

# Jin-Jun Shi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2012430/publications.pdf>

Version: 2024-02-01

106  
papers

17,944  
citations

19636

61  
h-index

26591

107  
g-index

113  
all docs

113  
docs citations

113  
times ranked

24121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cancer nanomedicine: progress, challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 20-37.	12.8	4,153
2	Nanotechnology in Drug Delivery and Tissue Engineering: From Discovery to Applications. <i>Nano Letters</i> , 2010, 10, 3223-3230.	4.5	1,369
3	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. <i>Advanced Materials</i> , 2017, 29, 1603276.	11.1	721
4	Insight into nanoparticle cellular uptake and intracellular targeting. <i>Journal of Controlled Release</i> , 2014, 190, 485-499.	4.8	624
5	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
6	Self-Assembled Targeted Nanoparticles: Evolution of Technologies and Bench to Bedside Translation. <i>Accounts of Chemical Research</i> , 2011, 44, 1123-1134.	7.6	416
7	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
8	ROS-Responsive Polyprodrug Nanoparticles for Triggered Drug Delivery and Effective Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1700141.	11.1	370
9	Development of a Gas Sensor Utilizing Chemiluminescence on Nanosized Titanium Dioxide. <i>Analytical Chemistry</i> , 2002, 74, 120-124.	3.2	332
10	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
11	A mucosal vaccine against <i>Chlamydia trachomatis</i> generates two waves of protective memory T cells. <i>Science</i> , 2015, 348, aaa8205.	6.0	312
12	Enhancing tumor cell response to chemotherapy through nanoparticle-mediated codelivery of siRNA and cisplatin prodrug. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18638-18643.	3.3	302
13	DNA Self-Assembly of Targeted Near-Infrared-Responsive Gold Nanoparticles for Cancer Thermo-Chemotherapy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11853-11857.	7.2	299
14	Nanotechnology for protein delivery: Overview and perspectives. <i>Journal of Controlled Release</i> , 2016, 240, 24-37.	4.8	294
15	Nanomedicine in the management of microbial infection – Overview and perspectives. <i>Nano Today</i> , 2014, 9, 478-498.	6.2	286
16	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	7.3	279
17	Application of the Biological Conjugate between Antibody and Colloid Au Nanoparticles as Analyte to Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 96-99.	3.2	240
18	Engineered nanomedicine for myeloma and bone microenvironment targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10287-10292.	3.3	234

#	ARTICLE	IF	CITATIONS
19	Ultra-pH-Responsive and Tumor-Penetrating Nanoplatfom for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7091-7094.	7.2	216
20	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. <i>Nature Biomedical Engineering</i> , 2018, 2, 850-864.	11.6	214
21	Emerging nanotechnology approaches for HIV/AIDS treatment and prevention. <i>Nanomedicine</i> , 2010, 5, 269-285.	1.7	201
22	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
23	GM1 Clustering Inhibits Cholera Toxin Binding in Supported Phospholipid Membranes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5954-5961.	6.6	175
24	Glutathione-Scavenging Poly(disulfide amide) Nanoparticles for the Effective Delivery of Pt(IV) Prodrugs and Reversal of Cisplatin Resistance. <i>Nano Letters</i> , 2018, 18, 4618-4625.	4.5	173
25	Multifunctional Envelope-Type siRNA Delivery Nanoparticle Platform for Prostate Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 2618-2627.	7.3	172
26	Macrophage-targeted nanomedicine for the diagnosis and treatment of atherosclerosis. <i>Nature Reviews Cardiology</i> , 2022, 19, 228-249.	6.1	171
27	Recent developments in nanomaterial optical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 351-360.	5.8	170
28	Long-circulating siRNA nanoparticles for validating Prohibitin1-targeted non-small cell lung cancer treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7779-7784.	3.3	170
29	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
30	Hydrophobic Cysteine Poly(disulfide)-based Redox-Hypersensitive Nanoparticle Platform for Cancer Theranostics. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9218-9223.	7.2	164
31	Differentially Charged Hollow Core/Shell Lipid-Polymer-Lipid Hybrid Nanoparticles for Small Interfering RNA Delivery. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7027-7031.	7.2	156
32	Engineering of Targeted Nanoparticles for Cancer Therapy Using Internalizing Aptamers Isolated by Cell-Uptake Selection. <i>ACS Nano</i> , 2012, 6, 696-704.	7.3	148
33	Nanodelivery of nucleic acids. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	146
34	Adjuvant-carrying synthetic vaccine particles augment the immune response to encapsulated antigen and exhibit strong local immune activation without inducing systemic cytokine release. <i>Vaccine</i> , 2014, 32, 2882-2895.	1.7	144
35	Biomaterials for mRNA delivery. <i>Biomaterials Science</i> , 2015, 3, 1519-1533.	2.6	143
36	Biomimetic Nanosilica-Collagen Scaffolds for In Situ Bone Regeneration: Toward a Cell-Free, One-Step Surgery. <i>Advanced Materials</i> , 2019, 31, e1904341.	11.1	134

