

# Xiaoyuan Ji

## List of Publications by Year in descending order

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58  
papers

6,890  
citations

87888

38  
h-index

133252

59  
g-index

59  
all docs

59  
docs citations

59  
times ranked

8347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. <i>Advanced Materials</i> , 2017, 29, 1603276.	21.0	721
2	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 2891-2912.	38.1	482
3	Polydopamine-Modified Black Phosphorous Nanocapsule with Enhanced Stability and Photothermal Performance for Tumor Multimodal Treatments. <i>Advanced Science</i> , 2018, 5, 1800510.	11.2	460
4	Comprehensive Insights into the Multi-Antioxidative Mechanisms of Melanin Nanoparticles and Their Application To Protect Brain from Injury in Ischemic Stroke. <i>Journal of the American Chemical Society</i> , 2017, 139, 856-862.	13.7	404
5	Large-Scale Aqueous Synthesis of Fluorescent and Biocompatible Silicon Nanoparticles and Their Use as Highly Photostable Biological Probes. <i>Journal of the American Chemical Society</i> , 2013, 135, 8350-8356.	13.7	386
6	ROS-Responsive Polyprodrug Nanoparticles for Triggered Drug Delivery and Effective Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1700141.	21.0	370
7	A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1803031.	21.0	318
8	Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics. <i>Advanced Materials</i> , 2018, 30, e1802061.	21.0	314
9	Intracellular Mechanistic Understanding of 2D MoS <sub>2</sub> Nanosheets for Anti-Exocytosis-Enhanced Synergistic Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 2922-2938.	14.6	188
10	Synthetic mRNA nanoparticle-mediated restoration of p53 tumor suppressor sensitizes p53-deficient cancers to mTOR inhibition. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	177
11	Engineering Multifunctional RNAi Nanomedicine To Concurrently Target Cancer Hallmarks for Combinatorial Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1510-1513.	13.8	168
12	Dual-response oxygen-generating MnO <sub>2</sub> nanoparticles with polydopamine modification for combined photothermal-photodynamic therapy. <i>Chemical Engineering Journal</i> , 2020, 389, 124494.	12.7	166
13	Phosphorus Science-Oriented Design and Synthesis of Multifunctional Nanomaterials for Biomedical Applications. <i>Matter</i> , 2020, 2, 297-322.	10.0	165
14	ROS-Mediated Selective Killing Effect of Black Phosphorus: Mechanistic Understanding and Its Guidance for Safe Biomedical Applications. <i>Nano Letters</i> , 2020, 20, 3943-3955.	9.1	158
15	Arsenene-mediated multiple independently targeted reactive oxygen species burst for cancer therapy. <i>Nature Communications</i> , 2021, 12, 4777.	12.8	144
16	Tethering of Nicotinamide Adenine Dinucleotide Inside Hollow Nanofibers for High-Yield Synthesis of Methanol from Carbon Dioxide Catalyzed by Coencapsulated Multienzymes. <i>ACS Nano</i> , 2015, 9, 4600-4610.	14.6	142
17	Synthesis of Ultrathin Biotite Nanosheets as an Intelligent Theranostic Platform for Combination Cancer Therapy. <i>Advanced Science</i> , 2019, 6, 1901211.	11.2	130
18	Tumor Microenvironment-Responsive Multistaged Nanoplatform for Systemic RNAi and Cancer Therapy. <i>Nano Letters</i> , 2017, 17, 4427-4435.	9.1	119

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19	Biomimetic Preparation and Dual-Color Bioimaging of Fluorescent Silicon Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 14726-14732.	13.7	111
20	Highly Fluorescent, Photostable, and Ultrasmall Silicon Drug Nanocarriers for Long-Term Tumor Cell Tracking and In Vivo Cancer Therapy. <i>Advanced Materials</i> , 2015, 27, 1029-1034.	21.0	105
21	2D Monoelemental Germanene Quantum Dots: Synthesis as Robust Photothermal Agents for Photonic Cancer Nanomedicine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13405-13410.	13.8	102
22	The Emergence and Evolution of Borophene. <i>Advanced Science</i> , 2021, 8, 2001801.	11.2	98
23	Tantalum Sulfide Nanosheets as a Theranostic Nanoplatform for Computed Tomography Imaging-Guided Combinatorial Chemo-Photothermal Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1703261.	14.9	89
24	Z-scheme Heterojunction Functionalized Pyrite Nanosheets for Modulating Tumor Microenvironment and Strengthening Photo/Chemodynamic Therapeutic Effects. <i>Advanced Functional Materials</i> , 2020, 30, 1906466.	14.9	89
25	Surface De-PEGylation Controls Nanoparticle-Mediated siRNA Delivery <i>in Vitro</i> and <i>in Vivo</i> . <i>Theranostics</i> , 2017, 7, 1990-2002.	10.0	81
26	Silicon Nanomaterials for Biosensing and Bioimaging Analysis. <i>Frontiers in Chemistry</i> , 2018, 6, 38.	3.6	80
27	Peptide-Conjugated Fluorescent Silicon Nanoparticles Enabling Simultaneous Tracking and Specific Destruction of Cancer Cells. <i>Analytical Chemistry</i> , 2015, 87, 6718-6723.	6.5	71
28	An antimonene/Cp*Rh(phen)Cl/black phosphorus hybrid nanosheet-based Z-scheme artificial photosynthesis for enhanced photo/bio-catalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 323-333.	10.3	71
29	Integration of Artificial Photosynthesis System for Enhanced Electronic Energy Transfer Efficacy: A Case Study for Solar Energy Driven Bioconversion of Carbon Dioxide to Methanol. <i>Small</i> , 2016, 12, 4753-4762.	10.0	70
30	SnTe@MnO <sub>2</sub> SP Nanosheet-Based Intelligent Nanoplatform for Second Near-Infrared Light-Mediated Cancer Theranostics. <i>Advanced Functional Materials</i> , 2019, 29, 1903791.	14.9	69
31	Enabling multi-enzyme biocatalysis using coaxial-electrospun hollow nanofibers: redesign of artificial cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 181-190.	5.8	64
32	Doxorubicin-loaded silicon nanowires for the treatment of drug-resistant cancer cells. <i>Biomaterials</i> , 2014, 35, 5188-5195.	11.4	64
33	Epigenetic Remodeling Hydrogel Patches for Multidrug-Resistant Triple-Negative Breast Cancer. <i>Advanced Materials</i> , 2021, 33, e2100949.	21.0	61
34	Fluorescent Silicon Nanorods-Based Ratiometric Sensors for Long-Term and Real-Time Measurements of Intracellular pH in Live Cells. <i>Analytical Chemistry</i> , 2017, 89, 12152-12159.	6.5	51
35	Heterojunction Nanomedicine. <i>Advanced Science</i> , 2022, 9, e2105747.	11.2	51
36	Porphyrin/SiO <sub>2</sub> /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis. <i>Advanced Functional Materials</i> , 2018, 28, 1705083.	14.9	45

