

# Liang Gao

## List of Publications by Year in descending order

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62  
papers

6,606  
citations

136740

32  
h-index

114278

63  
g-index

63  
all docs

63  
docs citations

63  
times ranked

7448  
citing authors

#	ARTICLE	IF	CITATIONS
1	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016, 7, 13651.	5.8	917
2	Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15011-15018.	6.6	826
3	Non-Fullerene Polymer Solar Cells Based on Alkylthio and Fluorine Substituted 2D-Conjugated Polymers Reach 9.5% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 4657-4664.	6.6	743
4	All- $\pi$ -Polymer Solar Cells Based on Absorption-Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. <i>Advanced Materials</i> , 2016, 28, 1884-1890.	11.1	670
5	Hypocrellin-Loaded Gold Nanocages with High Two-Photon Efficiency for Photothermal/Photodynamic Cancer Therapy <i>in Vitro</i> . <i>ACS Nano</i> , 2012, 6, 8030-8040.	7.3	311
6	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016, 28, 8288-8295.	11.1	247
7	Plasmon-Mediated Generation of Reactive Oxygen Species from Near-Infrared Light Excited Gold Nanocages for Photodynamic Therapy <i>in Vitro</i> . <i>ACS Nano</i> , 2014, 8, 7260-7271.	7.3	223
8	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703344.	11.1	209
9	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , 2018, 30, e1706361.	11.1	154
10	High-performance flexible ultraviolet photoconductors based on solution-processed ultrathin ZnO/Au nanoparticle composite films. <i>Scientific Reports</i> , 2014, 4, 4268.	1.6	153
11	Cytotoxicity and therapeutic effect of irinotecan combined with selenium nanoparticles. <i>Biomaterials</i> , 2014, 35, 8854-8866.	5.7	118
12	Large-scale preparation of 3D self-assembled iron hydroxide and oxide hierarchical nanostructures and their applications for water treatment. <i>Journal of Materials Chemistry</i> , 2011, 21, 11742.	6.7	116
13	Ultrasmall [ <sup>64</sup> Cu]Cu Nanoclusters for Targeting Orthotopic Lung Tumors Using Accurate Positron Emission Tomography Imaging. <i>ACS Nano</i> , 2015, 9, 4976-4986.	7.3	108
14	Surface-Functionalized Modified Copper Sulfide Nanoparticles Enhance Checkpoint Blockade Tumor Immunotherapy by Photothermal Therapy and Antigen Capturing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13964-13972.	4.0	105
15	pH- and Redox-Responsive Polysaccharide-Based Microcapsules with Autofluorescence for Biomedical Applications. <i>Chemistry - A European Journal</i> , 2012, 18, 3185-3192.	1.7	102
16	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702324.	10.2	102
17	Peptide-Conjugated Gold Nanoprobe: Intrinsic Nanozyme-Linked Immunosorbant Assay of Integrin Expression Level on Cell Membrane. <i>ACS Nano</i> , 2015, 9, 10979-10990.	7.3	99
18	Peptide protected gold clusters: chemical synthesis and biomedical applications. <i>Nanoscale</i> , 2016, 8, 12095-12104.	2.8	97

