

Jiechao Ge

List of Publications by Year in descending order

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99
papers

8,955
citations

57758

44
h-index

39675

94
g-index

100
all docs

100
docs citations

100
times ranked

12464
citing authors

#	ARTICLE	IF	CITATIONS
1	New sensing mechanisms for design of fluorescent chemosensors emerging in recent years. <i>Chemical Society Reviews</i> , 2011, 40, 3483.	38.1	1,601
2	A graphene quantum dot photodynamic therapy agent with high singlet oxygen generation. <i>Nature Communications</i> , 2014, 5, 4596.	12.8	1,141
3	Red-emissive Carbon Dots for Fluorescent, Photoacoustic, and Thermal Theranostics in Living Mice. <i>Advanced Materials</i> , 2015, 27, 4169-4177.	21.0	758
4	A Magnetofluorescent Carbon Dot Assembly as an Acidic H ₂ O ₂ -Driven Oxygenator to Regulate Tumor Hypoxia for Simultaneous Bimodal Imaging and Enhanced Photodynamic Therapy. <i>Advanced Materials</i> , 2018, 30, e1706090.	21.0	385
5	Multi-enzyme co-embedded organic-inorganic hybrid nanoflowers: synthesis and application as a colorimetric sensor. <i>Nanoscale</i> , 2014, 6, 255-262.	5.6	296
6	Carbon Dots with Intrinsic Theranostic Properties for Bioimaging, Red-Light-Triggered Photodynamic/Photothermal Simultaneous Therapy In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 665-675.	7.6	246
7	Facile Route to \pm -FeOOH and \pm -Fe ₂ O ₃ Nanorods and Magnetic Property of \pm -Fe ₂ O ₃ Nanorods. <i>Inorganic Chemistry</i> , 2006, 45, 5196-5200.	4.0	239
8	Tunable multicolor carbon dots prepared from well-defined polythiophene derivatives and their emission mechanism. <i>Nanoscale</i> , 2016, 8, 729-734.	5.6	176
9	A novel glucose colorimetric sensor based on intrinsic peroxidase-like activity of C ₆₀ -carboxyfullerenes. <i>Biosensors and Bioelectronics</i> , 2013, 47, 502-507.	10.1	157
10	Solvothermal Synthesis of CoO, Co ₃ O ₄ , Ni(OH) ₂ and Mg(OH) ₂ Nanotubes. <i>Crystal Growth and Design</i> , 2009, 9, 1-6.	3.0	126
11	Gold nanorod@silica-carbon dots as multifunctional phototheranostics for fluorescence and photoacoustic imaging-guided synergistic photodynamic/photothermal therapy. <i>Nanoscale</i> , 2016, 8, 13067-13077.	5.6	126
12	Copolythiophene-Derived Colorimetric and Fluorometric Sensor for Visually Supersensitive Determination of Lipopolysaccharide. <i>Journal of the American Chemical Society</i> , 2012, 134, 6685-6694.	13.7	115
13	A fluorescent probe for the efficient discrimination of Cys, Hcy and GSH based on different cascade reactions. <i>Biosensors and Bioelectronics</i> , 2017, 90, 117-124.	10.1	110
14	Synthesis of carbon dots from <i>Hypocrella bambusae</i> for bimodal fluorescence/photoacoustic imaging-guided synergistic photodynamic/photothermal therapy of cancer. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 302-311.	9.4	105
15	Gd ₂ @C ₇₉ N: Isolation, Characterization, and Monoadduct Formation of a Very Stable Heterofullerene with a Magnetic Spin State of $\langle S \rangle = 15/2$. <i>Journal of the American Chemical Society</i> , 2011, 133, 9741-9750.	13.7	104
16	Sol-solvothermal synthesis and microwave evolution of La(OH) ₃ nanorods to La ₂ O ₃ nanorods. <i>Nanotechnology</i> , 2004, 15, 1273-1276.	2.6	102
17	Encapsulation of a Radiolabeled Cluster Inside a Fullerene Cage, ¹⁷⁷ Lu _x Lu _(3x-1) N@C ₈₀ : An Interleukin-13-Conjugated Radiolabeled Metallofullerene Platform. <i>Journal of the American Chemical Society</i> , 2010, 132, 4980-4981.	13.7	102
18	Recent advances and prospects of carbon dots in cancer nanotheranostics. <i>Materials Chemistry Frontiers</i> , 2020, 4, 449-471.	5.9	101

