Gang Lu

List of Publications by Citations

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	Single-layer MoS2 phototransistors. *ACS Nano*, **2012**, 6, 74-80	16.7	2704
86	Single-layer semiconducting nanosheets: high-yield preparation and device fabrication. *Angewandte Chemie - International Edition*, **2011**, 50, 11093-7	16.4	1349
85	Fabrication of single- and multilayer MoS2 film-based field-effect transistors for sensing NO at room temperature. *Small*, **2012**, 8, 63-7	11	1213
84	Preparation of novel 3D graphene networks for supercapacitor applications. *Small*, **2011**, 7, 3163-8	11	925
83	An effective method for the fabrication of few-layer-thick inorganic nanosheets. *Angewandte Chemie - International Edition*, **2012**, 51, 9052-6	16.4	453
82	Mechanical exfoliation and characterization of single- and few-layer nanosheets of WSe_2, TaS_2, and $TaSe_2$. *Small*, **2013**, 9, 1974-81	11	449
81	Preparation of MoS_2–polyvinylpyrrolidone nanocomposites for flexible nonvolatile rewritable memory devices with reduced graphene oxide electrodes. *Small*, **2012**, 8, 3517-22	11	337
80	Rapid and reliable thickness identification of two-dimensional nanosheets using optical microscopy. *ACS Nano*, **2013**, 7, 10344-53	16.7	295
79	Optical identification of single- and few-layer MoS_2 sheets. *Small*, **2012**, 8, 682-6	11	249
78	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. *Chemical Science*, **2011**, 2, 1817	9.4	230
77	Covalent modification of graphene and graphite using diazonium chemistry: tunable grafting and nanomanipulation. *ACS Nano*, **2015**, 9, 5520-35	16.7	221
76	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. *Journal of Physical Chemistry Letters*, **2016**, 7, 561-6	6.4	193
75	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. *Angewandte Chemie*, **2011**, 123, 11289-11293	3.6	183
74	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. *Nanoscale*, **2012**, 4, 293-7	7.7	164
73	Live-cell SERS endoscopy using plasmonic nanowire waveguides. *Advanced Materials*, **2014**, 26, 5124-8	24	93
72	Aminosilane micropatterns on hydroxyl-terminated substrates: fabrication and applications. *Langmuir*, **2010**, 26, 5603-9	4	91
71	Electrochemical deposition of Cl-doped n-type Cu2O on reduced graphene oxide electrodes. *Journal of Materials Chemistry*, **2011**, 21, 3467-3470		78

70	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. *ACS Nano*, **2012**, 6, 3027-33	16.7	73
69	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. *Advanced Materials*, **2008**, 20, 4873-4878	24	68
68	MnO Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. *ChemSusChem*, **2020**, 13, 1537-1545	8.3	66
67	Nanolithography of single-layer graphene oxide films by atomic force microscopy. *Langmuir*, **2010**, 26, 6164-6	4	62
66	Gold-nanoparticle-embedded polydimethylsiloxane elastomers for highly sensitive Raman detection. *Small*, **2012**, 8, 1336-40	11	60
65	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. *Chemical Communications*, **2011**, 47, 8560-2	5.8	59
64	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. *Nature Communications*, **2015**, 6, 6287	17.4	53
63	Controlled assembly of gold nanoparticles and graphene oxide sheets on dip pen nanolithography-generated templates. *Langmuir*, **2009**, 25, 10455-8	4	52
62	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	9.5	51
61	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and TiCT MXene for the Monitoring of Human Activities. *ACS Nano*, **2021**, 15, 9690-9700	16.7	51
60	Super-resolution Localization and Defocused Fluorescence Microscopy on Resonantly Coupled Single-Molecule, Single-Nanorod Hybrids. *ACS Nano*, **2016**, 10, 2455-66	16.7	50
59	Graphene oxide scrolls on hydrophobic substrates fabricated by molecular combing and their application in gas sensing. *Small*, **2013**, 9, 382-6	11	50
58	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. *Journal of Physical Chemistry C*, **2009**, 113, 19119-19122	3.8	48
57	A novel method for in situ synthesis of SERS-active gold nanostars on polydimethylsiloxane film. *Chemical Communications*, **2017**, 53, 5121-5124	5.8	45
56	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. *ACS Nano*, **2020**, 14, 3876-3884	16.7	45
55	Recent developments of flexible and transparent SERS substrates. *Journal of Materials Chemistry C*, **2020**, 8, 3956-3969	7.1	43
54	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. *Journal of Physical Chemistry C*, **2011**, 115, 15973-15979	3.8	40
53	Controlled growth of peptide nanoarrays on Si/SiOx substrates. *Small*, **2008**, 4, 1324-8	11	38