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19	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017, 7, 1602215.	10.2	92
20	Medium Bandgap Polymer Donor Based on Bi(trialkylsilylthienyl)benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]-difuran) for High Performance Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700746.	10.2	72
21	Wacker oxidation of 1-hexene in 1-n-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF6]), supercritical (SC) CO <sub>2</sub> , and SC CO <sub>2</sub> /[bmim][PF6] mixed solvent. <i>New Journal of Chemistry</i> , 2002, 26, 1246-1248.	1.4	68
22	Indacenodithienothiophene-naphthalene diimide copolymer as an acceptor for all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5810-5816.	5.2	66
23	Nonaqueous microemulsion-containing ionic liquid [bmim][PF6] as polar microenvironment. <i>Colloid and Polymer Science</i> , 2005, 283, 1371-1375.	1.0	65
24	Au Clusters Treat Rheumatoid Arthritis with Uniquely Reversing Cartilage/Bone Destruction. <i>Advanced Science</i> , 2019, 6, 1801671.	5.6	60
25	Blue two-photon fluorescence metal cluster probe precisely marking cell nuclei of two cell lines. <i>Chemical Communications</i> , 2013, 49, 10724.	2.2	58
26	An artificial metalloenzyme for catalytic cancer-specific DNA cleavage and operando imaging. <i>Science Advances</i> , 2020, 6, eabb1421.	4.7	56
27	Facile Approach To Observe and Quantify the $\beta$ 3 Integrin on a Single-Cell. <i>Analytical Chemistry</i> , 2015, 87, 2546-2549.	3.2	53
28	Label-Free Au Cluster Used for in Vivo 2D and 3D Computed Tomography of Murine Kidneys. <i>Analytical Chemistry</i> , 2015, 87, 343-345.	3.2	48
29	Selective Recognition of Co-assembled Thrombin Aptamer and Docetaxel on Mesoporous Silica Nanoparticles against Tumor Cell Proliferation. <i>Chemistry - A European Journal</i> , 2011, 17, 13170-13174.	1.7	45
30	Photocontrolled Reversible Luminescent Lanthanide Molecular Switch Based on a Diarylethene-Europium Dyad. <i>Inorganic Chemistry</i> , 2016, 55, 7962-7968.	1.9	44
31	n-Type conjugated electrolytes cathode interlayer with thickness-insensitivity for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13807-13816.	5.2	39
32	Turning On/Off the Anti-Tumor Effect of the Au Cluster via Atomically Controlling Its Molecular Size. <i>ACS Nano</i> , 2018, 12, 4378-4386.	7.3	34
33	Selective oxidation of cyclohexane in compressed CO <sub>2</sub> and in liquid solvents over MnAPO-5 molecular sieve. <i>Green Chemistry</i> , 2002, 4, 426-430.	4.6	32
34	Gold Clusters Prevent Inflammation-Induced Bone Erosion through Inhibiting the Activation of NF- $\kappa$ B Pathway. <i>Theranostics</i> , 2019, 9, 1825-1836.	4.6	32
35	Au Nanoclusters and Photosensitizer Dual Loaded Spatiotemporal Controllable Liposomal Nanocomposites Enhance Tumor Photodynamic Therapy Effect by Inhibiting Thioredoxin Reductase. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601453.	3.9	30
36	The Precise Diagnosis of Cancer Invasion/Metastasis via 2D Laser Ablation Mass Mapping of Metalloproteinase in Primary Cancer Tissue. <i>ACS Nano</i> , 2018, 12, 11139-11151.	7.3	29