#	ARTICLE	IF	CITATIONS
37	siRNA nanoparticles targeting CaMKII $\beta$ in lesional macrophages improve atherosclerotic plaque stability in mice. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	132
38	Adjuvant-pulsed mRNA vaccine nanoparticle for immunoprophylactic and therapeutic tumor suppression in mice. <i>Biomaterials</i> , 2021, 266, 120431.	5.7	131
39	Development of Multinuclear Polymeric Nanoparticles as Robust Protein Nanocarriers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8975-8979.	7.2	122
40	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3309-3312.	7.2	121
41	Tumor Microenvironment-Responsive Multistaged Nanoplatform for Systemic RNAi and Cancer Therapy. <i>Nano Letters</i> , 2017, 17, 4427-4435.	4.5	119
42	Antioxidative nanomaterials and biomedical applications. <i>Nano Today</i> , 2019, 27, 146-177.	6.2	116
43	Reactivation of the tumor suppressor PTEN by mRNA nanoparticles enhances antitumor immunity in preclinical models. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	111
44	RNA Nanotechnology-Mediated Cancer Immunotherapy. <i>Theranostics</i> , 2020, 10, 281-299.	4.6	100
45	Efferocytosis induces macrophage proliferation to help resolve tissue injury. <i>Cell Metabolism</i> , 2021, 33, 2445-2463.e8.	7.2	98
46	Combining p53 mRNA nanotherapy with immune checkpoint blockade reprograms the immune microenvironment for effective cancer therapy. <i>Nature Communications</i> , 2022, 13, 758.	5.8	94
47	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
48	Nanosized SrCO <sub>3</sub> -based chemiluminescence sensor for ethanol. <i>Analytica Chimica Acta</i> , 2002, 466, 69-78.	2.6	91
49	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
50	Sub-100 nm Patterning of Supported Bilayers by Nanoshaving Lithography. <i>Journal of the American Chemical Society</i> , 2008, 130, 2718-2719.	6.6	88
51	Biomedical applications of mRNA nanomedicine. <i>Nano Research</i> , 2018, 11, 5281-5309.	5.8	86
52	Redox-Responsive Nanoparticle-Mediated Systemic RNAi for Effective Cancer Therapy. <i>Small</i> , 2018, 14, e1802565.	5.2	85
53	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
54	Peptide-Based Autophagic Gene and Cisplatin Co-delivery Systems Enable Improved Chemotherapy Resistance. <i>Nano Letters</i> , 2019, 19, 2968-2978.	4.5	81