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37	WS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite as an efficient heterojunction photocatalyst for biocatalyzed artificial photosynthesis. RSC Advances, 2018, 8, 20557-20567.	3.6	42
38	“Ready-to-use” hollow nanofiber membrane-based glucose testing strips. Analyst, The, 2014, 139, 6467-6473.	3.5	41
39	Integration of functionalized two-dimensional TaS <sub>2</sub> nanosheets and an electron mediator for more efficient biocatalyzed artificial photosynthesis. Journal of Materials Chemistry A, 2017, 5, 5511-5522.	10.3	38
40	Piezo-photocatalytic effect mediating reactive oxygen species burst for cancer catalytic therapy. Materials Horizons, 2021, 8, 2273-2285.	12.2	38
41	Polyelectrolyte Doped Hollow Nanofibers for Positional Assembly of Bienzyme System for Cascade Reaction at O/W Interface. ACS Catalysis, 2014, 4, 4548-4559.	11.2	35
42	Magnetic field intensified bi-enzyme system with in situ cofactor regeneration supported by magnetic nanoparticles. Journal of Biotechnology, 2013, 168, 212-217.	3.8	33
43	Two-dimensional highly oxidized ilmenite nanosheets equipped with Z-scheme heterojunction for regulating tumor microenvironment and enhancing reactive oxygen species generation. Chemical Engineering Journal, 2020, 390, 124524.	12.7	32
44	TiO <sub>2</sub> “Horseradish Peroxidase Hybrid Catalyst Based on Hollow Nanofibers for Simultaneous Photochemical” Enzymatic Degradation of 2,4-Dichlorophenol. ACS Sustainable Chemistry and Engineering, 2016, 4, 3634-3640.	6.7	27
45	Enhanced Solar Energy Harvest and Electron Transfer through Intra- and Intermolecular Dual Channels in Chlorosome-Mimicking Supramolecular Self-Assemblies. ACS Catalysis, 2018, 8, 10732-10745.	11.2	26
46	Emerging Two-Dimensional Nanomaterials for Cancer Therapy. ChemPhysChem, 2019, 20, 2417-2433.	2.1	24
47	Boron-based nanosheets for combined cancer photothermal and photodynamic therapy. Journal of Materials Chemistry B, 2020, 8, 4609-4619.	5.8	22
48	Protein-Mimicking Nanoparticles for a Cellular Regulation of Homeostasis. ACS Applied Materials & Interfaces, 2021, 13, 31331-31336.	8.0	19
49	Protein-Mimicking Nanoparticles in Biosystems. Advanced Materials, 2022, 34, e2201562.	21.0	17
50	Traditional Chinese medicine molecule-assisted chemical synthesis of fluorescent anti-cancer silicon nanoparticles. Nano Research, 2018, 11, 5629-5641.	10.4	16
51	Biocompatible protamine sulfate@silicon nanoparticle-based gene nanocarriers featuring strong and stable fluorescence. Nanoscale, 2018, 10, 14455-14463.	5.6	16
52	Comprehensive insights into intracellular fate of WS <sub>2</sub> nanosheets for enhanced photothermal therapeutic outcomes via exocytosis inhibition. Nanophotonics, 2019, 8, 2331-2346.	6.0	16
53	Graphene Oxide and Polyelectrolyte Composed One-Way Expressway for Guiding Electron Transfer of Integrated Artificial Photosynthesis. ACS Sustainable Chemistry and Engineering, 2018, 6, 3060-3069.	6.7	15
54	Regulation of enzyme activity and stability through positional interaction with polyurethane nanofibers. Biochemical Engineering Journal, 2017, 121, 147-155.	3.6	13

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55	Sandwiching multiple dehydrogenases and shared cofactor between double polyelectrolytes for enhanced communication of cofactor and enzymes. <i>Biochemical Engineering Journal</i> , 2018, 137, 40-49.	3.6	10
56	L- $\alpha$ -methylselenocysteine sensitizes lung carcinoma to chemotherapy. <i>Cell Proliferation</i> , 2021, 54, e13038.	5.3	10
57	Homotypic targeting of immunomodulatory nanoparticles for enhanced peripheral and central immunity. <i>Cell Proliferation</i> , 2022, 55, e13192.	5.3	5
58	Controllable silicon nanostructures featuring stable fluorescence and intrinsic <i>in vitro</i> and <i>in vivo</i> anti-cancer activity. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6247-6256.	5.8	3