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19	The enhanced photothermal effect of graphene/conjugated polymer composites: photoinduced energy transfer and applications in photocontrolled switches. <i>Chemical Communications</i> , 2014, 50, 14345-14348.	4.1	93
20	Nanoscale Fullerene Compression of an Yttrium Carbide Cluster. <i>Journal of the American Chemical Society</i> , 2012, 134, 8487-8493.	13.7	92
21	Highly luminescent water-soluble CdTe nanowires as fluorescent probe to detect copper(ii). <i>Chemical Communications</i> , 2005, , 4184.	4.1	87
22	A surfactant-free route to single-crystalline CeO ₂ nanowires. <i>Chemical Communications</i> , 2005, , 3565.	4.1	86
23	Multifunctional upconversion "nanoparticles" tris(4-pyridyl)porphyrin fullerene nanocomposite: a near-infrared light-triggered theranostic platform for imaging-guided photodynamic therapy. <i>NPG Asia Materials</i> , 2015, 7, e205-e205.	7.9	84
24	Conjugation of functionalized gadolinium metallofullerenes with IL-13 peptides for targeting and imaging glial tumors. <i>Nanomedicine</i> , 2011, 6, 449-458.	3.3	83
25	89Y and 13C NMR Cluster and Carbon Cage Studies of an Yttrium Metallofullerene Family, Y ₃ N@C _{2n} (n) Tj ETQq1 1,0,784314 rgBT / 13.7 81	13.7	81
26	A recyclable carbon nanoparticle-based fluorescent probe for highly selective and sensitive detection of mercapto biomolecules. <i>Journal of Materials Chemistry B</i> , 2015, 3, 127-134.	5.8	79
27	Hydrothermal Synthesis of Ultralong and Single-Crystalline Cd(OH) ₂ Nanowires Using Alkali Salts as Mineralizers. <i>Inorganic Chemistry</i> , 2005, 44, 2568-2569.	4.0	70
28	Fullerene/photosensitizer nanovesicles as highly efficient and clearable phototheranostics with enhanced tumor accumulation for cancer therapy. <i>Biomaterials</i> , 2016, 103, 75-85.	11.4	68
29	A rapid hydrothermal route to sisal-like 3D ZnO nanostructures via the assembly of CTA+ and Zn(OH) ₂ : growth mechanism and photoluminescence properties. <i>Nanotechnology</i> , 2006, 17, 1316-1322.	2.6	66
30	One-Dimensional Hierarchical Layered K _x MnO ₂ (x < 0.3) Nanoarchitectures: Synthesis, Characterization, and Their Magnetic Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17854-17859.	2.6	59
31	Biocompatible Iron Phthalocyanine-Albumin Assemblies as Photoacoustic and Thermal Theranostics in Living Mice. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21124-21132.	8.0	59
32	Coumarin-Based Boron Complexes with Aggregation-Induced Emission. <i>Journal of Organic Chemistry</i> , 2017, 82, 3456-3462.	3.2	58
33	A Facile and Controllable Synthesis of γ -Al ₂ O ₃ Nanostructures without a Surfactant. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4366-4369.	2.0	56
34	Synthesis and Characterization of Wavelength-Tunable, Water-Soluble, and Near-Infrared-Emitting CdHgTe Nanorods. <i>Chemistry of Materials</i> , 2007, 19, 1212-1214.	6.7	56
35	In Vitro and in Vivo Studies of Single-Walled Carbon Nanohorns with Encapsulated Metallofullerenes and Exohedrally Functionalized Quantum Dots. <i>Nano Letters</i> , 2010, 10, 2843-2848.	9.1	56
36	Biodegradable Natural Product-Based Nanoparticles for Near-Infrared Fluorescence Imaging-Guided Sonodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18178-18185.	8.0	55

