

Xu Zhen

List of Publications by Year in descending order

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69
papers

10,252
citations

47006

47
h-index

88630

70
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70
all docs

70
docs citations

70
times ranked

8969
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of the molecular packing on the room temperature phosphorescence of purely organic luminogens. <i>Nature Communications</i> , 2018, 9, 840.	12.8	764
2	Molecular afterglow imaging with bright, biodegradable polymer nanoparticles. <i>Nature Biotechnology</i> , 2017, 35, 1102-1110.	17.5	753
3	Dual-Peak Absorbing Semiconducting Copolymer Nanoparticles for First and Second Near-Infrared Window Photothermal Therapy: A Comparative Study. <i>Advanced Materials</i> , 2018, 30, e1705980.	21.0	489
4	Intraparticle Molecular Orbital Engineering of Semiconducting Polymer Nanoparticles as Amplified Theranostics for <i>In Vivo</i> Photoacoustic Imaging and Photothermal Therapy. <i>ACS Nano</i> , 2016, 10, 4472-4481.	14.6	466
5	Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for <i>In Vivo</i> Afterglow Imaging. <i>Advanced Materials</i> , 2017, 29, 1606665.	21.0	419
6	Light-driven liquid metal nanotransformers for biomedical theranostics. <i>Nature Communications</i> , 2017, 8, 15432.	12.8	327
7	Recent Advances in Cell Membrane-Camouflaged Nanoparticles for Cancer Phototherapy. <i>Small</i> , 2019, 15, e1804105.	10.0	327
8	Cell Membrane Coated Semiconducting Polymer Nanoparticles for Enhanced Multimodal Cancer Phototheranostics. <i>ACS Nano</i> , 2018, 12, 8520-8530.	14.6	305
9	Enhancing Both Biodegradability and Efficacy of Semiconducting Polymer Nanoparticles for Photoacoustic Imaging and Photothermal Therapy. <i>ACS Nano</i> , 2018, 12, 1801-1810.	14.6	299
10	Macrotheranostic Probe with Disease-Activated Near-Infrared Fluorescence, Photoacoustic, and Photothermal Signals for Imaging-Guided Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7804-7808.	13.8	296
11	Compact Plasmonic Blackbody for Cancer Theranosis in the Near-Infrared II Window. <i>ACS Nano</i> , 2018, 12, 2643-2651.	14.6	294
12	A Semiconducting Polymer Nano-prodrug for Hypoxia-Activated Photodynamic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5920-5924.	13.8	289
13	Intraparticle Energy Level Alignment of Semiconducting Polymer Nanoparticles to Amplify Chemiluminescence for Ultrasensitive <i>In Vivo</i> Imaging of Reactive Oxygen Species. <i>ACS Nano</i> , 2016, 10, 6400-6409.	14.6	288
14	Metabolizable Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging. <i>Advanced Materials</i> , 2019, 31, e1808166.	21.0	288
15	Temperature-Correlated Afterglow of a Semiconducting Polymer Nanococktail for Imaging-Guided Photothermal Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3938-3942.	13.8	251
16	Activatable Photoacoustic Nanoprobes for <i>In Vivo</i> Ratiometric Imaging of Peroxynitrite. <i>Advanced Materials</i> , 2017, 29, 1604764.	21.0	220
17	A generic approach towards afterglow luminescent nanoparticles for ultrasensitive <i>in vivo</i> imaging. <i>Nature Communications</i> , 2019, 10, 2064.	12.8	210
18	Degradable Semiconducting Oligomer Amphiphile for Ratiometric Photoacoustic Imaging of Hypochlorite. <i>ACS Nano</i> , 2017, 11, 4174-4182.	14.6	202

