Xu Zhen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	7,427 citations	42 h-index	70 g-index
70 ext. papers	8,813 ext. citations	13.7 avg, IF	6.65 L-index

#	Paper	IF	Citations
69	Molecular afterglow imaging with bright, biodegradable polymer nanoparticles. *Nature Biotechnology*, **2017**, 35, 1102-1110	44.5	571
68	The influence of the molecular packing on the room temperature phosphorescence of purely organic luminogens. *Nature Communications*, **2018**, 9, 840	17.4	509
67	Intraparticle Molecular Orbital Engineering of Semiconducting Polymer Nanoparticles as Amplified Theranostics for in Vivo Photoacoustic Imaging and Photothermal Therapy. *ACS Nano*, **2016**, 10, 4472-81	16.7	389
66	Dual-Peak Absorbing Semiconducting Copolymer Nanoparticles for First and Second Near-Infrared Window Photothermal Therapy: A Comparative Study. *Advanced Materials*, **2018**, 30, e1705980	24	371
65	Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for In Vivo Afterglow Imaging. *Advanced Materials*, **2017**, 29, 1606665	24	259
64	Enhancing Both Biodegradability and Efficacy of Semiconducting Polymer Nanoparticles for Photoacoustic Imaging and Photothermal Therapy. *ACS Nano*, **2018**, 12, 1801-1810	16.7	232
63	Intraparticle Energy Level Alignment of Semiconducting Polymer Nanoparticles to Amplify Chemiluminescence for Ultrasensitive In Vivo Imaging of Reactive Oxygen Species. *ACS Nano*, **2016**, 10, 6400-9	16.7	228
62	Metabolizable Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging. *Advanced Materials*, **2019**, 31, e1808166	24	226
61	Macrotheranostic Probe with Disease-Activated Near-Infrared Fluorescence, Photoacoustic, and Photothermal Signals for Imaging-Guided Therapy. *Angewandte Chemie - International Edition*, **2018**, 57, 7804-7808	16.4	223
60	Cell Membrane Coated Semiconducting Polymer Nanoparticles for Enhanced Multimodal Cancer Phototheranostics. *ACS Nano*, **2018**, 12, 8520-8530	16.7	215
59	Light-driven liquid metal nanotransformers for biomedical theranostics. *Nature Communications*, **2017**, 8, 15432	17.4	214
58	Compact Plasmonic Blackbody for Cancer Theranosis in the Near-Infrared II Window. *ACS Nano*, **2018**, 12, 2643-2651	16.7	209
57	A Semiconducting Polymer Nano-prodrug for Hypoxia-Activated Photodynamic Cancer Therapy. *Angewandte Chemie - International Edition*, **2019**, 58, 5920-5924	16.4	208
56	Recent Advances in Cell Membrane-Camouflaged Nanoparticles for Cancer Phototherapy. *Small*, **2019**, 15, e1804105	11	200
55	Activatable Photoacoustic Nanoprobes for In Vivo Ratiometric Imaging of Peroxynitrite. *Advanced Materials*, **2017**, 29, 1604764	24	194
54	Temperature-Correlated Afterglow of a Semiconducting Polymer Nanococktail for Imaging-Guided Photothermal Therapy. *Angewandte Chemie - International Edition*, **2018**, 57, 3938-3942	16.4	190
53	Doxorubicin delivery to 3D multicellular spheroids and tumors based on boronic acid-rich chitosan nanoparticles. *Biomaterials*, **2013**, 34, 4667-79	15.6	176

52	Degradable Semiconducting Oligomer Amphiphile for Ratiometric Photoacoustic Imaging of Hypochlorite. *ACS Nano*, **2017**, 11, 4174-4182	16.7	168
51	Semiconducting Photothermal Nanoagonist for Remote-Controlled Specific Cancer Therapy. *Nano Letters*, **2018**, 18, 1498-1505	11.5	138
50	Self-quenched semiconducting polymer nanoparticles for amplified in vivo photoacoustic imaging. *Biomaterials*, **2017**, 119, 1-8	15.6	136
49	Amphiphilic semiconducting polymer as multifunctional nanocarrier for fluorescence/photoacoustic imaging guided chemo-photothermal therapy. *Biomaterials*, **2017**, 145, 168-177	15.6	135
48	Reaction-Based Semiconducting Polymer Nanoprobes for Photoacoustic Imaging of Protein Sulfenic Acids. *ACS Nano*, **2017**, 11, 358-367	16.7	131
