide in Water. Advanced Functional Materials, 2010, 20, 951-956.	14.9	390
8	MoS₂ Nanosheets with Widened Interlayer Spacing for Highâ€Efficiency Removal of Mercury in Aquatic Systems. Advanced Functional Materials, 2016, 26, 5542-5549.	14.9	362
9	Largeâ€Area Silverâ€Coated Silicon Nanowire Arrays for Molecular Sensing Using Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2008, 18, 2348-2355.	14.9	354
10	A Highâ€Performance Ytterbiumâ€Based Nanoparticulate Contrast Agent for Inâ€…Vivo Xâ€Ray Computed Tomography Imaging. Angewandte Chemie - International Edition, 2012, 51, 1437-1442.	13.8	317
11	Largeâ€Scale Synthesis of Bi₂S₃ Nanodots as a Contrast Agent for In Vivo Xâ€ray Computed Tomography Imaging. Advanced Materials, 2011, 23, 4886-4891.	21.0	308
12	Nanoparticulate X-ray Computed Tomography Contrast Agents: From Design Validation to in Vivo Applications. Accounts of Chemical Research, 2012, 45, 1817-1827.	15.6	297
13	Covalent Entrapment of Cobaltâ€“Iron Sulfides in N-Doped Mesoporous Carbon: Extraordinary Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2015, 7, 1207-1218.	8.0	281
14	Dual-Emission Fluorescent Silica Nanoparticle-Based Probe for Ultrasensitive Detection of Cu²⁺. Analytical Chemistry, 2011, 83, 3126-3132.	6.5	237
15	Targeted polydopamine nanoparticles enable photoacoustic imaging guided chemo-photothermal synergistic therapy of tumor. Acta Biomaterialia, 2017, 47, 124-134.	8.3	216
16	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. Journal of Materials Chemistry, 2011, 21, 3365-3370.	6.7	208
17	Designing lanthanide-doped nanocrystals with both up- and down-conversion luminescence for anti-counterfeiting. Nanoscale, 2011, 3, 4804.	5.6	206
18	Europiumâ€Based Fluorescence Nanoparticle Sensor for Rapid and Ultrasensitive Detection of an Anthrax Biomarker. Angewandte Chemie - International Edition, 2009, 48, 304-308.	13.8	199

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19	Fluorescence-enhanced gadolinium-doped zinc oxide quantum dots for magnetic resonance and fluorescence imaging. Biomaterials, 2011, 32, 1185-1192.	11.4	198
20	Polydopamine-based coordination nanocomplex for T1/T2 dual mode magnetic resonance imaging-guided chemo-photothermal synergistic therapy. Biomaterials, 2016, 77, 198-206.	11.4	187
21	Controlling the Formation of Rodlike V₂O₅ Nanocrystals on Reduced Graphene Oxide for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 11462-11470.	8.0	181
22	Multifunctional envelope-type mesoporous silica nanoparticles for pH-responsive drug delivery and magnetic resonance imaging. Biomaterials, 2015, 60, 111-120.	11.4	171
23	Functionalizing Metal Nanostructured Film with Graphene Oxide for Ultrasensitive Detection of Aromatic Molecules by Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2011, 3, 2944-2952.	8.0	151
24	Transition metalâ€“nitrogenâ€“carbon nanostructured catalysts for the oxygen reduction reaction: From mechanistic insights to structural optimization. Nano Research, 2017, 10, 1449-1470.	10.4	144
25	Plasmonic titanium nitride nanoparticles for inÂvivo photoacoustic tomography imaging and photothermal cancer therapy. Biomaterials, 2017, 132, 37-47.	11.4	136
26	Reactive oxygen species-based nanomaterials for the treatment of myocardial ischemia reperfusion injuries. Bioactive Materials, 2022, 7, 47-72.	15.6	136
27	Monitoring catalytic degradation of dye molecules on silver-coated ZnO nanowire arrays by surface-enhanced Raman spectroscopy. Journal of Materials Chemistry, 2009, 19, 5547.	6.7	129
28	MoS2-based nanocomposites for cancer diagnosis and therapy. Bioactive Materials, 2021, 6, 4209-4242.	15.6	129
29	Environmentally Friendly Synthesis of Highly Monodisperse Biocompatible Gold Nanoparticles with Urchin-like Shape. Langmuir, 2008, 24, 1058-1063.	3.5	120
30	Biomass-derived carbon materials for high-performance supercapacitor electrodes. RSC Advances, 2014, 4, 30887.	3.6	95
31	Hybrid BaYbF₅ Nanoparticles: Novel Binary Contrast Agent for HighâEResolution in Vivo Xâ€ray Computed Tomography Angiography. Advanced Healthcare Materials, 2012, 1, 461-466.	7.6	87
32	Scalable preparation of sized-controlled Co-N-C electrocatalyst for efficient oxygen reduction reaction. Journal of Power Sources, 2017, 368, 46-56.	7.8	74
33	Rheumatoid arthritis microenvironment insights into treatment effect of nanomaterials. Nano Today, 2022, 42, 101358.	11.9	71
34	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. Angewandte Chemie, 2014, 126, 5662-5666.	2.0	69
35	Inorganic layered ion-exchangers for decontamination of toxic metal ions in aquatic systems. Journal of Materials Chemistry A, 2017, 5, 19593-19606.	10.3	68
36	Flame-retardant porous hexagonal boron nitride for safe and effective radioactive iodine capture. Journal of Materials Chemistry A, 2019, 7, 16850-16858.	10.3	66

