

Xiaoyuan Ji

List of Publications by Year in descending order

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70
papers

8,082
citations

70961

41
h-index

88477

70
g-index

72
all docs

72
docs citations

72
times ranked

8039
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. <i>Advanced Materials</i> , 2017, 29, 1603276.	11.1	721
2	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 2891-2912.	18.7	482
3	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11896-11900.	7.2	465
4	Polydopamine-Modified Black Phosphorous Nanocapsule with Enhanced Stability and Photothermal Performance for Tumor Multimodal Treatments. <i>Advanced Science</i> , 2018, 5, 1800510.	5.6	460
5	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.	6.6	404
6	ROS-Responsive Polyprodrug Nanoparticles for Triggered Drug Delivery and Effective Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1700141.	11.1	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.	11.1	318
8	Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics. <i>Advanced Materials</i> , 2018, 30, e1802061.	11.1	314
9	In situ sprayed NIR-responsive, analgesic black phosphorus-based gel for diabetic ulcer treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28667-28677.	3.3	244
10	Marriage of black phosphorus and Cu ²⁺ as effective photothermal agents for PET-guided combination cancer therapy. <i>Nature Communications</i> , 2020, 11, 2778.	5.8	233
11	Capturing functional two-dimensional nanosheets from sandwich-structure vermiculite for cancer theranostics. <i>Nature Communications</i> , 2021, 12, 1124.	5.8	227
12	Germanene-Based Theranostic Materials for Surgical Adjuvant Treatment: Inhibiting Tumor Recurrence and Wound Infection. <i>Matter</i> , 2020, 3, 127-144.	5.0	190
13	Intracellular Mechanistic Understanding of 2D MoS ₂ Nanosheets for Anti-Exocytosis-Enhanced Synergistic Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 2922-2938.	7.3	188
14	Synthetic mRNA nanoparticle-mediated restoration of p53 tumor suppressor sensitizes p53-deficient cancers to mTOR inhibition. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	177
15	Engineering Multifunctional RNAi Nanomedicine To Concurrently Target Cancer Hallmarks for Combinatorial Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1510-1513.	7.2	168
16	Dual-response oxygen-generating MnO ₂ nanoparticles with polydopamine modification for combined photothermal-photodynamic therapy. <i>Chemical Engineering Journal</i> , 2020, 389, 124494.	6.6	166
17	Phosphorus Science-Oriented Design and Synthesis of Multifunctional Nanomaterials for Biomedical Applications. <i>Matter</i> , 2020, 2, 297-322.	5.0	165
18	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.	4.5	158