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37	A facile assay for direct colorimetric visualization of lipopolysaccharides at low nanomolar level. <i>Nano Research</i> , 2012, 5, 486-493.	10.4	54
38	Biodegradable hypocrellin derivative nanovesicle as a near-infrared light-driven theranostic for dually photoactive cancer imaging and therapy. <i>Biomaterials</i> , 2018, 185, 133-141.	11.4	54
39	The fabrication of La(OH) ₃ nanospheres by a controllable-hydrothermal method with citric acid as a protective agent. <i>Nanotechnology</i> , 2004, 15, 1749-1751.	2.6	53
40	Single Near-Infrared Emissive Polymer Nanoparticles as Versatile Phototheranostics. <i>Advanced Science</i> , 2017, 4, 1700085.	11.2	53
41	A novel fluorogenic hybrid material for selective sensing of thiophenols. <i>Journal of Materials Chemistry</i> , 2011, 21, 13561.	6.7	51
42	Template-Free Preparation of Volvox-like Cd _{1-x} Zn _x S Nanospheres with Cubic Phase for Efficient Photocatalytic Hydrogen Production. <i>Chemistry - an Asian Journal</i> , 2014, 9, 811-818.	3.3	47
43	Pheophytin Derived Near-Infrared-Light Responsive Carbon Dot Assembly as a New Phototheranostic Agent for Bioimaging and Photodynamic Therapy. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2162-2168.	3.3	47
44	Formation of Nitrogen-Doped Mesoporous Graphitic Carbon with the Help of Melamine. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20574-20578.	8.0	45
45	Deep-Red Emissive Crescent-Shaped Fluorescent Dyes: Substituent Effect on Live Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7421-7427.	8.0	44
46	Graphene quantum dots as efficient, metal-free, visible -light-active photocatalysts. <i>Science China Materials</i> , 2016, 59, 12-19.	6.3	44
47	PEGylated carbon dot/MnO ₂ nanohybrid: a new pH/H ₂ O ₂ -driven, turn-on cancer nanotheranostics. <i>Science China Materials</i> , 2018, 61, 1325-1338.	6.3	44
48	Deep-Red and Near-Infrared Xanthene Dyes for Rapid Live Cell Imaging. <i>Journal of Organic Chemistry</i> , 2016, 81, 7393-7399.	3.2	43
49	Novel dandelion-like beta-manganese dioxide microstructures and their magnetic properties. <i>Nanotechnology</i> , 2006, 17, 947-951.	2.6	41
50	Self-Assembled Carbon Dot Nanosphere: A Robust, Near-Infrared Light-Responsive, and Vein Injectable Photosensitizer. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601419.	7.6	41
51	Facile and Selected-Control Synthesis of ¹²⁵ I-MnO ₂ Nanorods and Their Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2313-2317.	2.0	40
52	Aminobenzofuran-Fused Rhodamine Dyes with Deep-Red to Near-Infrared Emission for Biological Applications. <i>Journal of Organic Chemistry</i> , 2015, 80, 3170-3175.	3.2	40
53	Polymer Dots as Effective Phototheranostic Agents. <i>Photochemistry and Photobiology</i> , 2018, 94, 916-934.	2.5	40
54	Copolythiophene-Derived Colorimetric and Fluorometric Sensor for Lysophosphatidic Acid Based on Multipoint Interactions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2283-2288.	8.0	39