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37	Application of nanomaterials in the treatment of rheumatoid arthritis. RSC Advances, 2021, 11, 7129-7137.	1.7	29
38	Peptide and protein modified metal clusters for cancer diagnostics. Chemical Science, 2020, 11, 5614-5629.	3.7	28
39	Alkoxy substituted benzodithiophene-alt-fluorobenzotriazole copolymer as donor in non-fullerene polymer solar cells. Science China Chemistry, 2016, 59, 1317-1322.	4.2	26
40	Detection of pH Change in Cytoplasm of Live Myocardial Ischemia Cells via the ssDNA-SWCNTs Nanoprobes. Analytical Chemistry, 2014, 86, 3048-3052.	3.2	24
41	Spatially marking and quantitatively counting membrane immunoglobulin M in live cells via Ag cluster aptamer probes. Chemical Communications, 2014, 50, 3560.	2.2	24
42	Peptide-Au Clusters Induced Tumor Cells Apoptosis via Targeting Glutathione Peroxidase-1: The Molecular Dynamics Assisted Experimental Studies. Scientific Reports, 2017, 7, 131.	1.6	20
43	Bio-inspired peptide-Au cluster applied for mercury (II) ions detection. Science China Chemistry, 2015, 58, 819-824.	4.2	18
44	Naphthalenediimide-Fused Thiophene D-A Copolymers for the Application as Acceptor in All-Polymer Solar Cells. Chemistry - an Asian Journal, 2016, 11, 2785-2791.	1.7	18
45	Positively charged graphene oxide nanoparticle: precisely label the plasma membrane of live cell and sensitively monitor extracellular pH in situ. Chemical Communications, 2014, 50, 3695-3698.	2.2	17
46	Au nanoclusters suppress chronic lymphocytic leukaemia cells by inhibiting thioredoxin reductase 1 to induce intracellular oxidative stress and apoptosis. Science Bulletin, 2017, 62, 537-545.	4.3	17
47	Atomic structure of a peptide coated gold nanocluster identified using theoretical and experimental studies. Nanoscale, 2016, 8, 11454-11460.	2.8	16
48	Peptide-Au Cluster Probe: Precisely Detecting Epidermal Growth Factor Receptor of Three Tumor Cell Lines at a Single-Cell Level. ACS Omega, 2017, 2, 276-282.	1.6	16
49	A chlorin-lipid nanovesicle nucleus drug for amplified therapeutic effects of lung cancer by internal radiotherapy combined with the Cerenkov radiation-induced photodynamic therapy. Biomaterials Science, 2020, 8, 4841-4851.	2.6	16
50	A new polymer acceptor containing naphthalene diimide and 1,3,4-thiadiazole for all-polymer solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 990-996.	2.4	15
51	Phase Behaviors, Density, and Isothermal Compressibility of Styrene + CO <sub>2</sub> , Ethylbenzene + CO <sub>2</sub> , and Ethylbenzene + Styrene + CO <sub>2</sub> Systems. Journal of Chemical & Engineering Data, 2005, 50, 1818-1822.	1.0	14
52	Biomimetic construction of protein-conjugated gold clusters for detecting Hg <sup>2+</sup> . Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 518, 80-84.	2.3	13
53	Peptide-Templated Gold Clusters as Enzyme-Like Catalyst Boost Intracellular Oxidative Pressure and Induce Tumor-Specific Cell Apoptosis. Nanomaterials, 2018, 8, 1040.	1.9	10
54	Is GSH Chelated Pt Molecule Inactive in Anti-Cancer Treatment? A Case Study of Pt <sub>6</sub> GS <sub>4</sub> . Small, 2020, 16, e2002044.	5.2	10

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55	Catalytic Clusterbody for Enhanced Quantitative Protein Immunoblot. <i>Analytical Chemistry</i> , 2021, 93, 10807-10815.	3.2	10
56	Trp2 Peptide-Assembled Nanoparticles with Intrinsically Self-Chelating <sup>64</sup> Cu Properties for PET Imaging Tracking and Dendritic Cell-Based Immunotherapy against Melanoma. <i>ACS Applied Bio Materials</i> , 2021, 4, 5707-5716.	2.3	9
57	Inherently PET/CT Dual Modality Imaging Lipid Nanocapsules for Early Detection of Orthotopic Lung Tumors. <i>ACS Applied Bio Materials</i> , 2020, 3, 611-621.	2.3	7
58	Metal Cluster-Based Electrochemical Biosensing System for Detecting Epithelial-to-Mesenchymal Transition. <i>ACS Sensors</i> , 2021, 6, 2290-2298.	4.0	7
59	Gold Cluster Capped with a BCL-2 Antagonistic Peptide Exerts Synergistic Antitumor Activity in Chronic Lymphocytic Leukemia Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21108-21118.	4.0	6
60	Folate-Conjugated Magnetic Nanoparticles for Tumor Hyperthermia Therapy: <i>In Vitro</i> and <i>In Vivo</i> Studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8352-8359.	0.9	4
61	Noble-metal nanocluster as enzyme-mimetic catalyst for diagnostic analysis. <i>Science China Technological Sciences</i> , 2019, 62, 2306-2309.	2.0	4
62	On-Cell Catalytic Detection of Epithelial-to-Mesenchymal Transition by a Clusterzyme Bioprobe. <i>Analytical Chemistry</i> , 2022, 94, 3023-3028.	3.2	4