

Changlong Jiang

List of Publications by Year in descending order

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86
papers

5,012
citations

116194

36
h-index

104191

69
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87
all docs

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docs citations

87
times ranked

6607
citing authors

#	ARTICLE	IF	CITATIONS
1	Shell Thickness-Dependent Raman Enhancement for Rapid Identification and Detection of Pesticide Residues at Fruit Peels. <i>Analytical Chemistry</i> , 2012, 84, 255-261.	3.2	399
2	Semiquantitative Visual Detection of Lead Ions with a Smartphone via a Colorimetric Paper-Based Analytical Device. <i>Analytical Chemistry</i> , 2019, 91, 9292-9299.	3.2	319
3	Real-Time Discrimination and Versatile Profiling of Spontaneous Reactive Oxygen Species in Living Organisms with a Single Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2016, 138, 3769-3778.	6.6	253
4	Ratiometric fluorescent paper sensor utilizing hybrid carbon dots“quantum dots for the visual determination of copper ions. <i>Nanoscale</i> , 2016, 8, 5977-5984.	2.8	249
5	A Portable Smartphone Platform Using a Ratiometric Fluorescent Paper Strip for Visual Quantitative Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12962-12971.	4.0	211
6	A dual-response ratiometric fluorescent sensor by europium-doped CdTe quantum dots for visual and colorimetric detection of tetracycline. <i>Journal of Hazardous Materials</i> , 2020, 398, 122894.	6.5	181
7	Colorimetric fluorescent paper strip with smartphone platform for quantitative detection of cadmium ions in real samples. <i>Journal of Hazardous Materials</i> , 2020, 392, 122506.	6.5	180
8	Graphene oxide embedded sandwich nanostructures for enhanced Raman readout and their applications in pesticide monitoring. <i>Nanoscale</i> , 2013, 5, 3773.	2.8	176
9	Fluorescent carbon dots: rational synthesis, tunable optical properties and analytical applications. <i>RSC Advances</i> , 2017, 7, 40973-40989.	1.7	159
10	Color-Multiplexing-Based Fluorescent Test Paper: Dosage-Sensitive Visualization of Arsenic(III) with Discernable Scale as Low as 5 ppb. <i>Analytical Chemistry</i> , 2016, 88, 6105-6109.	3.2	145
11	Fluorescent graphene oxide logic gates for discrimination of iron (3+) and iron (2+) in living cells by imaging. <i>Chemical Communications</i> , 2012, 48, 7468.	2.2	133
12	Trinitrotoluene Explosive Lights up Ultrahigh Raman Scattering of Nonresonant Molecule on a Top-Closed Silver Nanotube Array. <i>Analytical Chemistry</i> , 2011, 83, 6913-6917.	3.2	123
13	Ratiometric fluorescence detection of mercuric ion based on the nanohybrid of fluorescence carbon dots and quantum dots. <i>Analytica Chimica Acta</i> , 2013, 786, 146-152.	2.6	106
14	Portable Smartphone Platform Integrated with a Nanoprobe-Based Fluorescent Paper Strip: Visual Monitoring of Glutathione in Human Serum for Health Prognosis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8175-8183.	3.2	105
15	Fe ₃ O ₄ Nanocrystals with Novel Fractal. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18356-18360.	1.2	104
16	Precursor-Induced Hydrothermal Synthesis of Flowerlike Cupped-End Microrod Bundles of ZnO. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1361-1363.	1.2	85
17	Up“and Down“Conversion Cubic Zirconia and Hafnia Nanobelts. <i>Advanced Materials</i> , 2008, 20, 4826-4829.	11.1	84
18	Synthesis of ferromagnetic single-crystalline cobalt nanobelts via a surfactant-assisted hydrothermal reduction process. <i>Nanotechnology</i> , 2005, 16, 2958-2962.	1.3	80