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55	A colorimetric and ratiometric fluorescent probe for highly selective detection of glutathione in the mitochondria of living cells. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 459-465.	7.8	39
56	Near-infrared fluorescent carbon dots encapsulated liposomes as multifunctional nano-carrier and tracer of the anticancer agent cinobufagin in vivo and in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 384-392.	5.0	39
57	Polymer nanoparticles with high photothermal conversion efficiency as robust photoacoustic and thermal theranostics. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2832-2839.	5.8	37
58	Photo-triggered gadofullerene: enhanced cancer therapy by combining tumor vascular disruption and stimulation of anti-tumor immune responses. <i>Biomaterials</i> , 2019, 213, 119218.	11.4	37
59	Versatile Polymer Nanoparticles as Two-Photon-Triggered Photosensitizers for Simultaneous Cellular, Deep-Tissue Imaging, and Photodynamic Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601431.	7.6	35
60	Keto-benzo[<i>h</i>]coumarin-Based Near-Infrared Dyes with Large Stokes Shifts for Bioimaging Applications. <i>Chemistry - an Asian Journal</i> , 2016, 11, 498-504.	3.3	34
61	Iron phthalocyanine-derived nanozyme as dual reactive oxygen species generation accelerator for photothermally enhanced tumor catalytic therapy. <i>Biomaterials</i> , 2022, 284, 121495.	11.4	34
62	Coumarin/fluorescein-fused fluorescent dyes for rapidly monitoring mitochondrial pH changes in living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 590-597.	3.9	31
63	Highly sensitive and selective colorimetric visualization of streptomycin in raw milk using Au nanoparticles supramolecular assembly. <i>Chemical Communications</i> , 2011, 47, 9888.	4.1	30
64	5,10,15,20-Tetrakis(4-carboxyl phenyl)porphyrin-CdS nanocomposites with intrinsic peroxidase-like activity for glucose colorimetric detection. <i>Materials Science and Engineering C</i> , 2014, 42, 177-184.	7.3	29
65	Amphiphilic trimethylpyridylporphyrin-fullerene (C70) dyad: an efficient photosensitizer under hypoxia conditions. <i>Journal of Materials Chemistry B</i> , 2015, 3, 776-783.	5.8	29
66	Ultrasensitive and selective gold film-based detection of mercury (II) in tap water using a laser scanning confocal imaging-surface plasmon resonance system in real time. <i>Biosensors and Bioelectronics</i> , 2013, 47, 391-395.	10.1	27
67	A Versatile and Clearable Nanocarbon Theranostic Based on Carbon Dots and Gadolinium Metallofullerene Nanocrystals. <i>Advanced Healthcare Materials</i> , 2016, 5, 2283-2294.	7.6	26
68	Investigation of Gd ₃ N@C ₂ N ₄ family by Raman and inelastic electron tunneling spectroscopy. <i>Physical Review B</i> , 2010, 81, .	3.2	25
69	G-quadruplex DNAzymes-induced highly selective and sensitive colorimetric sensing of free heme in rat brain. <i>Analyst</i> , 2014, 139, 1993-1999.	3.5	24
70	In situ growth of gold nanoparticles on hydrogen-bond supramolecular structures with high peroxidase-like activity at neutral pH and their application to one-pot blood glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 656-664.	7.8	24
71	Single-Atom Gadolinium Anchored on Graphene Quantum Dots as a Magnetic Resonance Signal Amplifier. <i>ACS Applied Bio Materials</i> , 2021, 4, 2798-2809.	4.6	24
72	A Facile High-speed Vibration Milling Method to Water-disperse Single-walled Carbon Nanohorns. <i>Chemistry of Materials</i> , 2010, 22, 347-351.	6.7	22

