

Gang Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	10,844 citations	36 h-index	93 g-index
93 ext. papers	11,968 ext. citations	8.9 avg, IF	5.97 L-index

#	Paper	IF	Citations
87	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. <i>Nano Energy</i> , 2022 , 92, 106840	17.1	5
86	Molecular Coadsorption of p-Hydroxythiophenol on Silver Nanoparticles Boosts the Plasmon-Mediated Decarboxylation Reaction. <i>ACS Catalysis</i> , 2022 , 12, 2938-2946	13.1	3
85	Realizing ultrahigh transconductance in organic electrochemical transistor by co-doping PEDOT:PSS with ionic liquid and dodecylbenzenesulfonate.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200212	4.8	4
84	Modulating the plasmon-mediated silver oxidation using thiophenol molecules as monitored by SERS spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26385-26391	3.6	0
83	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	9.5	9
82	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. <i>ACS Nano</i> , 2021 , 15, 5661-5670	16.7	8
81	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and TiCT MXene for the Monitoring of Human Activities. <i>ACS Nano</i> , 2021 , 15, 9690-9700	16.7	51
80	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. <i>Nanoscale</i> , 2021 , 13, 724-729	7.7	7
79	Preparation and applications of freestanding Janus nanosheets. <i>Nanoscale</i> , 2021 , 13, 15151-15176	7.7	5
78	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	5.8	4
77	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	7.8	3
76	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. <i>Journal of Semiconductors</i> , 2021 , 42, 092601	2.3	4
75	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. <i>Catalysts</i> , 2021 , 11, 1115	4	1
74	Synthesis of Thin Bi ₂ O ₃ Nanosheets for Improved Photodetection in a Wide Wavelength Range. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3748-3753	4.5	0
73	Plasmon-mediated photochemical transformation of inorganic nanocrystals. <i>Applied Materials Today</i> , 2021 , 24, 101125	6.6	5
72	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	17.1	11
71	Crack Formation on Crystalline Bismuth Oxychloride Thin Square Sheets by Using a Wet-Chemical Method. <i>ChemNanoMat</i> , 2020 , 6, 759-764	3.5	4

70	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	9.5	51
69	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. <i>ACS Nano</i> , 2020 , 14, 3876-3884	16.7	45
68	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	3.8	9
67	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	9.5	8
66	Recent developments of flexible and transparent SERS substrates. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3956-3969	7.1	43
65	MnO Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. <i>ChemSusChem</i> , 2020 , 13, 1537-1545	8.3	66
64	Single-molecule mapping of catalytic reactions on heterostructures. <i>Nano Today</i> , 2020 , 34, 100957	17.9	8
63	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	19.4	21
62	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. <i>ACS Omega</i> , 2020 , 5, 23931-23939	3.9	1
61	Plasmon-generated hot holes for chemical reactions. <i>Nano Research</i> , 2020 , 13, 3183-3197	10	25
60	Modulating the Plasmon-Mediated Oxidation of -Aminothiophenol with Asymmetrically Grafted Thiol Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7650-7656	6.4	6
59	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. <i>Chemical Communications</i> , 2019 , 55, 11630-11633	5.8	5
58	Silver Nanowire-Templated Molecular Nanopatterning and Nanoparticle Assembly for Surface-Enhanced Raman Scattering. <i>Chemistry - A European Journal</i> , 2019 , 25, 10561-10565	4.8	9
57	Synthesis of 42-faceted bismuth vanadate microcrystals for enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019 , 542, 207-212	9.3	19
56	Effect of nanostructured silicon on surface enhanced Raman scattering.. <i>RSC Advances</i> , 2018 , 8, 6629-6637	3.7	11
55	Imaging Heterogeneously Distributed Photo-Active Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018 , 30, e1705494	24	22
54	Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13011-13018	9.5	27
53	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. <i>Nanoscale</i> , 2018 , 10, 16895-16901	7.7	17