47	A generic approach towards afterglow luminescent nanoparticles for ultrasensitive in vivo imaging. *Nature Communications*, **2019**, 10, 2064	17.4	127
46	Nanoparticle Regrowth Enhances Photoacoustic Signals of Semiconducting Macromolecular Probe for In Vivo Imaging. *Advanced Materials*, **2017**, 29, 1703693	24	126
45	Self-Assembled Semiconducting Polymer Nanoparticles for Ultrasensitive Near-Infrared Afterglow Imaging of Metastatic Tumors. *Advanced Materials*, **2018**, 30, e1801331	24	116
44	Redox-Activatable and Acid-Enhanced Nanotheranostics for Second Near-Infrared Photoacoustic Tomography and Combined Photothermal Tumor Therapy. *ACS Nano*, **2019**, 13, 5816-5825	16.7	108
43	Cellular uptake, antitumor response and tumor penetration of cisplatin-loaded milk protein nanoparticles. *Biomaterials*, **2013**, 34, 1372-82	15.6	106
42	Surface engineering of semiconducting polymer nanoparticles for amplified photoacoustic imaging. *Biomaterials*, **2017**, 127, 97-106	15.6	105
41	Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging. *Advanced Functional Materials*, **2017**, 27, 1605397	15.6	102
40	A Dual-Modal Molecular Probe for Near-Infrared Fluorescence and Photoacoustic Imaging of Peroxynitrite. *Analytical Chemistry*, **2018**, 90, 9301-9307	7.8	102
39	The effect of hydrophilic chain length and iRGD on drug delivery from poly(ε-caprolactone)-poly(N-vinylpyrrolidone) nanoparticles. *Biomaterials*, **2011**, 32, 9525-35	15.6	101
38	Multilayered semiconducting polymer nanoparticles with enhanced NIR fluorescence for molecular imaging in cells, zebrafish and mice. *Chemical Science*, **2016**, 7, 5118-5125	9.4	97
37	Delivery of platinum(IV) drug to subcutaneous tumor and lung metastasis using bradykinin-potentiating peptide-decorated chitosan nanoparticles. *Biomaterials*, **2014**, 35, 6439-53	15.6	80
36	Facile preparation of paclitaxel loaded silk fibroin nanoparticles for enhanced antitumor efficacy by locoregional drug delivery. *ACS Applied Materials & Interfaces*, **2013**, 5, 12638-45	9.5	75
35	Synthesis of paclitaxel-conjugated β-cyclodextrin polyrotaxane and its antitumor activity. *Angewandte Chemie - International Edition*, **2013**, 52, 7272-7	16.4	71

34	Ternary Chalcogenide Nanosheets with Ultrahigh Photothermal Conversion Efficiency for Photoacoustic Theranostics. *Small*, **2017**, 13, 1604139	11	63
33	Amphiphilic Semiconducting Oligomer for Near-Infrared Photoacoustic and Fluorescence Imaging. *ACS Applied Materials & Interfaces*, **2017**, 9, 12332-12339	9.5	61
32	Photoacoustic Imaging and Photothermal Therapy of Semiconducting Polymer Nanoparticles: Signal Amplification and Second Near-Infrared Construction. *Small*, **2021**, 17, e2004723	11	61
31	Macrotheranostic Probe with Disease-Activated Near-Infrared Fluorescence, Photoacoustic, and Photothermal Signals for Imaging-Guided Therapy. *Angewandte Chemie*, **2018**, 130, 7930-7934	3.6	60
30	pH-sensitive and biodegradable charge-transfer nanocomplex for second near-infrared photoacoustic tumor imaging. *Nano Research*, **2019**, 12, 49-55	10	53
29	Temperature-Correlated Afterglow of a Semiconducting Polymer Nanococktail for Imaging-Guided Photothermal Therapy. *Angewandte Chemie*, **2018**, 130, 4002-4006	3.6	49
28	Thermoresponsive Semiconducting Polymer Nanoparticles for Contrast-Enhanced Photoacoustic Imaging. *Advanced Functional Materials*, **2019**, 29, 1903461	15.6	43
27	Alginic acid nanoparticles prepared through counterion complexation method as a drug delivery system. *ACS Applied Materials & Interfaces*, **2012**, 4, 5325-32	9.5	41
26	Chemically treated carbon black waste and its potential applications. *Journal of Hazardous Materials*, **2017**, 321, 62-72	12.8	40