52	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. *Nanoscale*, **2012**, 4, 860-3	7.7	37
51	Surface modification of smooth poly(L-lactic acid) films for gelatin immobilization. *ACS Applied Materials & Interfaces*, **2012**, 4, 687-93	9.5	36
50	In situ synthesis of Au-shelled Ag nanoparticles on PDMS for flexible, long-life, and broad spectrum-sensitive SERS substrates. *Chemical Communications*, **2017**, 53, 11298-11301	5.8	32
49	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. *Chemical Communications*, **2014**, 50, 9839-41	5.8	31
48	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. *Angewandte Chemie*, **2012**, 124, 9186-9190	3.6	31
47	Surface-Enhanced Raman Scattering of Ag□Au Nanodisk Heterodimers. *Journal of Physical Chemistry C*, **2012**, 116, 10390-10395	3.8	28
46	Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. *ACS Applied Materials & Interfaces*, **2018**, 10, 13011-13018	9.5	27
45	Plasmon-Mediated Surface Engineering of Silver Nanowires for Surface-Enhanced Raman Scattering. *Journal of Physical Chemistry Letters*, **2017**, 8, 2774-2779	6.4	26
44	Plasmon-generated hot holes for chemical reactions. *Nano Research*, **2020**, 13, 3183-3197	10	25
43	Nanoscale-controlled enzymatic degradation of poly(L-lactic acid) films using dip-pen nanolithography. *Small*, **2011**, 7, 226-9	11	24
42	Imaging Heterogeneously Distributed Photo-Active Traps in Perovskite Single Crystals. *Advanced Materials*, **2018**, 30, e1705494	24	22
41	Borophene-like boron subunits-inserted molybdenum framework of MoB2 enables stable and quick-acting Li2S6-based lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 32, 216-224	19.4	21
40	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. *RSC Advances*, **2015**, 5, 6829-6833	3.7	20
39	Facile "needle-scratching" method for fast catalyst patterns used for large-scale growth of densely aligned single-walled carbon-nanotube arrays. *Small*, **2009**, 5, 2061-5	11	20
38	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanioc Acid and 1-Octadecanethiol. *Journal of Physical Chemistry C*, **2009**, 113, 4184-4187	3.8	19
37	Synthesis of 42-faceted bismuth vanadate microcrystals for enhanced photocatalytic activity. *Journal of Colloid and Interface Science*, **2019**, 542, 207-212	9.3	19
36	Preparation of Silica Microcapsules Containing Octadecane as Temperature-adjusting Powder. *Chemistry Letters*, **2007**, 36, 494-495	1.7	18
35	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. *Nanoscale*, **2018**, 10, 16895-16901	7.7	17