#	ARTICLE	IF	CITATIONS
55	Orchestrated biomechanical, structural, and biochemical stimuli for engineering anisotropic meniscus. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	79
56	Nanobuffering of pH-Responsive Polymers: A Known but Sometimes Overlooked Phenomenon and Its Biological Applications. <i>ACS Nano</i> , 2019, 13, 4876-4882.	7.3	77
57	Hybrid lipid-polymer nanoparticles for sustained siRNA delivery and gene silencing. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e897-e900.	1.7	76
58	Multifunctional Fibers to Shape Future Biomedical Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1902834.	7.8	74
59	Theranostic near-infrared fluorescent nanoplatform for imaging and systemic siRNA delivery to metastatic anaplastic thyroid cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7750-7755.	3.3	73
60	The siRNAsome: A Cation-Free and Versatile Nanostructure for siRNA and Drug Co-delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4938-4942.	7.2	73
61	Targeted Nanotherapeutics Encapsulating Liver X Receptor Agonist GW3965 Enhance Antiatherogenic Effects without Adverse Effects on Hepatic Lipid Metabolism in <i>Ldlr</i> Mice. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700313.	3.9	63
62	Sugar-Nanocapsules Imprinted with Microbial Molecular Patterns for mRNA Vaccination. <i>Nano Letters</i> , 2020, 20, 1499-1509.	4.5	61
63	Impact of Hapten Presentation on Antibody Binding at Lipid Membrane Interfaces. <i>Biophysical Journal</i> , 2008, 94, 3094-3103.	0.2	59
64	Nanoparticles for Targeted and Temporally Controlled Drug Delivery. <i>Nanostructure Science and Technology</i> , 2012, , 9-29.	0.1	51
65	Porphyrim/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.	7.8	45
66	Oxidative-Species-Selective Materials for Diagnostic and Therapeutic Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9804-9827.	7.2	43
67	Structural Transformative Antioxidants for Dual-Responsive Anti-Inflammatory Delivery and Photoacoustic Inflammation Imaging. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14458-14466.	7.2	43
68	Dual Hypoxia-Targeting RNAi Nanomedicine for Precision Cancer Therapy. <i>Nano Letters</i> , 2020, 20, 4857-4863.	4.5	42
69	Determination of NH <sub>3</sub> gas by combination of nanosized LaCoO <sub>3</sub> converter with chemiluminescence detector. <i>Talanta</i> , 2003, 61, 157-164.	2.9	38
70	Site-Specific Biomimicry of Antioxidative Melanin Formation and Its Application for Acute Liver Injury Therapy and Imaging. <i>Advanced Materials</i> , 2021, 33, e2102391.	11.1	38
71	A Solvent-Free Thermosponge Nanoparticle Platform for Efficient Delivery of Labile Proteins. <i>Nano Letters</i> , 2014, 14, 6449-6455.	4.5	36
72	Intercalation-Driven Formation of siRNA Nanogels for Cancer Therapy. <i>Nano Letters</i> , 2021, 21, 9706-9714.	4.5	33