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19	Efficient removal of hexavalent chromium from water by an adsorption–reduction mechanism with sandwiched nanocomposites. <i>RSC Advances</i> , 2018, 8, 15087-15093.	1.7	80
20	Single clusters of self-assembled silver nanoparticles for surface-enhanced Raman scattering sensing of a dithiocarbamate fungicide. <i>Journal of Materials Chemistry</i> , 2011, 21, 16264.	6.7	74
21	Fluorescence and visual detection of fluoride ions using a photoluminescent graphene oxide paper sensor. <i>Nanoscale</i> , 2016, 8, 13669-13677.	2.8	74
22	Portable Smartphone Platform Based on a Single Dual-Emissive Ratiometric Fluorescent Probe for Visual Detection of Isopropanol in Exhaled Breath. <i>Analytical Chemistry</i> , 2021, 93, 14506-14513.	3.2	68
23	Synthesis and characterization of ZnSe hollow nanospheres via a hydrothermal route. <i>Nanotechnology</i> , 2005, 16, 551-554.	1.3	59
24	Label-Free Surface-Enhanced Raman Scattering Imaging to Monitor the Metabolism of Antitumor Drug 6-Mercaptopurine in Living Cells. <i>Analytical Chemistry</i> , 2014, 86, 11503-11507.	3.2	58
25	Surface-enhanced Raman scattering sensor for theophylline determination by molecular imprinting on silver nanoparticles. <i>Analyst</i> , 2011, 136, 4152.	1.7	56
26	Selected-Control Solvothermal Synthesis of Nanoscale Hollow Spheres and Single-Crystal Tubes of PbTe. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 4521-4524.	1.0	55
27	Enzyme-free and rapid visual quantitative detection for pesticide residues utilizing portable smartphone integrated paper sensor. <i>Journal of Hazardous Materials</i> , 2022, 436, 129320.	6.5	53
28	Chromaticity Evolutionary Detection of Food Contaminant Semicarbazide through an Upconversion Luminescence-Based Nanosensor. <i>Analytical Chemistry</i> , 2022, 94, 1126-1134.	3.2	52
29	Multilayered shell SERS nanotags with a highly uniform single-particle Raman readout for ultrasensitive immunoassays. <i>Chemical Communications</i> , 2012, 48, 9421.	2.2	51
30	Colorimetric and SERS dual-readout for assaying alkaline phosphatase activity by ascorbic acid induced aggregation of Ag coated Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 839-845.	4.0	51
31	Hydrothermal fabrication of copper sulfide nanocones and nanobelts. <i>Materials Letters</i> , 2005, 59, 1008-1011.	1.3	49
32	Magnetic Fe ₃ O ₄ nanodisc synthesis on a large scale via a surfactant-assisted process. <i>Nanotechnology</i> , 2005, 16, 1584-1588.	1.3	49
33	Significant Optimization of Electron–Phonon Transport of n-Type Bi ₂ O ₂ Se by Mechanical Manipulation of Se Vacancies via Shear Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21603-21609.	4.0	48
34	Fluorescent paper sensor fabricated by carbazole-based probes for dual visual detection of Cu ²⁺ and gaseous H ₂ S. <i>RSC Advances</i> , 2016, 6, 56384-56391.	1.7	46
35	Hydrothermal synthesis and characterization of ZnS microspheres and hollow nanospheres. <i>Materials Chemistry and Physics</i> , 2007, 103, 24-27.	2.0	41
36	A chemically reactive Raman probe for ultrasensitively monitoring and imaging the in vivo generation of femtomolar oxidative species as induced by anti-tumor drugs in living cells. <i>Chemical Communications</i> , 2013, 49, 6647.	2.2	41

