

# Jin-Jun Shi

## List of Publications by Year in descending order

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106  
papers

17,944  
citations

19657

61  
h-index

26613

107  
g-index

113  
all docs

113  
docs citations

113  
times ranked

24121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymeric nanoparticles for RNA delivery. , 2023, , 555-573.		4
2	Macrophage-targeted nanomedicine for the diagnosis and treatment of atherosclerosis. Nature Reviews Cardiology, 2022, 19, 228-249.	13.7	171
3	Combining p53 mRNA nanotherapy with immune checkpoint blockade reprograms the immune microenvironment for effective cancer therapy. Nature Communications, 2022, 13, 758.	12.8	94
4	Multistage Systemic and Cytosolic Protein Delivery for Effective Cancer Treatment. Nano Letters, 2022, 22, 111-118.	9.1	15
5	Nanodelivery of nucleic acids. Nature Reviews Methods Primers, 2022, 2, .	21.2	146
6	Oxidativeâ€¦Speciesâ€¦Selective Materials for Diagnostic and Therapeutic Applications. Angewandte Chemie - International Edition, 2021, 60, 9804-9827.	13.8	43
7	Materialien mit SelektivitÄt fÃ¼r oxidative MolekÃ¼lspezies fÃ¼r die Diagnostik und Therapie. Angewandte Chemie, 2021, 133, 9888-9912.	2.0	7
8	Adjuvant-pulsed mRNA vaccine nanoparticle for immunoprophylactic and therapeutic tumor suppression in mice. Biomaterials, 2021, 266, 120431.	11.4	131
9	Chemotherapeutic drugâ€¦DNA hybrid nanostructures for anti-tumor therapy. Materials Horizons, 2021, 8, 78-101.	12.2	31
10	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.	2.4	23
11	Targeted delivery of protein arginine deiminase-4 inhibitors to limit arterial intimal NETosis and preserve endothelial integrity. Cardiovascular Research, 2021, 117, 2652-2663.	3.8	24
12	Structural Transformative Antioxidants for Dualâ€¦Responsive Antiâ€¦Inflammatory Delivery and Photoacoustic Inflammation Imaging. Angewandte Chemie, 2021, 133, 14579-14587.	2.0	4
13	Structural Transformative Antioxidants for Dualâ€¦Responsive Antiâ€¦Inflammatory Delivery and Photoacoustic Inflammation Imaging. Angewandte Chemie - International Edition, 2021, 60, 14458-14466.	13.8	43
14	Reactivation of the tumor suppressor PTEN by mRNA nanoparticles enhances antitumor immunity in preclinical models. Science Translational Medicine, 2021, 13, .	12.4	111
15	Siteâ€¦Specific Biomimicry of Antioxidative Melanin Formation and Its Application for Acute Liver Injury Therapy and Imaging. Advanced Materials, 2021, 33, e2102391.	21.0	38
16	Lipids and the Emerging RNA Medicines. Chemical Reviews, 2021, 121, 12109-12111.	47.7	14
17	Intercalation-Driven Formation of siRNA Nanogels for Cancer Therapy. Nano Letters, 2021, 21, 9706-9714.	9.1	33
18	Efferocytosis induces macrophage proliferation to help resolve tissue injury. Cell Metabolism, 2021, 33, 2445-2463.e8.	16.2	98

#	ARTICLE	IF	CITATIONS
19	RNA Nanotechnology-Mediated Cancer Immunotherapy. <i>Theranostics</i> , 2020, 10, 281-299.	10.0	100
20	Optimized fluorodendrimer-incorporated hybrid lipid-polymer nanoparticles for efficient siRNA delivery. <i>Biomaterials Science</i> , 2020, 8, 758-762.	5.4	12
21	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.	3.3	1
22	siRNA nanoparticles targeting CaMKII $\beta$ in lesional macrophages improve atherosclerotic plaque stability in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	132
23	Lipidation Approaches Potentiate Adjuvant-Pulsed Immune Surveillance: A Design Rationale for Cancer Nanovaccine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 787.	4.1	11
24	Dual Hypoxia-Targeting RNAi Nanomedicine for Precision Cancer Therapy. <i>Nano Letters</i> , 2020, 20, 4857-4863.	9.1	42
25	Transforming platelets into microrobots. <i>Science Robotics</i> , 2020, 5, .	17.6	3
26	Sugar-Nanocapsules Imprinted with Microbial Molecular Patterns for mRNA Vaccination. <i>Nano Letters</i> , 2020, 20, 1499-1509.	9.1	61
27	Multifunctional Fibers to Shape Future Biomedical Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1902834.	14.9	74
28	Emerging Two-Dimensional Nanomaterials for Cancer Therapy. <i>ChemPhysChem</i> , 2019, 20, 2417-2433.	2.1	24
29	Biomimetic Nanosilica-Collagen Scaffolds for In Situ Bone Regeneration: Toward a Cell-Free, One-Step Surgery. <i>Advanced Materials</i> , 2019, 31, e1904341.	21.0	134
30	Antioxidative nanomaterials and biomedical applications. <i>Nano Today</i> , 2019, 27, 146-177.	11.9	116
31	The siRNAsome: A Cation-Free and Versatile Nanostructure for siRNA and Drug Co-delivery. <i>Angewandte Chemie</i> , 2019, 131, 4992-4996.	2.0	20
32	Orchestrated biomechanical, structural, and biochemical stimuli for engineering anisotropic meniscus. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	79
33	Nanobuffering of pH-Responsive Polymers: A Known but Sometimes Overlooked Phenomenon and Its Biological Applications. <i>ACS Nano</i> , 2019, 13, 4876-4882.	14.6	77
34	Peptide-Based Autophagic Gene and Cisplatin Co-delivery Systems Enable Improved Chemotherapy Resistance. <i>Nano Letters</i> , 2019, 19, 2968-2978.	9.1	81
35	The siRNAsome: A Cation-Free and Versatile Nanostructure for siRNA and Drug Co-delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4938-4942.	13.8	73
36	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