#	ARTICLE	IF	CITATIONS
73	Progress in siRNA Delivery Using Multifunctional Nanoparticles. <i>Methods in Molecular Biology</i> , 2010, 629, 53-67.	0.4	32
74	Chemotherapeutic drugâ€“DNA hybrid nanostructures for anti-tumor therapy. <i>Materials Horizons</i> , 2021, 8, 78-101.	6.4	31
75	Engineering Multifunctional RNAi Nanomedicine To Concurrently Target Cancer Hallmarks for Combinatorial Therapy. <i>Angewandte Chemie</i> , 2018, 130, 1526-1529.	1.6	29
76	Dopantâ€“Free Hydrogels with Intrinsic Photoluminescence and Biodegradable Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1802607.	7.8	29
77	Multiplexing Ligandâˆ“Receptor Binding Measurements by Chemically Patterning Microfluidic Channels. <i>Analytical Chemistry</i> , 2008, 80, 6078-6084.	3.2	27
78	Development of Therapeutic Polymeric Nanoparticles for the Resolution of Inflammation. <i>Advanced Healthcare Materials</i> , 2014, 3, 1448-1456.	3.9	26
79	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
80	Emerging Twoâ€“Dimensional Nanomaterials for Cancer Therapy. <i>ChemPhysChem</i> , 2019, 20, 2417-2433.	1.0	24
81	Targeted delivery of protein arginine deiminase-4 inhibitors to limit arterial intimal NETosis and preserve endothelial integrity. <i>Cardiovascular Research</i> , 2021, 117, 2652-2663.	1.8	24
82	ODC (Ornithine Decarboxylase)-Dependent Putrescine Synthesis Maintains MerTK (MER) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td ( Biology, 2021, 41, e144-e159.	1.1	23
83	The siRNAsome: A Cationâ€“Free and Versatile Nanostructure for siRNA and Drug Coâ€“delivery. <i>Angewandte Chemie</i> , 2019, 131, 4992-4996.	1.6	20
84	Two-Dimensional Nanosheet-Based Photonic Nanomedicine for Combined Gene and Photothermal Therapy. <i>Frontiers in Pharmacology</i> , 2019, 10, 1573.	1.6	20
85	Nanoparticles targeting extra domain B of fibronectin-specific to the atherosclerotic lesion types III, IV, and V-enhance plaque detection and cargo delivery. <i>Theranostics</i> , 2018, 8, 6008-6024.	4.6	19
86	Multistage Systemic and Cytosolic Protein Delivery for Effective Cancer Treatment. <i>Nano Letters</i> , 2022, 22, 111-118.	4.5	15
87	Prohibitin 1 regulates tumor cell apoptosis via the interaction with X-linked inhibitor of apoptosis protein. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 282-285.	1.5	14
88	Lipids and the Emerging RNA Medicines. <i>Chemical Reviews</i> , 2021, 121, 12109-12111.	23.0	14
89	Polymer- and Protein-Based Nanotechnologies for Cancer Theranostics. , 2014, , 419-436.		12
90	Optimized fluorodendrimer-incorporated hybrid lipidâ€“polymer nanoparticles for efficient siRNA delivery. <i>Biomaterials Science</i> , 2020, 8, 758-762.	2.6	12

#	ARTICLE	IF	CITATIONS
91	Lipidation Approaches Potentiate Adjuvant-Pulsed Immune Surveillance: A Design Rationale for Cancer Nanovaccine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 787.	2.0	11
92	Ultra- $\text{pH}$ -Responsive and Tumor-Penetrating Nanoplatfor for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. <i>Angewandte Chemie</i> , 2016, 128, 7207-7210.	1.6	10
93	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. <i>Angewandte Chemie</i> , 2016, 128, 3370-3373.	1.6	10
94	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
95	Materialien mit Selektivität für oxidative Molekülspezies für die Diagnostik und Therapie. <i>Angewandte Chemie</i> , 2021, 133, 9888-9912.	1.6	7
96	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
97	Structural Transformative Antioxidants for Dual-Responsive Anti-Inflammatory Delivery and Photoacoustic Inflammation Imaging. <i>Angewandte Chemie</i> , 2021, 133, 14579-14587.	1.6	4
98	Polymeric nanoparticles for RNA delivery. , 2023, , 555-573.		4
99	Transforming platelets into microrobots. <i>Science Robotics</i> , 2020, 5, .	9.9	3
100	Restoration of tumor suppression in vivo by systemic delivery of chemically-modified PTEN mRNA nanoparticles.. <i>Journal of Clinical Oncology</i> , 2017, 35, 11582-11582.	0.8	3
101	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
102	Artificial Photosynthesis: Porphyrin/SiO <sub>2</sub> /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
103	An ultra-long circulating nanoparticle for reviving a highly selective BCR-ABL inhibitor in long-term effective and safe treatment of chronic myeloid leukemia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102283.	1.7	1
104	Abstract 2896: Nanoparticle co-delivery of RNAi and chemotherapy for the treatment of drug-resistant cancers. , 2012, , .		0
105	Abstract 18: Prohibitin 1 regulates apoptosis via its interaction with XIAP. , 2015, , .		0
106	Abstract 1231: Restoration of tumor suppression in vivo by systemic delivery of PTEN mRNA nanoparticles. , 2017, , .		0