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19	Doxorubicin delivery to 3D multicellular spheroids and tumors based on boronic acid-rich chitosan nanoparticles. <i>Biomaterials</i> , 2013, 34, 4667-4679.	11.4	195
20	Semiconducting Photothermal Nanoagonist for Remote-Controlled Specific Cancer Therapy. <i>Nano Letters</i> , 2018, 18, 1498-1505.	9.1	183
21	Photoacoustic Imaging and Photothermal Therapy of Semiconducting Polymer Nanoparticles: Signal Amplification and Second Near-Infrared Construction. <i>Small</i> , 2021, 17, e2004723.	10.0	168
22	Self-Assembled Semiconducting Polymer Nanoparticles for Ultrasensitive Near-Infrared Afterglow Imaging of Metastatic Tumors. <i>Advanced Materials</i> , 2018, 30, e1801331.	21.0	158
23	Amphiphilic semiconducting polymer as multifunctional nanocarrier for fluorescence/photoacoustic imaging guided chemo-photothermal therapy. <i>Biomaterials</i> , 2017, 145, 168-177.	11.4	155
24	Redox-Activatable and Acid-Enhanced Nanotheranostics for Second Near-Infrared Photoacoustic Tomography and Combined Photothermal Tumor Therapy. <i>ACS Nano</i> , 2019, 13, 5816-5825.	14.6	154
25	A Dual-Modal Molecular Probe for Near-Infrared Fluorescence and Photoacoustic Imaging of Peroxynitrite. <i>Analytical Chemistry</i> , 2018, 90, 9301-9307.	6.5	152
26	Self-quenched semiconducting polymer nanoparticles for amplified in vivo photoacoustic imaging. <i>Biomaterials</i> , 2017, 119, 1-8.	11.4	151
27	Reaction-Based Semiconducting Polymer Nanoprobes for Photoacoustic Imaging of Protein Sulfenic Acids. <i>ACS Nano</i> , 2017, 11, 358-367.	14.6	145
28	Nanoparticle Regrowth Enhances Photoacoustic Signals of Semiconducting Macromolecular Probe for In Vivo Imaging. <i>Advanced Materials</i> , 2017, 29, 1703693.	21.0	145
29	Cellular uptake, antitumor response and tumor penetration of cisplatin-loaded milk protein nanoparticles. <i>Biomaterials</i> , 2013, 34, 1372-1382.	11.4	123
30	Surface engineering of semiconducting polymer nanoparticles for amplified photoacoustic imaging. <i>Biomaterials</i> , 2017, 127, 97-106.	11.4	119
31	Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1605397.	14.9	118
32	Multilayered semiconducting polymer nanoparticles with enhanced NIR fluorescence for molecular imaging in cells, zebrafish and mice. <i>Chemical Science</i> , 2016, 7, 5118-5125.	7.4	113
33	The effect of hydrophilic chain length and iRGD on drug delivery from poly(μ -caprolactone)-poly(N-vinylpyrrolidone) nanoparticles. <i>Biomaterials</i> , 2011, 32, 9525-9535.	11.4	110
34	Facile Preparation of Paclitaxel Loaded Silk Fibroin Nanoparticles for Enhanced Antitumor Efficacy by Locoregional Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12638-12645.	8.0	96
35	Delivery of platinum(IV) drug to subcutaneous tumor and lung metastasis using bradykinin-potentiating peptide-decorated chitosan nanoparticles. <i>Biomaterials</i> , 2014, 35, 6439-6453.	11.4	93
36	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	8.2	85