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37	Two-Dimensional Nanosheet-Based Photonic Nanomedicine for Combined Gene and Photothermal Therapy. <i>Frontiers in Pharmacology</i> , 2019, 10, 1573.	3.5	20
38	Artificial Photosynthesis: Porphyrin/SiO <sub>2</sub> /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870061.	14.9	1
39	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
40	Engineering Multifunctional RNAi Nanomedicine To Concurrently Target Cancer Hallmarks for Combinatorial Therapy. <i>Angewandte Chemie</i> , 2018, 130, 1526-1529.	2.0	29
41	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
42	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.	10.0	19
43	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.	11.2	26
44	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. <i>Nature Biomedical Engineering</i> , 2018, 2, 850-864.	22.5	214
45	Redox-Responsive Nanoparticle-Mediated Systemic RNAi for Effective Cancer Therapy. <i>Small</i> , 2018, 14, e1802565.	10.0	85
46	Cancer Theranostics: A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy (Adv. Mater. 36/2018). <i>Advanced Materials</i> , 2018, 30, 1870268.	21.0	4
47	Dopant-Free Hydrogels with Intrinsic Photoluminescence and Biodegradable Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1802607.	14.9	29
48	Biomedical applications of mRNA nanomedicine. <i>Nano Research</i> , 2018, 11, 5281-5309.	10.4	86
49	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
50	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.	9.1	173
51	Black Phosphorus: Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics (Adv. Mater. 1/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	10
52	Multifunctional Envelope-Type siRNA Delivery Nanoparticle Platform for Prostate Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 2618-2627.	14.6	172
53	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.	13.8	465
54	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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55	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie</i> , 2017, 129, 12058-12062.	2.0	93
56	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
57	Tantalum Sulfide Nanosheets as a Theranostic Nanoplatfrom for Computed Tomography Imaging-Guided Combinatorial Chemo-Photothermal Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1703261.	14.9	89
58	Targeted Nanotherapeutics Encapsulating Liver X Receptor Agonist GW3965 Enhance Antiatherogenic Effects without Adverse Effects on Hepatic Lipid Metabolism in <i>Ldlr</i> <sup>-/-</sup> Mice. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700313.	7.6	63
59	ROS-Responsive Polyprodrug Nanoparticles for Triggered Drug Delivery and Effective Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1700141.	21.0	370
60	Inntitelbild: 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.	2.0	1
61	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. <i>Advanced Materials</i> , 2017, 29, 1603276.	21.0	721
62	Cancer nanomedicine: progress, challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 20-37.	28.4	4,153
63	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
64	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.	1.6	3
65	Abstract 1231: Restoration of tumor suppression in vivo by systemic delivery of PTEN mRNA nanoparticles. , 2017, , .		0
66	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3309-3312.	13.8	121
67	Ultra-Responsive and Tumor-Penetrating Nanoplatfrom for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7091-7094.	13.8	216
68	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.	3.3	14
69	Ultra-Responsive and Tumor-Penetrating Nanoplatfrom for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. <i>Angewandte Chemie</i> , 2016, 128, 7207-7210.	2.0	10
70	Theranostic near-infrared fluorescent nanoplatfrom 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.	7.1	73
71	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. <i>Angewandte Chemie</i> , 2016, 128, 3370-3373.	2.0	10
72	Nanotechnology for protein delivery: Overview and perspectives. <i>Journal of Controlled Release</i> , 2016, 240, 24-37.	9.9	294

