

Gang Lu

List of Publications by Year in descending order

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81900

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90
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93
all docs

93
docs citations

93
times ranked

18688
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible organic electrochemical transistors for chemical and biological sensing. Nano Research, 2022, 15, 2433-2464.	10.4	29
2	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. Nano Energy, 2022, 92, 106840.	16.0	39
3	Molecular Coadsorption of <i>p</i> -Hydroxythiophenol on Silver Nanoparticles Boosts the Plasmon-Mediated Decarboxylation Reaction. ACS Catalysis, 2022, 12, 2938-2946.	11.2	15
4	Realizing Ultrahigh Transconductance in Organic Electrochemical Transistor by Co-Doping PEDOT:PSS with Ionic Liquid and Dodecylbenzenesulfonate. Macromolecular Rapid Communications, 2022, 43, e2200212.	3.9	14
5	Monitoring the Thiol/Thiophenol Molecule-Modulated Plasmon-Mediated Silver Oxidation with Dark-Field Optical Microscopy. Chemistry - A European Journal, 2022, 28, .	3.3	6
6	Preparation of Janus nanosheets composed of gold/palladium nanoparticles and reduced graphene oxide for highly efficient emulsion catalysis. Journal of Colloid and Interface Science, 2022, 625, 59-69.	9.4	7
7	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. Nanoscale, 2021, 13, 724-729.	5.6	17
8	Preparation and applications of freestanding Janus nanosheets. Nanoscale, 2021, 13, 15151-15176.	5.6	21
9	Self-limiting lithiation of vanadium diboride nanosheets as ultra-stable mediators towards high-sulfur loading and long-cycle lithium sulfur batteries. Sustainable Energy and Fuels, 2021, 5, 3134-3142.	4.9	10
10	Gold-Etched Silver Nanowire Endoscopy: Toward a Widely Accessible Platform for Surface-Enhanced Raman Scattering-Based Analysis in Living Cells. Analytical Chemistry, 2021, 93, 5037-5045.	6.5	8
11	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. ACS Nano, 2021, 15, 5661-5670.	14.6	21
12	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and $\text{Ti}_3\text{C}_2\text{Tx}$ MXene for the Monitoring of Human Activities. ACS Nano, 2021, 15, 9690-9700.	14.6	191
13	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. Journal of Semiconductors, 2021, 42, 092601.	3.7	17
14	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. Catalysts, 2021, 11, 1115.	3.5	11
15	Synthesis of Thin $\text{Bi}_9\text{O}_{7.5}\text{S}_6$ Nanosheets for Improved Photodetection in a Wide Wavelength Range. Chemistry - an Asian Journal, 2021, 16, 3748-3753.	3.3	4
16	Plasmon-mediated photochemical transformation of inorganic nanocrystals. Applied Materials Today, 2021, 24, 101125.	4.3	14
17	Molecular Cocatalyst-Induced Enhancement of the Plasmon-Mediated Coupling of <i>p</i> -Nitrothiophenols at the Silver Nanoparticle-Graphene Oxide Interface. ACS Applied Nano Materials, 2021, 4, 10976-10984.	5.0	10
18	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. Nano Energy, 2021, 89, 106329.	16.0	41