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37	Low-temperature solvothermal route to 2Hâ€SiC nanoflakes. <i>Applied Physics Letters</i> , 2006, 88, 071913.	1.5	39
38	A silica-based SERS chip for rapid and ultrasensitive detection of fluoride ions triggered by a cyclic boronate ester cleavage reaction. <i>Nanoscale</i> , 2017, 9, 1599-1606.	2.8	36
39	Gold Nanoparticle-Based Peroxyoxalate Chemiluminescence System for Highly Sensitive and Rapid Detection of Thiram Pesticides. <i>ACS Applied Nano Materials</i> , 2021, 4, 3932-3939.	2.4	35
40	In situ loading of Ag nanocontacts onto silica nanospheres: a SERS platform for ultrasensitive detection. <i>RSC Advances</i> , 2014, 4, 2776-2782.	1.7	34
41	Controlled depositing of silver nanoparticles on flexible film and its application in ultrasensitive detection. <i>RSC Advances</i> , 2014, 4, 42358-42363.	1.7	34
42	Dual-Mode Optical Nanosensor Based on Gold Nanoparticles and Carbon Dots for Visible Detection of As(III) in Water. <i>ACS Applied Nano Materials</i> , 2020, 3, 8224-8231.	2.4	33
43	Self-Assembled Copper Nanowalls into Microstructures with Different Shapes:â€ A Facile Aqueous Approach. <i>Crystal Growth and Design</i> , 2006, 6, 2603-2606.	1.4	32
44	A self-generated template route to hollow carbon nanospheres in a short time. <i>Solid State Communications</i> , 2004, 131, 749-752.	0.9	31
45	Synthesis of BaTiO ₃ Nanowires at Low Temperature. <i>Crystal Growth and Design</i> , 2007, 7, 2713-2715.	1.4	31
46	Nanostructured materials for applications in surface-enhanced Raman scattering. <i>CrystEngComm</i> , 2014, 16, 9959-9973.	1.3	31
47	Aqueous solution route to flower-like microstructures of ferromagnetic nickel nanotips. <i>Materials Letters</i> , 2006, 60, 2319-2321.	1.3	30
48	Target induced aggregation of modified Au@Ag nanoparticles for surface enhanced Raman scattering and its ultrasensitive detection of arsenic(<i>scp>iii</scp></i>) in aqueous solution. <i>RSC Advances</i> , 2015, 5, 77755-77759.	1.7	29
49	Upconversion color tuning in Ce ³⁺ -doped LiYF ₄ :Yb ³⁺ /Ho ³⁺ @LiYF ₄ nanoparticles towards ratiometric fluorescence detection of chromium(III). <i>Journal of Colloid and Interface Science</i> , 2017, 493, 10-16.	5.0	29
50	Fluorescent Nanomaterials for Colorâ€Multiplexing Test Papers toward Qualitative/Quantitative Assays. <i>Small Methods</i> , 2018, 2, 1700379.	4.6	26
51	Mesoporous nanobelts and nano-necklaces of Co ₃ O ₄ converted from β -Co(OH) ₂ nanobelts via a thermal decomposition route for the electrocatalytic oxidation of H ₂ O ₂ . <i>CrystEngComm</i> , 2014, 16, 9721-9726.	1.3	25
52	A colorimetric paper sensor for visual detection of mercury ions constructed with dual-emission carbon dots. <i>New Journal of Chemistry</i> , 2018, 42, 15671-15677.	1.4	25
53	Synthesis of g-C ₃ N ₄ nanosheet/Au@Ag nanoparticle hybrids as SERS probes for cancer cell diagnostics. <i>RSC Advances</i> , 2015, 5, 86803-86810.	1.7	24
54	Multicolorful ratiometric-fluorescent test paper for determination of fluoride ions in environmental water. <i>RSC Advances</i> , 2017, 7, 53379-53384.	1.7	24