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73	Dual-Emission Channels for Simultaneous Sensing of Cysteine and Homocysteine in Living Cells. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2098-2103.	3.3	21
74	Photoluminescence Enhancement of Carbon Dots by Surfactants at Room Temperature. <i>Chemistry - A European Journal</i> , 2018, 24, 15806-15811.	3.3	19
75	Preparation of Highly Stable and Water-Dispersible Silicon Quantum Dots by Using an Organic Peroxide. <i>Chemistry - A European Journal</i> , 2011, 17, 12872-12876.	3.3	18
76	A selective fluorescent and colorimetric dual-responses chemosensor for streptomycin based on polythiophene derivative. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 871-874.	3.9	18
77	A polythiophene-derived ratiometric fluorescent sensor for highly sensitive determination of carbenicillin in aqueous solution. <i>Chemical Communications</i> , 2012, 48, 6818.	4.1	16
78	Nonvolatile memory devices based on carbon nano-dot doped poly(vinyl alcohol) composites with low operation voltage and high ON/OFF ratio. <i>RSC Advances</i> , 2015, 5, 26886-26890.	3.6	16
79	Innovative strategies of hydrogen peroxide-involving tumor therapeutics. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4474-4501.	5.9	16
80	Deep-red to near-infrared fluorescent dyes: Synthesis, photophysical properties, and application in cell imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 164, 8-14.	3.9	15
81	Red emissive fluorescent probe for the rapid detection of selenocysteine. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 234-239.	7.8	15
82	High sensitivity gram-negative bacteria biosensor based on a small-molecule modified surface plasmon resonance chip studied using a laser scanning confocal imaging-surface plasmon resonance system. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 492-497.	7.8	15
83	A facile high-speed vibration milling method to mass production of water-dispersible silicon quantum dots for long-term cell imaging. <i>RSC Advances</i> , 2015, 5, 35291-35296.	3.6	14
84	Surface-enhanced Raman scattering substrate based on cysteamine-modified gold nanoparticle aggregation for highly sensitive pentachlorophenol detection. <i>RSC Advances</i> , 2016, 6, 85285-85292.	3.6	13
85	Organic Dye Nanoparticles with a Special D _{2h} Structure for Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 5722-5729.	4.6	12
86	Near-Infrared Hypocrellin Derivatives for Synergistic Photodynamic and Photothermal Therapy. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3462-3468.	3.3	12
87	Red Emissive Carbon Dots Prepared from Polymers as an Efficient Nanocarrier for Coptisine Delivery in <i>in vivo</i> and <i>in vitro</i> . <i>ChemMedChem</i> , 2021, 16, 646-653.	3.2	12
88	Carbon Dot Assemblies for Enhanced Cellular Uptake and Photothermal Therapy In Vitro. <i>ChemistrySelect</i> , 2017, 2, 10860-10864.	1.5	11
89	Ethylene glycol-mediated synthetic route for production of luminescent silicon nanorod as photodynamic therapy agent. <i>Science China Materials</i> , 2017, 60, 881-891.	6.3	10
90	Singlet Oxygen Kinetics in Polymeric Photosensitizers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12071-12076.	3.1	10

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91	New detection method for nucleoside triphosphates based on carbon dots: The distance-dependent singlet oxygen trapping. <i>Analytica Chimica Acta</i> , 2018, 1031, 145-151.	5.4	10
92	Hypocrellin Derivative-Loaded Calcium Phosphate Nanorods as NIR Light-Triggered Phototheranostic Agents with Enhanced Tumor Accumulation for Cancer Therapy. <i>ChemMedChem</i> , 2020, 15, 177-181.	3.2	10
93	Fabrication of self-assembled iron oxide hierarchical nanostructures and their application in water treatment. <i>Solid State Sciences</i> , 2011, 13, 1554-1559.	3.2	9
94	Highly Water-soluble [60]Fullerene-ethylenediamino- β -cyclodextrin Inclusion Complex: The Synthesis and Self-assembly with Poly (Acrylic Acid). <i>Supramolecular Chemistry</i> , 2008, 20, 295-299.	1.2	6
95	Hierarchically Nanoporous Ceria Nanoparticles with a High-Surface Area: Synthesis, Characterization, and Their Catalytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 125-130.	0.9	3
96	Investigation of biological cell-small molecule interactions with a gold surface plasmon resonance sensor using a laser scanning confocal imaging-surface plasmon resonance system. <i>RSC Advances</i> , 2016, 6, 65930-65935.	3.6	3
97	Cancer Therapy: A Magnetofluorescent Carbon Dot Assembly as an Acidic H_2O_2 -Driven Oxygenator to Regulate Tumor Hypoxia for Simultaneous Bimodal Imaging and Enhanced Photodynamic Therapy (<i>Adv. Mater.</i> 13/2018). <i>Advanced Materials</i> , 2018, 30, 1870093.	21.0	3
98	Ultrasound-Enhanced Self-Exciting Photodynamic Therapy Based on Hypocrellin B. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1221-1224.	3.3	3
99	Theranostics: Carbon Dots with Intrinsic Theranostic Properties for Bioimaging, Red-Light-Triggered Photodynamic/Photothermal Simultaneous Therapy In Vitro and In Vivo (<i>Adv. Healthcare Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock		