

Gang Lu

List of Publications by Year in descending order

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81900

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90
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times ranked

18688
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	14.6	3,103
2	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. Angewandte Chemie - International Edition, 2011, 50, 11093-11097.	13.8	1,517
3	Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	10.0	1,346
4	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	10.0	980
5	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂ . Small, 2013, 9, 1974-1981.	10.0	544
6	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 9052-9056.	13.8	520
7	Preparation of MoS ₂ -Polyvinylpyrrolidone Nanocomposites for Flexible Nonvolatile Rewritable Memory Devices with Reduced Graphene Oxide Electrodes. Small, 2012, 8, 3517-3522.	10.0	393
8	Rapid and Reliable Thickness Identification of Two-Dimensional Nanosheets Using Optical Microscopy. ACS Nano, 2013, 7, 10344-10353.	14.6	359
9	Optical Identification of Single- and Few-Layer MoS ₂ Sheets. Small, 2012, 8, 682-686.	10.0	290
10	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. ACS Nano, 2015, 9, 5520-5535.	14.6	274
11	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
12	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	4.6	234
13	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and Ti ₃ C ₂ T _x MXene for the Monitoring of Human Activities. ACS Nano, 2021, 15, 9690-9700.	14.6	191
14	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. Nanoscale, 2012, 4, 293-297.	5.6	185
15	MnO ₂ Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. ChemSusChem, 2020, 13, 1537-1545.	6.8	122
16	Live-Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. Advanced Materials, 2014, 26, 5124-5128.	21.0	110
17	Recent developments of flexible and transparent SERS substrates. Journal of Materials Chemistry C, 2020, 8, 3956-3969.	5.5	110
18	Fish Gelatin Based Triboelectric Nanogenerator for Harvesting Biomechanical Energy and Self-Powered Sensing of Human Physiological Signals. ACS Applied Materials & Interfaces, 2020, 12, 16442-16450.	8.0	100

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19	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. <i>Langmuir</i> , 2010, 26, 5603-5609.	3.5	98
20	Electrochemical deposition of Cl-doped n-type Cu ₂ O on reduced graphene oxide electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 3467-3470.	6.7	91
21	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. <i>ACS Nano</i> , 2020, 14, 3876-3884.	14.6	86
22	Chemoselective Photodeoxidation of Graphene Oxide Using Sterically Hindered Amines as Catalyst: Synthesis and Applications. <i>ACS Nano</i> , 2012, 6, 3027-3033.	14.6	82
23	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 4873-4878.	21.0	74
24	Gold Nanoparticle-Embedded Polydimethylsiloxane Elastomers for Highly Sensitive Raman Detection. <i>Small</i> , 2012, 8, 1336-1340.	10.0	72
25	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. <i>Chemical Communications</i> , 2011, 47, 8560.	4.1	69
26	Nanolithography of Single-Layer Graphene Oxide Films by Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 6164-6166.	3.5	68
27	Plasmon-generated hot holes for chemical reactions. <i>Nano Research</i> , 2020, 13, 3183-3197.	10.4	64
28	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
29	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015, 6, 6287.	12.8	58
30	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
31	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
32	Controlled Assembly of Gold Nanoparticles and Graphene Oxide Sheets on Dip Pen Nanolithography-Generated Templates. <i>Langmuir</i> , 2009, 25, 10455-10458.	3.5	54
33	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
34	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19119-19122.	3.1	52
35	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15973-15979.	3.1	50
36	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

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37	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. <i>Nanoscale</i> , 2012, 4, 860-863.	5.6	43
38	Controlled Growth of Peptide Nanoarrays on Si/SiO ₂ Substrates. <i>Small</i> , 2008, 4, 1324-1328.	10.0	42
39	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
40	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. <i>Nano Energy</i> , 2021, 89, 106329.	16.0	41
41	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. <i>Nano Energy</i> , 2022, 92, 106840.	16.0	39
42	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
43	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
44	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2014, 50, 9839-9841.	4.1	34
45	Surface-Enhanced Raman Scattering of Ag@Au Nanodisk Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10390-10395.	3.1	31
46	Flexible organic electrochemical transistors for chemical and biological sensing. <i>Nano Research</i> , 2022, 15, 2433-2464.	10.4	29
47	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
48	Imaging Heterogeneously Distributed Photoactive Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1705494.	21.0	28
49	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
50	Facile "Needle-Scratching" Method for Fast Catalyst Patterns Used for Large-Scale Growth of Densely Aligned Single-Walled Carbon Nanotube Arrays. <i>Small</i> , 2009, 5, 2061-2065.	10.0	25
51	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
52	Nanoscale-Controlled Enzymatic Degradation of Poly(L-lactic acid) Films Using Dipen Nanolithography. <i>Small</i> , 2011, 7, 226-229.	10.0	24
53	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
54	Preparation and applications of freestanding Janus nanosheets. <i>Nanoscale</i> , 2021, 13, 15151-15176.	5.6	21