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19	Embedding Silver Nanowires into a Hydroxypropyl Methyl Cellulose Film for Flexible Electrochromic Devices with High Electromechanical Stability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1735-1742.	8.0	25
20	Modulating the plasmon-mediated silver oxidation using thiophenol molecules as monitored by <i>in situ</i> SERS spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26385-26391.	2.8	5
21	MnO ₂ Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 1537-1545.	6.8	122
22	Single-molecule mapping of catalytic reactions on heterostructures. <i>Nano Today</i> , 2020, 34, 100957.	11.9	15
23	Borophene-like boron subunits-inserted molybdenum framework of MoB ₂ enables stable and quick-acting Li ₂ S ₆ -based lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 32, 216-224.	18.0	42
24	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. <i>ACS Omega</i> , 2020, 5, 23931-23939.	3.5	4
25	Plasmon-generated hot holes for chemical reactions. <i>Nano Research</i> , 2020, 13, 3183-3197.	10.4	64
26	Modulating the Plasmon-Mediated Oxidation of <i>p</i> -Aminothiophenol with Asymmetrically Grafted Thiol Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7650-7656.	4.6	18
27	Crack Formation on Crystalline Bismuth Oxychloride Thin Square Sheets by Using a Wet-Chemical Method. <i>ChemNanoMat</i> , 2020, 6, 759-764.	2.8	7
28	Fish Gelatin Based Triboelectric Nanogenerator for Harvesting Biomechanical Energy and Self-Powered Sensing of Human Physiological Signals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16442-16450.	8.0	100
29	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. <i>ACS Nano</i> , 2020, 14, 3876-3884.	14.6	86
30	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7914-7921.	3.1	15
31	Surface Modification Strategy for Promoting the Performance of Non-noble Metal Single-Atom Catalysts in Low-Temperature CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19457-19466.	8.0	12
32	Recent developments of flexible and transparent SERS substrates. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3956-3969.	5.5	110
33	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. <i>Chemical Communications</i> , 2019, 55, 11630-11633.	4.1	10
34	Silver Nanowire-Templated Molecular Nanopatterning and Nanoparticle Assembly for Surface-Enhanced Raman Scattering. <i>Chemistry - A European Journal</i> , 2019, 25, 10561-10565.	3.3	13
35	Synthesis of 42-faceted bismuth vanadate microcrystals for enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 207-212.	9.4	27
36	Effect of nanostructured silicon on surface enhanced Raman scattering. <i>RSC Advances</i> , 2018, 8, 6629-6633.	3.6	16

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37	Imaging Heterogeneously Distributed Photoactive Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1705494.	21.0	28
38	Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13011-13018.	8.0	45
39	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. <i>Nanoscale</i> , 2018, 10, 16895-16901.	5.6	24
40	A novel method for in situ synthesis of SERS-active gold nanostars on polydimethylsiloxane film. <i>Chemical Communications</i> , 2017, 53, 5121-5124.	4.1	56
41	Plasmon-Mediated Surface Engineering of Silver Nanowires for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2774-2779.	4.6	38
42	Surface Density-of-States Engineering of Anatase TiO ₂ by Small Polyols for Enhanced Visible-Light Photocurrent Generation. <i>ACS Omega</i> , 2017, 2, 6309-6313.	3.5	3
43	Facet-Dependent Diol-Induced Density of States of Anatase TiO ₂ Crystal Surface. <i>ACS Omega</i> , 2017, 2, 4032-4038.	3.5	12
44	In situ synthesis of Au-shelled Ag nanoparticles on PDMS for flexible, long-life, and broad spectrum-sensitive SERS substrates. <i>Chemical Communications</i> , 2017, 53, 11298-11301.	4.1	53
45	Solvent-induced improvement of Au photo-deposition and resulting photo-catalytic efficiency of Au/TiO ₂ . <i>RSC Advances</i> , 2016, 6, 97464-97468.	3.6	10
46	Surface Plasmon-Assisted Site-Specific Cutting of Silver Nanowires Using Femtosecond Laser. <i>Advanced Materials Technologies</i> , 2016, 1, 1600014.	5.8	7
47	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 561-566.	4.6	234
48	Super-resolution Localization and Defocused Fluorescence Microscopy on Resonantly Coupled Single-Molecule, Single-Nanorod Hybrids. <i>ACS Nano</i> , 2016, 10, 2455-2466.	14.6	61
49	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015, 6, 6287.	12.8	58
50	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. <i>ACS Nano</i> , 2015, 9, 5520-5535.	14.6	274
51	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14880-14891.	2.6	11
52	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. <i>RSC Advances</i> , 2015, 5, 6829-6833.	3.6	28
53	Remote excitation fluorescence correlation spectroscopy using silver nanowires. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
54	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2014, 50, 9839-9841.	4.1	34