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37	Synthesis of Paclitaxel- β -Cyclodextrin Polyrotaxane and Its Antitumor Activity. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7272-7277.	13.8	83
38	Ternary Chalcogenide Nanosheets with Ultrahigh Photothermal Conversion Efficiency for Photoacoustic Theranostics. <i>Small</i> , 2017, 13, 1604139.	10.0	83
39	Macrotheranostic Probe with Disease-Activated Near-Infrared Fluorescence, Photoacoustic, and Photothermal Signals for Imaging-Guided Therapy. <i>Angewandte Chemie</i> , 2018, 130, 7930-7934.	2.0	79
40	Mobile Phone Flashlight-Excited Red Afterglow Bioimaging. <i>Advanced Materials</i> , 2022, 34, e2201280.	21.0	79
41	The development of phosphorescent probes for <i>in vitro</i> and <i>in vivo</i> bioimaging. <i>Biomaterials Science</i> , 2021, 9, 285-300.	5.4	74
42	Amphiphilic Semiconducting Oligomer for Near-Infrared Photoacoustic and Fluorescence Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12332-12339.	8.0	72
43	pH-sensitive and biodegradable charge-transfer nanocomplex for second near-infrared photoacoustic tumor imaging. <i>Nano Research</i> , 2019, 12, 49-55.	10.4	70
44	Enhancing Penetration Ability of Semiconducting Polymer Nanoparticles for Sonodynamic Therapy of Large Solid Tumor. <i>Advanced Science</i> , 2022, 9, e2104125.	11.2	68
45	Temperature-Related Afterglow of a Semiconducting Polymer Nanococktail for Imaging-Guided Photothermal Therapy. <i>Angewandte Chemie</i> , 2018, 130, 4002-4006.	2.0	66
46	Chemically treated carbon black waste and its potential applications. <i>Journal of Hazardous Materials</i> , 2017, 321, 62-72.	12.4	53
47	Thermoresponsive Semiconducting Polymer Nanoparticles for Contrast-Enhanced Photoacoustic Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1903461.	14.9	53
48	Alginate Nanoparticles Prepared through Counterion Complexation Method as a Drug Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5325-5332.	8.0	47
49	A Semiconducting Polymer Nano-prodrug for Hypoxia-Activated Photodynamic Cancer Therapy. <i>Angewandte Chemie</i> , 2019, 131, 5981-5985.	2.0	43
50	Responsive boron biomaterials and their biomedical applications. <i>Science China Chemistry</i> , 2020, 63, 648-664.	8.2	43
51	Near-infrared absorbing amphiphilic semiconducting polymers for photoacoustic imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4406-4409.	5.8	40
52	Development of optical nanoprobe for molecular imaging of reactive oxygen and nitrogen species. <i>Nano Research</i> , 2018, 11, 5258-5280.	10.4	39
53	Targeting and microenvironment-improving of phenylboronic acid-decorated soy protein nanoparticles with different sizes to tumor. <i>Theranostics</i> , 2019, 9, 7417-7430.	10.0	36
54	Immune-regulating bimetallic metal-organic framework nanoparticles designed for cancer immunotherapy. <i>Biomaterials</i> , 2022, 280, 121261.	11.4	29

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55	Toxicity assessment of carbon black waste: A by-product from oil refineries. <i>Journal of Hazardous Materials</i> , 2017, 321, 600-610.	12.4	28
56	Emerging Designs of Aggregation-Induced Emission Agents for Enhanced Phototherapy Applications. <i>CCS Chemistry</i> , 2022, 4, 401-419.	7.8	28
57	Cellular entry fashion of hollow milk protein spheres. <i>Soft Matter</i> , 2011, 7, 11526.	2.7	27
58	Activatable Semiconducting Oligomer Amphiphile for Near-Infrared Luminescence Imaging of Biothiols. <i>ACS Applied Bio Materials</i> , 2018, 1, 1147-1153.	4.6	23
59	Development of mesoporous silica-based nanoprobe for optical bioimaging applications. <i>Biomaterials Science</i> , 2021, 9, 3603-3620.	5.4	23
60	Responsive hyaluronic acid-gold cluster hybrid nanogel theranostic systems. <i>Biomaterials Science</i> , 2021, 9, 1363-1373.	5.4	19
61	A Sub-6 nm MnFe ₂ O ₄ -dichloroacetic acid nanocomposite modulates tumor metabolism and catabolism for reversing tumor immunosuppressive microenvironment and boosting immunotherapy. <i>Biomaterials</i> , 2022, 284, 121533.	11.4	19
62	Polymer-based activatable optical probes for tumor fluorescence and photoacoustic imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1593.	6.1	17
63	Rapid toxicity screening of gasification ashes. <i>Waste Management</i> , 2016, 50, 93-104.	7.4	16
64	Ultralong blue room-temperature phosphorescence by cycloalkyl engineering. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1606-1614.	5.9	15
65	Synthesis, Cellular Uptake, and Biodistribution of Whey-Rich Nanoparticles. <i>Macromolecular Bioscience</i> , 2014, 14, 1149-1159.	4.1	9
66	Nanoprobes: Activatable Photoacoustic Nanoprobes for In Vivo Ratiometric Imaging of Peroxynitrite (Adv. Mater. 6/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	4
67	Cancer Phototherapy: Recent Advances in Cell Membrane-Camouflaged Nanoparticles for Cancer Phototherapy (Small 1/2019). <i>Small</i> , 2019, 15, 1970002.	10.0	4
68	Photoacoustic Imaging: Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging (Adv. Funct. Mater. 8/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	2
69	Organic Nanoparticles: Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for In Vivo Afterglow Imaging (Adv. Mater. 33/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1