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55	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. ACS Nano, 2021, 15, 5661-5670.	14.6	21
56	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
57	Preparation of Silica Microcapsules Containing Octadecane as Temperature-adjusting Powder. Chemistry Letters, 2007, 36, 494-495.	1.3	18
58	Modulating the Plasmon-Mediated Oxidation of <i>p</i> -Aminothiophenol with Asymmetrically Grafted Thiol Molecules. Journal of Physical Chemistry Letters, 2020, 11, 7650-7656.	4.6	18
59	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. Nanoscale, 2021, 13, 724-729.	5.6	17
60	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. Journal of Semiconductors, 2021, 42, 092601.	3.7	17
61	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. Chemical Communications, 2011, 47, 10070.	4.1	16
62	Effect of nanostructured silicon on surface enhanced Raman scattering. RSC Advances, 2018, 8, 6629-6633.	3.6	16
63	Single-molecule mapping of catalytic reactions on heterostructures. Nano Today, 2020, 34, 100957.	11.9	15
64	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. Journal of Physical Chemistry C, 2020, 124, 7914-7921.	3.1	15
65	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
66	Plasmon-mediated photochemical transformation of inorganic nanocrystals. Applied Materials Today, 2021, 24, 101125.	4.3	14
67	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
68	Silver Nanowire-templated Molecular Nanopatterning and Nanoparticle Assembly for Surface-enhanced Raman Scattering. Chemistry - A European Journal, 2019, 25, 10561-10565.	3.3	13
69	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. Langmuir, 2010, 26, 4616-4619.	3.5	12
70	Facet-Dependent Diol-Induced Density of States of Anatase TiO ₂ Crystal Surface. ACS Omega, 2017, 2, 4032-4038.	3.5	12
71	Surface Modification Strategy for Promoting the Performance of Non-noble Metal Single-Atom Catalysts in Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 19457-19466.	8.0	12
72	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 14880-14891.	2.6	11

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73	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. <i>Catalysts</i> , 2021, 11, 1115.	3.5	11
74	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
75	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
76	Self-limiting lithiation of vanadium diboride nanosheets as ultra-stable mediators towards high-sulfur loading and long-cycle lithium sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3134-3142.	4.9	10
77	Molecular Cocatalyst-Induced Enhancement of the Plasmon-Mediated Coupling of <i>p</i> -Nitrothiophenols at the Silver Nanoparticle–Graphene Oxide Interface. <i>ACS Applied Nano Materials</i> , 2021, 4, 10976-10984.	5.0	10
78	Gold-Etched Silver Nanowire Endoscopy: Toward a Widely Accessible Platform for Surface-Enhanced Raman Scattering-Based Analysis in Living Cells. <i>Analytical Chemistry</i> , 2021, 93, 5037-5045.	6.5	8
79	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
80	Surface Plasmon-Assisted Site-Specific Cutting of Silver Nanowires Using Femtosecond Laser. <i>Advanced Materials Technologies</i> , 2016, 1, 1600014.	5.8	7
81	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
82	Preparation of Janus nanosheets composed of gold/palladium nanoparticles and reduced graphene oxide for highly efficient emulsion catalysis. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 59-69.	9.4	7
83	Monitoring the Thiol/Thiophenol Molecule-Modulated Plasmon-Mediated Silver Oxidation with Dark-Field Optical Microscopy. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	6
84	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
85	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
86	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. <i>ACS Omega</i> , 2020, 5, 23931-23939.	3.5	4
87	Synthesis of Thin Bi ₉ O _{7.5} S ₆ Nanosheets for Improved Photodetection in a Wide Wavelength Range. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3748-3753.	3.3	4
88	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
89	Controlled growth of nano- and bio-arrays on patterned substrates. , 2010, , .		0
90	Controlled growth of nano-and bio-arrays on patterned substrates. , 2010, , .		0

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91	Remote excitation fluorescence correlation spectroscopy using silver nanowires. Proceedings of SPIE, 2014, , .	0.8	0