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55	Live-Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. <i>Advanced Materials</i> , 2014, 26, 5124-5128.	21.0	110
56	Rapid and Reliable Thickness Identification of Two-Dimensional Nanosheets Using Optical Microscopy. <i>ACS Nano</i> , 2013, 7, 10344-10353.	14.6	359
57	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe_2 , TaS_2 , and $TaSe_2$. <i>Small</i> , 2013, 9, 1974-1981.	10.0	544
58	Graphene Oxide Scrolls on Hydrophobic Substrates Fabricated by Molecular Combing and Their Application in Gas Sensing. <i>Small</i> , 2013, 9, 382-386.	10.0	57
59	Surface Modification of Smooth Poly(l-lactic acid) Films for Gelatin Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 687-693.	8.0	38
60	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <i>Nanoscale</i> , 2012, 4, 293-297.	5.6	185
61	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9052-9056.	13.8	520
62	Preparation of MoS_2 -Polyvinylpyrrolidone Nanocomposites for Flexible Nonvolatile Rewritable Memory Devices with Reduced Graphene Oxide Electrodes. <i>Small</i> , 2012, 8, 3517-3522.	10.0	393
63	Chemoselective Photodeoxidization of Graphene Oxide Using Sterically Hindered Amines as Catalyst: Synthesis and Applications. <i>ACS Nano</i> , 2012, 6, 3027-3033.	14.6	82
64	Fabrication of Single- and Multilayer MoS_2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. <i>Small</i> , 2012, 8, 63-67.	10.0	1,346
65	Optical Identification of Single- and Few-Layer MoS_2 Sheets. <i>Small</i> , 2012, 8, 682-686.	10.0	290
66	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS_2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). <i>Small</i> , 2012, 8, 2-2.	10.0	4
67	Gold-Nanoparticle-Embedded Polydimethylsiloxane Elastomers for Highly Sensitive Raman Detection. <i>Small</i> , 2012, 8, 1336-1340.	10.0	72
68	Surface-Enhanced Raman Scattering of Ag-Au Nanodisk Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10390-10395.	3.1	31
69	Single-Layer MoS_2 Phototransistors. <i>ACS Nano</i> , 2012, 6, 74-80.	14.6	3,103
70	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. <i>Nanoscale</i> , 2012, 4, 860-863.	5.6	43
71	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. <i>Chemical Communications</i> , 2011, 47, 8560.	4.1	69
72	Electrochemical deposition of Cl-doped n-type Cu_2O on reduced graphene oxide electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 3467-3470.	6.7	91

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73	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. Journal of Physical Chemistry C, 2011, 115, 15973-15979.	3.1	50
74	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. Chemical Science, 2011, 2, 1817.	7.4	249
75	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. Chemical Communications, 2011, 47, 10070.	4.1	16
76	Nanoscaleâ€Controlled Enzymatic Degradation of Poly(L-lactic acid) Films Using Dip-Pen Nanolithography. Small, 2011, 7, 226-229.	10.0	24
77	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	10.0	980
78	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. Angewandte Chemie - International Edition, 2011, 50, 11093-11097.	13.8	1,517
79	Controlled growth of nano- and bio-arrays on patterned substrates. , 2010, , .		0
80	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. Langmuir, 2010, 26, 4616-4619.	3.5	12
81	Nanolithography of Single-Layer Graphene Oxide Films by Atomic Force Microscopy. Langmuir, 2010, 26, 6164-6166.	3.5	68
82	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. Langmuir, 2010, 26, 5603-5609.	3.5	98
83	Controlled growth of nano-and bio-arrays on patterned substrates. , 2010, , .		0
84	Facile â€Needle-Scratchingâ€Method for Fast Catalyst Patterns Used for Large-Scale Growth of Densely Aligned Single-Walled Carbon Nanotube Arrays. Small, 2009, 5, 2061-2065.	10.0	25
85	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. Journal of Physical Chemistry C, 2009, 113, 19119-19122.	3.1	52
86	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanoic Acid and 1-Octadecanethiol. Journal of Physical Chemistry C, 2009, 113, 4184-4187.	3.1	20
87	Controlled Assembly of Gold Nanoparticles and Graphene Oxide Sheets on Dip Pen Nanolithography-Generated Templates. Langmuir, 2009, 25, 10455-10458.	3.5	54
88	Controlled Growth of Peptide Nanoarrays on Si/SiO ₂ Substrates. Small, 2008, 4, 1324-1328.	10.0	42
89	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. Advanced Materials, 2008, 20, 4873-4878.	21.0	74
90	Preparation of Silica Microcapsules Containing Octadecane as Temperature-adjusting Powder. Chemistry Letters, 2007, 36, 494-495.	1.3	18

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91	Preparation of shape-stabilized phase change materials as temperature-adjusting powder. <i>Frontiers of Materials Science in China</i> , 2007, 1, 284-287.	0.5	7