Chaoyang Jiang

List of Publications by Year
in descending order

61	3,465	136885 32	133188 59
papers	citations	h-index	g-index

63	63	63	5023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Freely suspended nanocomposite membranes as highly sensitive sensors. Nature Materials, 2004, 3, 721-728.	13.3	524
2	Reliable Quantitative SERS Analysis Facilitated by Coreâ€“Shell Nanoparticles with Embedded Internal Standards. Angewandte Chemie - International Edition, 2015, 54, 7308-7312.	7.2	352
3	Collective and Individual Plasmon Resonances in Nanoparticle Films Obtained by Spin-Assisted Layer-by-Layer Assembly. Langmuir, 2004, 20, 882-890.	1.6	225
4	Electroluminescence from isolated CdSeâ•ZnS quantum dots in multilayered light-emitting diodes. Journal of Applied Physics, 2004, 96, 3206-3210.	1.1	144
5	Electrospun Nanofibrous Membranes Surface-Decorated with Silver Nanoparticles as Flexible and Active/Sensitive Substrates for Surface-Enhanced Raman Scattering. Langmuir, 2012, 28, 14433-14440.	1.6	119
6	Enhancement of Near-Infrared-to-Visible Upconversion Luminescence Using Engineered Plasmonic Gold Surfaces. Journal of Physical Chemistry C, 2011, 115, 19028-19036.	1.5	115
7	Individual nanostructured materials: fabrication and surface-enhanced Raman scattering. Chemical Communications, 2012, 48, 7003.	2.2	106
8	Strong enhancement of the Breit-Wigner-Fano Raman line in carbon nanotube bundles caused by plasmon band formation. Physical Review B, 2002, 66, .	1.1	105
9	Preparation and optical properties of silver nanowires and silver-nanowire thin films. Journal of Colloid and Interface Science, 2011, 356, 151-158.	5.0	104
10	Electrospun TiO₂ Nanofelt Surface-Decorated with Ag Nanoparticles as Sensitive and UV-Cleanable Substrate for Surface Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2014, 6, 5759-5767.	4.0	93
11	Complex Buckling Instability Patterns of Nanomembranes with Encapsulated Gold Nanoparticle Arrays. Nano Letters, 2006, 6, 2254-2259.	4.5	92
12	SERS spectroscopy and SERS imaging of Shewanella oneidensis using silver nanoparticles and nanowires. Chemical Communications, 2011, 47, 4129.	2.2	79
13	Langmuirâ€“Blodgett Monolayers of Gold Nanoparticles with Amphiphilic Shells from V-Shaped Binary Polymer Arms. Langmuir, 2006, 22, 7011-7015.	1.6	70
14	Thermo-Optical Arrays of Flexible Nanoscale Nanomembranes Freely Suspended over Microfabricated Cavities as IR Microimagers. Chemistry of Materials, 2006, 18, 2632-2634.	3.2	66
15	Encapsulating Nanoparticle Arrays into Layer-by-layer Multilayers by Capillary Transfer Lithography. Chemistry of Materials, 2005, 17, 5489-5497.	3.2	62
16	Substrate- and Time-Dependent Photoluminescence of Quantum Dots Inside the Ultrathin Polymer LbL Film. Langmuir, 2007, 23, 4509-4515.	1.6	62
17	Goldâ€“silver bimetallic porous nanowires for surface-enhanced Raman scattering. Chemical Communications, 2011, 47, 9606.	2.2	62
18	Surface-Enhanced Raman Scattering on Hierarchical Porous Cuprous Oxide Nanostructures in Nanoshell and Thin-Film Geometries. Journal of Physical Chemistry Letters, 2012, 3, 651-657.	2.1	59

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19	SERS-active silver nanoparticles on electrospun nanofibers facilitated via oxygen plasma etching. RSC Advances, 2013, 3, 8998.	1.7	51
20	Greater SERS Activity of Ligand-Stabilized Gold Nanostars with Sharp Branches. Langmuir, 2020, 36, 3558-3564.	1.6	50
21	Novel Electrochemical Raman Spectroscopy Enabled by Water Immersion Objective. Analytical Chemistry, 2016, 88, 9381-9385.	3.2	49
22	Raman Imaging and Spectroscopy of Heterogeneous Individual Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 8742-8745.	1.2	46
23	Surface Enhanced Raman Scattering Monitoring of Chain Alignment in Freely Suspended Nanomembranes. Physical Review Letters, 2005, 95, 115503.	2.9	44
24	Carbon Nanotube Arrays Encapsulated into Freely Suspended Flexible Films. Chemistry of Materials, 2005, 17, 2490-2493.	3.2	44
25	Photoluminescence of a Freely Suspended Monolayer of Quantum Dots Encapsulated into Layer-by-Layer Films. Langmuir, 2007, 23, 10176-10183.	1.6	44
26	Buckling Behavior of Highly Oriented Silver Nanowires Encapsulated within Layer-by-Layer Films. Chemistry of Materials, 2007, 19, 2007-2015.	3.2	42
27	Organized arrays of nanostructures in freely suspended nanomembranes. Soft Matter, 2005, 1, 334.	1.2	40
28	Layer-by-layer assembly of freestanding thin films with homogeneously distributed upconversion nanocrystals. Journal of Materials Chemistry, 2010, 20, 8356.	6.7	40
29	High-resolution Raman microscopy of curled carbon nanotubes. Applied Physics Letters, 2004, 85, 2598-2600.	1.5	39
30	Upconversion polymeric nanofibers containing lanthanide-doped nanoparticles via electrospinning. Nanoscale, 2012, 4, 7369.	2.8	36
31	Formation and Optical Properties of Compression-Induced Nanoscale Buckles on Silver Nanowires. ACS Nano, 2009, 3, 1795-1802.	7.3	32
32	Synthesis of Clean Cabbagelike (111) Faceted Silver Crystals for Efficient Surface-Enhanced Raman Scattering Sensing of Papaverine. Analytical Chemistry, 2018, 90, 9805-9812.	3.2	30
33	Robust, fluorescent, and nanoscale freestanding conjugated films. Soft Matter, 2007, 3, 432.	1.2	29
34	pHâ€Modulated Molecular Assemblies and Surface Properties of Metalâ€“Organic Supercontainers at the Airâ€“Water Interface. Angewandte Chemie - International Edition, 2014, 53, 10965-10969.	7.2	29
35	Understanding of morphology evolution in local aggregates and neighboring regions for organic photovoltaics. Physical Chemistry Chemical Physics, 2012, 14, 10168.	1.3	26
36	Trypsin electrochemical sensing using two-dimensional molecularly imprinted polymers on 96-well microplates. Biosensors and Bioelectronics, 2018, 119, 18-24.	5.3	26