52	A novel method for in situ synthesis of SERS-active gold nanostars on polydimethylsiloxane film. <i>Chemical Communications</i> , 2017 , 53, 5121-5124	5.8	45
51	Plasmon-Mediated Surface Engineering of Silver Nanowires for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2774-2779	6.4	26
50	Surface Density-of-States Engineering of Anatase TiO by Small Polyols for Enhanced Visible-Light Photocurrent Generation. <i>ACS Omega</i> , 2017 , 2, 6309-6313	3.9	3
49	Facet-Dependent Diol-Induced Density of States of Anatase TiO Crystal Surface. <i>ACS Omega</i> , 2017 , 2, 4032-4038	3.9	11
48	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	5.8	32
47	Surface Plasmon-Assisted Site-Specific Cutting of Silver Nanowires Using Femtosecond Laser. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600014	6.8	7
46	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 561-6	6.4	193
45	Super-resolution Localization and Defocused Fluorescence Microscopy on Resonantly Coupled Single-Molecule, Single-Nanorod Hybrids. <i>ACS Nano</i> , 2016 , 10, 2455-66	16.7	50
44	Solvent-induced improvement of Au photo-deposition and resulting photo-catalytic efficiency of Au/TiO ₂ . <i>RSC Advances</i> , 2016 , 6, 97464-97468	3.7	10
43	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015 , 6, 6287	17.4	53
42	Covalent modification of graphene and graphite using diazonium chemistry: tunable grafting and nanomanipulation. <i>ACS Nano</i> , 2015 , 9, 5520-35	16.7	221
41	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14880-91	3.4	8
40	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. <i>RSC Advances</i> , 2015 , 5, 6829-6833	3.7	20
39	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2014 , 50, 9839-41	5.8	31
38	Live-cell SERS endoscopy using plasmonic nanowire waveguides. <i>Advanced Materials</i> , 2014 , 26, 5124-8	24	93
37	Rapid and reliable thickness identification of two-dimensional nanosheets using optical microscopy. <i>ACS Nano</i> , 2013 , 7, 10344-53	16.7	295
36	Mechanical exfoliation and characterization of single- and few-layer nanosheets of WSe ₂ , TaS ₂ and TaSe ₂ . <i>Small</i> , 2013 , 9, 1974-81	11	449
35	Graphene oxide scrolls on hydrophobic substrates fabricated by molecular combing and their application in gas sensing. <i>Small</i> , 2013 , 9, 382-6	11	50

34	Surface modification of smooth poly(L-lactic acid) films for gelatin immobilization. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 687-93	9.5	36
33	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <i>Nanoscale</i> , 2012 , 4, 293-7	7.7	164
32	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <i>Angewandte Chemie</i> , 2012 , 124, 9186-9190	3.6	31
31	An effective method for the fabrication of few-layer-thick inorganic nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9052-6	16.4	453
30	Preparation of MoS ₂ /polyvinylpyrrolidone nanocomposites for flexible nonvolatile rewritable memory devices with reduced graphene oxide electrodes. <i>Small</i> , 2012 , 8, 3517-22	11	337
29	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. <i>ACS Nano</i> , 2012 , 6, 3027-33	16.7	73
28	Fabrication of single- and multilayer MoS ₂ film-based field-effect transistors for sensing NO at room temperature. <i>Small</i> , 2012 , 8, 63-7	11	1213
27	Optical identification of single- and few-layer MoS ₂ sheets. <i>Small</i> , 2012 , 8, 682-6	11	249
26	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	11	4
25	Gold-nanoparticle-embedded polydimethylsiloxane elastomers for highly sensitive Raman detection. <i>Small</i> , 2012 , 8, 1336-40	11	60
24	Surface-Enhanced Raman Scattering of Ag/Au Nanodisk Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10390-10395	3.8	28
23	Single-layer MoS ₂ phototransistors. <i>ACS Nano</i> , 2012 , 6, 74-80	16.7	2704
22	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. <i>Nanoscale</i> , 2012 , 4, 860-3	7.7	37
21	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		78
20	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15973-15979	3.8	40
19	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. <i>Chemical Science</i> , 2011 , 2, 1817	9.4	230
18	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. <i>Chemical Communications</i> , 2011 , 47, 10070-2	5.8	15
17	Nanoscale-controlled enzymatic degradation of poly(L-lactic acid) films using dip-pen nanolithography. <i>Small</i> , 2011 , 7, 226-9	11	24

16	Preparation of novel 3D graphene networks for supercapacitor applications. <i>Small</i> , 2011 , 7, 3163-8	11	925
15	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. <i>Angewandte Chemie</i> , 2011 , 123, 11289-11293	3.6	183
14	Single-layer semiconducting nanosheets: high-yield preparation and device fabrication. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11093-7	16.4	1349
13	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. <i>Chemical Communications</i> , 2011 , 47, 8560-2	5.8	59
12	Generation of dual patterns of metal oxide nanomaterials based on seed-mediated selective growth. <i>Langmuir</i> , 2010 , 26, 4616-9	4	11
11	Nanolithography of single-layer graphene oxide films by atomic force microscopy. <i>Langmuir</i> , 2010 , 26, 6164-6	4	62
10	Aminosilane micropatterns on hydroxyl-terminated substrates: fabrication and applications. <i>Langmuir</i> , 2010 , 26, 5603-9	4	91
9	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, 2061-5	11	20
8	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19119-19122	3.8	48
7	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanec Acid and 1-Octadecanethiol. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4184-4187	3.8	19
6	Controlled assembly of gold nanoparticles and graphene oxide sheets on dip pen nanolithography-generated templates. <i>Langmuir</i> , 2009 , 25, 10455-8	4	52
5	Controlled growth of peptide nanoarrays on Si/SiO _x substrates. <i>Small</i> , 2008 , 4, 1324-8	11	38
4	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2008 , 20, 4873-4878	24	68
3	Preparation of shape-stabilized phase change materials as temperature-adjusting powder. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 284-287		5
2	Preparation of Silica Microcapsules Containing Octadecane as Temperature-adjusting Powder. <i>Chemistry Letters</i> , 2007 , 36, 494-495	1.7	18
1	Flexible organic electrochemical transistors for chemical and biological sensing. <i>Nano Research</i> , 2008 , 1, 1-6	10	4