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37	High-performance oxygen reduction electrocatalysts derived from uniform cobaltâ€“adenine assemblies. Nano Energy, 2015, 17, 120-130.	16.0	62
38	Synergistic Tailoring of Electrostatic and Hydrophobic Interactions for Rapid and Specific Recognition of Lysophosphatidic Acid, an Early-Stage Ovarian Cancer Biomarker. Journal of the American Chemical Society, 2017, 139, 11616-11621.	13.7	58
39	Nanotherapies for sepsis by regulating inflammatory signals and reactive oxygen and nitrogen species: New insight for treating COVID-19. Redox Biology, 2021, 45, 102046.	9.0	52
40	GdIII functionalized gold nanorods for multimodal imaging applications. Nanoscale, 2011, 3, 1990.	5.6	45
41	Nanoparticulate X-ray CT contrast agents. Science China Chemistry, 2015, 58, 753-760.	8.2	43
42	Hydrogen bond-mediated strong adsorbentâ€“I₃^{â^’} interactions enable high-efficiency radioiodine capture. Materials Horizons, 2019, 6, 1517-1525.	12.2	43
43	ROS-Scavenging Nanomaterials to Treat Periodontitis. Frontiers in Chemistry, 2020, 8, 595530.	3.6	43
44	Recent advances in ytterbiumâ€based contrast agents for in vivo Xâ€ray computed tomography imaging: promises and prospects. Contrast Media and Molecular Imaging, 2014, 9, 26-36.	0.8	42
45	Fluorescence visual gel-separation of dansylated BSA-protected gold-nanoclusters. Chemical Communications, 2011, 47, 9852.	4.1	40
46	Tailor-Made Charge-Conversional Nanocomposite for pH-Responsive Drug Delivery and Cell Imaging. ACS Applied Materials & Interfaces, 2014, 6, 655-663.	8.0	40
47	State of the art advancements in sonodynamic therapy (SDT): Metal-Organic frameworks for SDT. Chemical Engineering Journal, 2022, 449, 137889.	12.7	40
48	Localized surface plasmon resonance properties and biomedical applications of copper selenide nanomaterials. Materials Today Chemistry, 2021, 20, 100402.	3.5	37
49	Targeted Imaging of Damaged Bone in Vivo with Gemstone Spectral Computed Tomography. ACS Nano, 2016, 10, 4164-4172.	14.6	35
50	Coating didodecyldimethylammonium bromide onto Au nanoparticles increases the stability of its complex with DNA. Journal of Controlled Release, 2008, 129, 128-134.	9.9	32
51	Harnessing reactive oxygen/nitrogen species and inflammation: Nanodrugs for liver injury. Materials Today Bio, 2022, 13, 100215.	5.5	29
52	Transformation from FeS/Fe3C nanoparticles encased S, N dual doped carbon nanotubes to nanosheets for enhanced oxygen reduction performance. Carbon, 2017, 123, 135-144.	10.3	26
53	Emerging early diagnostic methods for acute kidney injury. Theranostics, 2022, 12, 2963-2986.	10.0	26
54	Engineering Natural Materials as Surface-Enhanced Raman Spectroscopy Substrates for In situ Molecular Sensing. ACS Applied Materials & Interfaces, 2012, 4, 6599-6608.	8.0	25

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55	A Versatile and Scalable Approach toward Robust Superhydrophobic Porous Materials with Excellent Absorbency and Flame Retardancy. Scientific Reports, 2016, 6, 31233.	3.3	23
56	Nanomaterial-based biosensor developing as a route toward in vitro diagnosis of early ovarian cancer. Materials Today Bio, 2022, 13, 100218.	5.5	23
57	Highly Sensitive Polydiacetylene Ensembles for Biosensing and Bioimaging. Frontiers in Chemistry, 2020, 8, 565782.	3.6	19
58	Untrasmall Bi₂S₃ nanodots for in vivo X-ray CT imaging-guided photothermal therapy of cancer. RSC Advances, 2017, 7, 29672-29678.	3.6	17
59	Emerging Bismuth Chalcogenides Based Nanodrugs for Cancer Radiotherapy. Frontiers in Pharmacology, 2022, 13, 844037.	3.5	15
60	Point-and-Shoot Strategy for Identification of Alcoholic Beverages. Analytical Chemistry, 2018, 90, 9838-9844.	6.5	14
61	Toward Urease-free wearable artificial kidney: Widened interlayer spacing MoS2 nanosheets with highly effective adsorption for uremic toxins. Chemical Engineering Journal, 2022, 438, 135583.	12.7	11
62	Dual-protective nano-sunscreen enables high-efficient elimination of the self-derived hazards. Applied Materials Today, 2020, 18, 100493.	4.3	8
63	sp² C-Dominant O-Doped Hierarchical Porous Carbon for Supercapacitor Electrodes. ACS Applied Energy Materials, 2019, 2, 7009-7018.	5.1	5
64	Progress in Detection of Biomarker of Ovarian Cancer: Lysophosphatidic Acid. Chinese Journal of Analytical Chemistry, 2020, 48, 1597-1606.	1.7	4
65	Hierarchically porous polymers with ultra-high affinity for bisphenol A enables high efficient water purification. Science China Chemistry, 2021, 64, 1389-1400.	8.2	3
66	Robust Synthesis of Highâ€Performance Nâ€Graphite Hollow Nanocatalysts Based on the Ostwald Ripening Mechanism for Oxygen Reduction Reaction Electrocatalysis. Particle and Particle Systems Characterization, 2018, 35, 1800266.	2.3	2