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19	Arsenene-mediated multiple independently targeted reactive oxygen species burst for cancer therapy. <i>Nature Communications</i> , 2021, 12, 4777.	5.8	144
20	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.	7.3	142
21	Synthesis of Ultrathin Biotite Nanosheets as an Intelligent Theranostic Platform for Combination Cancer Therapy. <i>Advanced Science</i> , 2019, 6, 1901211.	5.6	130
22	Magnetic nanoparticles coated with polyphenols for spatio-temporally controlled cancer photothermal/immunotherapy. <i>Journal of Controlled Release</i> , 2020, 326, 131-139.	4.8	125
23	Tumor Microenvironment-Responsive Multistaged Nanoplatform for Systemic RNAi and Cancer Therapy. <i>Nano Letters</i> , 2017, 17, 4427-4435.	4.5	119
24	Stanene-Based Nanosheets for ^{125}I -Mediated Combination Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7155-7164.	7.2	113
25	2D Monoelemental Germanene Quantum Dots: Synthesis as Robust Photothermal Agents for Photonic Cancer Nanomedicine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13405-13410.	7.2	102
26	The Emergence and Evolution of Borophene. <i>Advanced Science</i> , 2021, 8, 2001801.	5.6	98
27	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie</i> , 2017, 129, 12058-12062.	1.6	93
28	Tantalum Sulfide Nanosheets as a Theranostic Nanoplatform for Computed Tomography Imaging-Guided Combinatorial Chemo-Photothermal Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1703261.	7.8	89
29	Z-scheme Heterojunction Functionalized Pyrite Nanosheets for Modulating Tumor Microenvironment and Strengthening Photo/Chemodynamic Therapeutic Effects. <i>Advanced Functional Materials</i> , 2020, 30, 1906466.	7.8	89
30	Heterojunction engineered bioactive chlorella for cascade promoted cancer therapy. <i>Journal of Controlled Release</i> , 2022, 345, 755-769.	4.8	86
31	Surface De-PEGylation Controls Nanoparticle-Mediated siRNA Delivery <i>in Vitro</i> and <i>in Vivo</i> . <i>Theranostics</i> , 2017, 7, 1990-2002.	4.6	81
32	Renal-Clearable Ultrasmall Polypyrrole Nanoparticles with Size-Regulated Property for Second Near-Infrared Light-Mediated Photothermal Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2008362.	7.8	72
33	An antimonene/Cp*Rh(phen)Cl/black phosphorus hybrid nanosheet-based Z-scheme artificial photosynthesis for enhanced photo/bio-catalytic CO_2 reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 323-333.	5.2	71
34	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.	5.2	70
35	$\text{SnTe}@\text{MnO}_2$ -Based Intelligent Nanoplatform for Second Near-Infrared Light-Mediated Cancer Theranostics. <i>Advanced Functional Materials</i> , 2019, 29, 1903791.	7.8	69
36	Design of a two-dimensional interplanar heterojunction for catalytic cancer therapy. <i>Nature Communications</i> , 2022, 13, 2425.	5.8	65

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37	Enabling multi-enzyme biocatalysis using coaxial-electrospun hollow nanofibers: redesign of artificial cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 181-190.	2.9	64
38	Transforming "cold" tumors into "hot" ones via tumor-microenvironment-responsive siRNA micelleplexes for enhanced immunotherapy. <i>Matter</i> , 2022, 5, 2285-2305.	5.0	62
39	Heterojunction Nanomedicine. <i>Advanced Science</i> , 2022, 9, e2105747.	5.6	51
40	Porphyrin/SiO ₂ /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.	7.8	45
41	Cryogenic Exfoliation of 2D Stanene Nanosheets for Cancer Theranostics. <i>Nano-Micro Letters</i> , 2021, 13, 90.	14.4	43
42	WS ₂ /g-C ₃ N ₄ composite as an efficient heterojunction photocatalyst for biocatalyzed artificial photosynthesis. <i>RSC Advances</i> , 2018, 8, 20557-20567.	1.7	42
43	"Ready-to-use" hollow nanofiber membrane-based glucose testing strips. <i>Analyst</i> , 2014, 139, 6467-6473.	1.7	41
44	2D Monoelemental Germanene Quantum Dots: Synthesis as Robust Photothermal Agents for Photonic Cancer Nanomedicine. <i>Angewandte Chemie</i> , 2019, 131, 13539-13544.	1.6	41
45	Two-Dimensional Nanomaterial-based catalytic Medicine: Theories, advanced catalyst and system design. <i>Advanced Drug Delivery Reviews</i> , 2022, 184, 114241.	6.6	39
46	Integration of functionalized two-dimensional TaS ₂ nanosheets and an electron mediator for more efficient biocatalyzed artificial photosynthesis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5511-5522.	5.2	38
47	Piezo-photocatalytic effect mediating reactive oxygen species burst for cancer catalytic therapy. <i>Materials Horizons</i> , 2021, 8, 2273-2285.	6.4	38
48	Polyelectrolyte Doped Hollow Nanofibers for Positional Assembly of Bi-enzyme System for Cascade Reaction at O/W Interface. <i>ACS Catalysis</i> , 2014, 4, 4548-4559.	5.5	35
49	Magnetic field intensified bi-enzyme system with in situ cofactor regeneration supported by magnetic nanoparticles. <i>Journal of Biotechnology</i> , 2013, 168, 212-217.	1.9	33
50	Two-dimensional highly oxidized ilmenite nanosheets equipped with Z-scheme heterojunction for regulating tumor microenvironment and enhancing reactive oxygen species generation. <i>Chemical Engineering Journal</i> , 2020, 390, 124524.	6.6	32
51	Engineering Multifunctional RNAi Nanomedicine To Concurrently Target Cancer Hallmarks for Combinatorial Therapy. <i>Angewandte Chemie</i> , 2018, 130, 1526-1529.	1.6	29
52	TiO ₂ "Horseradish Peroxidase Hybrid Catalyst Based on Hollow Nanofibers for Simultaneous Photochemical" Enzymatic Degradation of 2,4-Dichlorophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3634-3640.	3.2	27
53	Antimonene Nanosheets-Based Z-scheme Heterostructure with Enhanced Reactive Oxygen Species Generation and Photothermal Conversion Efficiency for Photonic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001835.	3.9	27
54	Enhanced Solar Energy Harvest and Electron Transfer through Intra- and Intermolecular Dual Channels in Chlorosome-Mimicking Supramolecular Self-Assemblies. <i>ACS Catalysis</i> , 2018, 8, 10732-10745.	5.5	26