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55	A ratiometric fluorescent paper sensor for consecutive color change-based visual determination of blood glucose in serum. <i>New Journal of Chemistry</i> , 2018, 42, 6867-6872.	1.4	23
56	A Portable Sensing Platform Using an Upconversion-Based Nanosensor for Visual Quantitative Monitoring of Mesna. <i>Analytical Chemistry</i> , 2022, 94, 7559-7566.	3.2	23
57	Ligand replacement induced chemiluminescence for selective detection of an organophosphorus pesticide using bifunctional Au@Fe ₃ O ₄ dumbbell-like nanoparticles. <i>Chemical Communications</i> , 2014, 50, 15870-15873.	2.2	22
58	General solution-based route to VI semiconductors nanorods from hydrolysate. <i>Journal of Nanoparticle Research</i> , 2007, 9, 269-274.	0.8	20
59	Nanocontact-induced catalytic activation in palladium nanoparticles. <i>Nanoscale</i> , 2009, 1, 391.	2.8	20
60	Sticky-flares for <i>in situ</i> monitoring of human telomerase RNA in living cells. <i>Nanoscale</i> , 2018, 10, 9386-9392.	2.8	18
61	Enhancing the energy storage capacity of graphene supercapacitors <i>via</i> solar heating. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3382-3392.	5.2	18
62	Semi-quantitative and visual assay of copper ions by fluorescent test paper constructed with dual-emission carbon dots. <i>RSC Advances</i> , 2018, 8, 12708-12713.	1.7	17
63	Formation of cobalt hollow nanospheres via surfactant-assisted hydrothermal progress. <i>Materials Chemistry and Physics</i> , 2009, 113, 531-533.	2.0	15
64	Synthesis of uniform layer of TiO ₂ nanoparticles coated on natural cellulose micrometer-sized fibers through a facile one-step solvothermal method. <i>Cellulose</i> , 2019, 26, 4757-4765.	2.4	15
65	Growth of dendritic bismuth microspheres by solution-phase process. <i>Materials Letters</i> , 2007, 61, 3037-3040.	1.3	14
66	Tungsten nitride/carbide nanocomposite encapsulated in nitrogen-doped carbon shell as an effective and durable catalyst for hydrogen evolution reaction. <i>New Journal of Chemistry</i> , 2018, 42, 19557-19563.	1.4	14
67	Upconversion-based dual-mode optical nanosensor for highly sensitive and colorimetric evaluation of heparin in serum. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130378.	4.0	12
68	Colloidal quantum dot chains: self-assembly mechanism and ratiometric fluorescent sensing. <i>RSC Advances</i> , 2017, 7, 53977-53983.	1.7	11
69	Ultralight aerogel based on molecular-modified poly(m-phenylenediamine) crosslinking with polyvinyl alcohol/graphene oxide for flow adsorption. <i>RSC Advances</i> , 2019, 9, 22950-22956.	1.7	11
70	Light Up-Fluorescence Visual Sensitive Detection of Organophosphorus with a Smartphone-Based Platform Utilizing a Composite Rhodamine B-Ag@Au Nanoprobe. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14579-14587.	3.2	11
71	Reusable and removable PmPD/PVA membrane for effective Cr(VI) adsorption and reduction. <i>New Journal of Chemistry</i> , 2019, 43, 5039-5046.	1.4	10
72	MOF-derived PdNiCo alloys encapsulated in nitrogen-doped graphene for robust hydrogen evolution reactions. <i>CrystEngComm</i> , 2020, 22, 6063-6070.	1.3	10

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73	Amorphization of Purely Organic Phosphors into Carbon Dots to Activate Matrix-Free Room-Temperature Phosphorescence for Multiple Applications. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2661-2670.	2.0	10
74	Controllable growth of a forest of silver nanowires and their field emission properties. <i>CrystEngComm</i> , 2014, 16, 8646.	1.3	9
75	Selective-precursor reducing route to cobalt nanocrystals and ferromagnetic property. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3146-3151.	1.4	8
76	A general approach to functional metal oxide nanobelts: thermal decomposition of precursors and interface diffusion growth mechanism. <i>CrystEngComm</i> , 2014, 16, 952-958.	1.3	8
77	3D-printed smartphone-based device for fluorimetric diagnosis of ketosis by acetone-responsive dye marker and red emissive carbon dots. <i>Mikrochimica Acta</i> , 2021, 188, 306.	2.5	8
78	Ratiometric fluorescent sensor for shutter-speedy and ultra-sensitive monitoring of antibiotic utilizing multiple fluorescent devices. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131819.	4.0	8
79	Ratiometric fluorescent sensors for nitrite detection in the environment based on carbon dot/Rhodamine B systems. <i>RSC Advances</i> , 2022, 12, 12655-12662.	1.7	8
80	A single nanofluorophore "turn on" probe for highly sensitive visual determination of environmental fluoride ions. <i>RSC Advances</i> , 2018, 8, 8688-8693.	1.7	6
81	Recyclable functionalized polymer films for the efficient removal of hexavalent chromium from aqueous solutions. <i>RSC Advances</i> , 2019, 9, 36751-36757.	1.7	5
82	A highly transparent and photothermal composite coating for effective anti-/de-icing of glass surfaces. <i>Nanoscale Advances</i> , 2022, 4, 2884-2892.	2.2	5
83	Morphology control of silver nanostructures via a chemical redox process by mixed amine ligands. <i>CrystEngComm</i> , 2013, 15, 7564.	1.3	4
84	A Mild Reduction Route to PTFE Degradation at Low Temperature. <i>Chemistry Letters</i> , 2004, 33, 1150-1151.	0.7	3
85	Solution Route to Semiconducting Nanomaterials. , 2006, , 1-24.		1
86	Integrated Laser-Induced breakdown spectroscopy with electroanalysis utilizing Bi ₂ O ₃ /Irradiated attapulgite composite for Ultra-trace detection of cadmium ions in real sample. <i>Microchemical Journal</i> , 2021, 169, 106586.	2.3	0