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73	Hydrophobic Cysteine Poly(disulfide)-based Redox-Hypersensitive Nanoparticle Platform for Cancer Theranostics. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9218-9223.	13.8	164
74	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.	7.1	170
75	A mucosal vaccine against <i>Chlamydia trachomatis</i> generates two waves of protective memory T cells. <i>Science</i> , 2015, 348, aaa8205.	12.6	312
76	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	14.6	279
77	Biomaterials for mRNA delivery. <i>Biomaterials Science</i> , 2015, 3, 1519-1533.	5.4	143
78	Abstract 18: Prohibitin 1 regulates apoptosis via its interaction with XIAP. , 2015, , .		0
79	Development of Therapeutic Polymeric Nanoparticles for the Resolution of Inflammation. <i>Advanced Healthcare Materials</i> , 2014, 3, 1448-1456.	7.6	26
80	A Solvent-Free Thermosponge Nanoparticle Platform for Efficient Delivery of Labile Proteins. <i>Nano Letters</i> , 2014, 14, 6449-6455.	9.1	36
81	Nanomedicine in the management of microbial infection – Overview and perspectives. <i>Nano Today</i> , 2014, 9, 478-498.	11.9	286
82	Development of Multinuclear Polymeric Nanoparticles as Robust Protein Nanocarriers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8975-8979.	13.8	122
83	Polymer- and Protein-Based Nanotechnologies for Cancer Theranostics. , 2014, , 419-436.		12
84	Insight into nanoparticle cellular uptake and intracellular targeting. <i>Journal of Controlled Release</i> , 2014, 190, 485-499.	9.9	624
85	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.	7.1	234
86	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.	3.8	144
87	Hybrid lipid-polymer nanoparticles for sustained siRNA delivery and gene silencing. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e897-e900.	3.3	76
88	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.	7.1	302
89	Engineering of Targeted Nanoparticles for Cancer Therapy Using Internalizing Aptamers Isolated by Cell-Uptake Selection. <i>ACS Nano</i> , 2012, 6, 696-704.	14.6	148
90	DNA Self-Assembly of Targeted Near-Infrared-Responsive Gold Nanoparticles for Cancer Thermo-Chemotherapy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11853-11857.	13.8	299

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91	Nanoparticles for Targeted and Temporally Controlled Drug Delivery. Nanostructure Science and Technology, 2012, , 9-29.	0.1	51
92	Abstract 2896: Nanoparticle co-delivery of RNAi and chemotherapy for the treatment of drug-resistant cancers. , 2012, , .		0
93	Self-Assembled Targeted Nanoparticles: Evolution of Technologies and Bench to Bedside Translation. Accounts of Chemical Research, 2011, 44, 1123-1134.	15.6	416
94	Differentially Charged Hollow Core/Shell Lipidâ€“Polymerâ€“Lipid Hybrid Nanoparticles for Small Interfering RNA Delivery. Angewandte Chemie - International Edition, 2011, 50, 7027-7031.	13.8	156
95	Progress in siRNA Delivery Using Multifunctional Nanoparticles. Methods in Molecular Biology, 2010, 629, 53-67.	0.9	32
96	Emerging nanotechnology approaches for HIV/AIDS treatment and prevention. Nanomedicine, 2010, 5, 269-285.	3.3	201
97	Nanotechnology in Drug Delivery and Tissue Engineering: From Discovery to Applications. Nano Letters, 2010, 10, 3223-3230.	9.1	1,369
98	Impact of Hapten Presentation on Antibody Binding at Lipid Membrane Interfaces. Biophysical Journal, 2008, 94, 3094-3103.	0.5	59
99	Multiplexing Ligandâ€“Receptor Binding Measurements by Chemically Patterning Microfluidic Channels. Analytical Chemistry, 2008, 80, 6078-6084.	6.5	27
100	Sub-100 nm Patterning of Supported Bilayers by Nanoshaving Lithography. Journal of the American Chemical Society, 2008, 130, 2718-2719.	13.7	88
101	GM1Clustering Inhibits Cholera Toxin Binding in Supported Phospholipid Membranes. Journal of the American Chemical Society, 2007, 129, 5954-5961.	13.7	175
102	Recent developments in nanomaterial optical sensors. TrAC - Trends in Analytical Chemistry, 2004, 23, 351-360.	11.4	170
103	Determination of NH3 gas by combination of nanosized LaCoO3 converter with chemiluminescence detector. Talanta, 2003, 61, 157-164.	5.5	38
104	Development of a Gas Sensor Utilizing Chemiluminescence on Nanosized Titanium Dioxide. Analytical Chemistry, 2002, 74, 120-124.	6.5	332
105	Application of the Biological Conjugate between Antibody and Colloid Au Nanoparticles as Analyte to Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2002, 74, 96-99.	6.5	240
106	Nanosized SrCO3-based chemiluminescence sensor for ethanol. Analytica Chimica Acta, 2002, 466, 69-78.	5.4	91