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55	Emerging Two-Dimensional Nanomaterials for Cancer Therapy. <i>ChemPhysChem</i> , 2019, 20, 2417-2433.	1.0	24
56	Boron-based nanosheets for combined cancer photothermal and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4609-4619.	2.9	22
57	Comprehensive insights into intracellular fate of WS ₂ nanosheets for enhanced photothermal therapeutic outcomes via exocytosis inhibition. <i>Nanophotonics</i> , 2019, 8, 2331-2346.	2.9	16
58	Graphene Oxide and Polyelectrolyte Composed One-Way Expressway for Guiding Electron Transfer of Integrated Artificial Photosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3060-3069.	3.2	15
59	Regulation of enzyme activity and stability through positional interaction with polyurethane nanofibers. <i>Biochemical Engineering Journal</i> , 2017, 121, 147-155.	1.8	13
60	Stanene-Based Nanosheets for I ² A-Element Delivery and Ultrasound-Mediated Combination Cancer Therapy. <i>Angewandte Chemie</i> , 2021, 133, 7231-7240.	1.6	12
61	Positional assembly of multi-enzyme cascade reaction in polyelectrolyte doped microcapsule through electrospray and layer-by-layer assembly. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 206-213.	1.8	11
62	Black Phosphorus: Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics (<i>Adv. Mater.</i> 1/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	10
63	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.	1.8	10
64	Synthesis of red/black phosphorus-based composite nanosheets with a Z-scheme heterostructure for high-performance cancer phototherapy. <i>Nanoscale</i> , 2022, 14, 766-779.	2.8	9
65	Cancer Theranostics: A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy (<i>Adv. Mater.</i> 36/2018). <i>Advanced Materials</i> , 2018, 30, 1870268.	11.1	4
66	Cancer Theranostics: Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics (<i>Adv. Mater.</i> 38/2018). <i>Advanced Materials</i> , 2018, 30, 1870283.	11.1	3
67	2D Black Mica Nanosheets: Synthesis of Ultrathin Biotite Nanosheets as an Intelligent Theranostic Platform for Combination Cancer Therapy (<i>Adv. Sci.</i> 19/2019). <i>Advanced Science</i> , 2019, 6, 1970118.	5.6	2
68	Innentitelbild: Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy (<i>Angew. Chem.</i> 39/2017). <i>Angewandte Chemie</i> , 2017, 129, 11816-11816.	1.6	1
69	Artificial Photosynthesis: Porphyrin/SiO ₂ /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis (<i>Adv. Funct. Mater.</i> 9/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870061.	7.8	1
70	Titelbild: Stanene-Based Nanosheets for I ² A-Element Delivery and Ultrasound-Mediated Combination Cancer Therapy (<i>Angew. Chem.</i> 13/2021). <i>Angewandte Chemie</i> , 2021, 133, 6905-6905.	1.6	0