34	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. *Chemical Communications*, **2011**, 47, 10070-2	5.8	15
33	Effect of nanostructured silicon on surface enhanced Raman scattering.. *RSC Advances*, **2018**, 8, 6629-6633	3.7	11
32	Facet-Dependent Diol-Induced Density of States of Anatase TiO Crystal Surface. *ACS Omega*, **2017**, 2, 4032-4038	3.9	11
31	Generation of dual patterns of metal oxide nanomaterials based on seed-mediated selective growth. *Langmuir*, **2010**, 26, 4616-9	4	11
30	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. *Nano Energy*, **2021**, 89, 106329	17.1	11
29	Solvent-induced improvement of Au photo-deposition and resulting photo-catalytic efficiency of Au/TiO2. *RSC Advances*, **2016**, 6, 97464-97468	3.7	10
28	Silver Nanowire-Templated Molecular Nanopatterning and Nanoparticle Assembly for Surface-Enhanced Raman Scattering. *Chemistry - A European Journal*, **2019**, 25, 10561-10565	4.8	9
27	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. *Journal of Physical Chemistry C*, **2020**, 124, 7914-7921	3.8	9
26	Embedding Silver Nanowires into a Hydroxypropyl Methyl Cellulose Film for Flexible Electrochromic Devices with High Electromechanical Stability. *ACS Applied Materials & Interfaces*, **2021**, 13, 1735-1742	9.5	9
25	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. *Journal of Physical Chemistry B*, **2015**, 119, 14880-91	3.4	8
24	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	9.5	8
23	Single-molecule mapping of catalytic reactions on heterostructures. *Nano Today*, **2020**, 34, 100957	17.9	8
22	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. *ACS Nano*, **2021**, 15, 5661-5670	16.7	8
21	Surface Plasmon-Assisted Site-Specific Cutting of Silver Nanowires Using Femtosecond Laser. *Advanced Materials Technologies*, **2016**, 1, 1600014	6.8	7
20	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. *Nanoscale*, **2021**, 13, 724-729	7.7	7
19	Modulating the Plasmon-Mediated Oxidation of -Aminothiophenol with Asymmetrically Grafted Thiol Molecules. *Journal of Physical Chemistry Letters*, **2020**, 11, 7650-7656	6.4	6
18	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. *Chemical Communications*, **2019**, 55, 11630-11633	5.8	5
17	Preparation of shape-stabilized phase change materials as temperature-adjusting powder. *Frontiers of Materials Science in China*, **2007**, 1, 284-287		5

16	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. *Nano Energy*, **2022**, 92, 106840	17.1	5
15	Preparation and applications of freestanding Janus nanosheets. *Nanoscale*, **2021**, 13, 15151-15176	7.7	5
14	Plasmon-mediated photochemical transformation of inorganic nanocrystals. *Applied Materials Today*, **2021**, 24, 101125	6.6	5
13	Crack Formation on Crystalline Bismuth Oxychloride Thin Square Sheets by Using a Wet-Chemical Method. *ChemNanoMat*, **2020**, 6, 759-764	3.5	4
12	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). *Small*, **2012**, 8, 2-2	11	4
11	Flexible organic electrochemical transistors for chemical and biological sensing. *Nano Research*,1	10	4
10	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	5.8	4
9	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. *Journal of Semiconductors*, **2021**, 42, 092601	2.3	4
8	Realizing ultrahigh transconductance in organic electrochemical transistor by co-doping PEDOT:PSS with ionic liquid and dodecylbenzenesulfonate.. *Macromolecular Rapid Communications*, **2022**, e2200212	4.8	4
7	Surface Density-of-States Engineering of Anatase TiO by Small Polyols for Enhanced Visible-Light Photocurrent Generation. *ACS Omega*, **2017**, 2, 6309-6313	3.9	3
6	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	7.8	3
5	Molecular Coadsorption of p-Hydroxythiophenol on Silver Nanoparticles Boosts the Plasmon-Mediated Decarboxylation Reaction. *ACS Catalysis*, **2022**, 12, 2938-2946	13.1	3
4	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. *ACS Omega*, **2020**, 5, 23931-23939	3.9	1
3	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO2 Reduction to CO. *Catalysts*, **2021**, 11, 1115	4	1
2	Modulating the plasmon-mediated silver oxidation using thiophenol molecules as monitored by SERS spectroscopy. *Physical Chemistry Chemical Physics*, **2021**, 23, 26385-26391	3.6	0
1	Synthesis of Thin Bi O S Nanosheets for Improved Photodetection in a Wide Wavelength Range. *Chemistry - an Asian Journal*, **2021**, 16, 3748-3753	4.5	0