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37	Self-recovery of stressed nanomembranes. Applied Physics Letters, 2005, 86, 121912.	1.5	25
38	Robust Multilayer Thin Films Containing Cationic Thiol-Functionalized Gold Nanorods for Tunable Plasmonic Properties. Langmuir, 2012, 28, 923-930.	1.6	25
39	Structure evolution and SERS activation of cuprous oxide microcrystals via chemical etching. Journal of Materials Chemistry A, 2013, 1, 8790.	5.2	24
40	Group-Targeting SERS Screening of Total Benzodiazepines Based on Large-Size (111) Faceted Silver Nanosheets Decorated with Zinc Oxide Nanoparticles. Analytical Chemistry, 2021, 93, 3403-3410.	3.2	24
41	Tailoring the SERS Enhancement Mechanisms of Silver Nanowire Langmuirâ€“Blodgett Films via Galvanic Replacement Reaction. Journal of Physical Chemistry C, 2013, 117, 16187-16194.	1.5	23
42	Diameter-Dependent Combination Modes in Individual Single-Walled Carbon Nanotubes. Nano Letters, 2002, 2, 823-826.	4.5	19
43	Ligand Controlled Morphology Evolution of Active Intermediates for the Syntheses of Gold Nanostars. Langmuir, 2016, 32, 6674-6681.	1.6	15
44	Recent Progress in SERSâ€Based Antiâ€counterfeit Labels. Advanced Materials Interfaces, 2022, 9, .	1.9	14
45	Synthesis and Amphiphilic and Spectral Characters of N-Alkyl-8-hydroxy-2-quinolinecarboxamides. Spectroscopy Letters, 1996, 29, 763-780.	0.5	13
46	Effect of different amphiphiles and their monolayers on the crystallization of CuSO4Â·5H2Oâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1997, , 4037-4042.	1.1	13
47	Robust Fluorescent Response of Micropatterned Multilayered Films. Journal of Macromolecular Science - Physics, 2007, 46, 7-19.	0.4	13
48	Oriented crystallization of CuSO4Â·5H2O under a monolayer of a novel amphiphilic ligand, 8-hexadecyloxyquinaldic acid. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3371-3375.	1.7	10
49	Monolayer Formation of Alkyl Chain-Containing Phosphoric Acid Amphiphiles at the Air/Water (pH 5.6) Interface: Influence of Temperature and Cations. Journal of Colloid and Interface Science, 2002, 246, 335-342.	5.0	10
50	Surface-enhanced Raman scattering-based molecular encoding with gold nanostars for anticounterfeiting applications. Materials Advances, 2021, 2, 5116-5123.	2.6	9
51	Raman investigation of single oxidized carbon nanotubes. Israel Journal of Chemistry, 2001, 41, 15-22.	1.0	8
52	Manipulating the Collective Surface Plasmon Resonances of Aligned Gold Nanorods in Electrospun Composite Nanofibers. Journal of Physical Chemistry C, 2013, 117, 21490-21497.	1.5	8
53	Combination of Confocal Raman Spectroscopy and Electron Microscopy on the Same Individual Bundles of Single-Walled Carbon Nanotubes. Nano Letters, 2002, 2, 1209-1213.	4.5	7
54	pH-Modulated Molecular Assemblies and Surface Properties of Metal-Organic Supercontainers at the Air-Water Interface. Angewandte Chemie, 2014, 126, 11145-11149.	1.6	7

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55	Spectral behavior and pH dependence of N-hexadecyl-5-iminomethyl-8-hydroxyquinoline. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 1399-1407.	2.0	4
56	Characterization ofN-hexadecyl-5-iminomethyl-8-hydroxyquinoline and oriented crystallization of CuSO4Â·5H2O under its monolayer. Journal of Materials Chemistry, 1998, 8, 81-84.	6.7	3
57	Diameter-dependent coloration of silver nanowires. Nanotechnology, 2011, 22, 275712.	1.3	3
58	FT-IR studies of N-hexadecyl-5-iminomethyl-8-hydroxyquinoline Langmuirâ€“Blodgett films. Materials Chemistry and Physics, 2000, 62, 236-240.	2.0	2
59	Environment-dependent optical scattering of cuprous oxide microcrystals in liquid dispersions and Langmuirâ€“Blodgett films. Journal of Materials Chemistry C, 2014, 2, 5910-5915.	2.7	1
60	Instrument and materials development in Raman spectroscopy detection and imaging techniques for planetary explorations. Proceedings of SPIE, 2010, , .	0.8	0
61	CUBED: South Dakota 2010 Research Center For Dusel Experiments. Nuclear Physics A, 2010, 834, 816c-818c.	0.6	0