25	Near-infrared absorbing amphiphilic semiconducting polymers for photoacoustic imaging. *Journal of Materials Chemistry B*, **2017**, 5, 4406-4409	7.3	33
24	The development of phosphorescent probes for and bioimaging. *Biomaterials Science*, **2021**, 9, 285-300	7.4	33
23	Development of optical nanoprobes for molecular imaging of reactive oxygen and nitrogen species. *Nano Research*, **2018**, 11, 5258-5280	10	28
22	A Semiconducting Polymer Nano-prodrug for Hypoxia-Activated Photodynamic Cancer Therapy. *Angewandte Chemie*, **2019**, 131, 5981-5985	3.6	25
21	Cellular entry fashion of hollow milk protein spheres. *Soft Matter*, **2011**, 7, 11526	3.6	25
20	Responsive boron biomaterials and their biomedical applications. *Science China Chemistry*, **2020**, 63, 648-664	7.3	23
19	Targeting and microenvironment-improving of phenylboronic acid-decorated soy protein nanoparticles with different sizes to tumor. *Theranostics*, **2019**, 9, 7417-7430	12.1	21
18	Toxicity assessment of carbon black waste: A by-product from oil refineries. *Journal of Hazardous Materials*, **2017**, 321, 600-610	12.8	21
17	Activatable Semiconducting Oligomer Amphiphile for Near-Infrared Luminescence Imaging of Biothiols.. *ACS Applied Bio Materials*, **2018**, 1, 1147-1153	4.1	18

16	Rapid toxicity screening of gasification ashes. *Waste Management*, **2016**, 50, 93-104	8.6	15
15	Polymer-based activatable optical probes for tumor fluorescence and photoacoustic imaging. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2020**, 12, e1593	9.2	12
14	Biomedical polymers: synthesis, properties, and applications.. *Science China Chemistry*, **2022**, 1-66	7.9	11
13	Synthesis of Paclitaxel-Conjugated β-Cyclodextrin Polyrotaxane and Its Antitumor Activity. *Angewandte Chemie*, **2013**, 125, 7413-7418	3.6	9
12	Synthesis, cellular uptake, and biodistribution of whey-rich nanoparticles. *Macromolecular Bioscience*, **2014**, 14, 1149-59	5.5	7
11	Development of mesoporous silica-based nanoprobes for optical bioimaging applications. *Biomaterials Science*, **2021**, 9, 3603-3620	7.4	7
10	Enhancing Penetration Ability of Semiconducting Polymer Nanoparticles for Sonodynamic Therapy of Large Solid Tumor.. *Advanced Science*, **2022**, e2104125	13.6	6
9	Responsive hyaluronic acid-gold cluster hybrid nanogel theranostic systems. *Biomaterials Science*, **2021**, 9, 1363-1373	7.4	6
8	Nanoprobes: Activatable Photoacoustic Nanoprobes for In Vivo Ratiometric Imaging of Peroxynitrite (Adv. Mater. 6/2017). *Advanced Materials*, **2017**, 29,	24	4
7	Immune-regulating bimetallic metal-organic framework nanoparticles designed for cancer immunotherapy. *Biomaterials*, **2021**, 280, 121261	15.6	4
6	Photoacoustic Imaging: Self-Assembly of Semiconducting Polymer Amphiphiles for In Vivo Photoacoustic Imaging (Adv. Funct. Mater. 8/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	2
5	Emerging Designs of Aggregation-Induced Emission Agents for Enhanced Phototherapy Applications. *CCS Chemistry*,2950-2968	7.2	2
4	Mobile Phone Flashlight Excited Red Afterglow Bioimaging.. *Advanced Materials*, **2022**, e2201280	24	2
3	Organic Nanoparticles: Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for In Vivo Afterglow Imaging (Adv. Mater. 33/2017). *Advanced Materials*, **2017**, 29,	24	1
2	Cancer Phototherapy: Recent Advances in Cell Membrane-Camouflaged Nanoparticles for Cancer Phototherapy (Small 1/2019). *Small*, **2019**, 15, 1970002	11	1
1	A Sub-6 nm MnFeO-dichloroacetic acid nanocomposite modulates tumor metabolism and catabolism for reversing tumor immunosuppressive microenvironment and boosting immunotherapy.. *Biomaterials*, **2022**, 284, 121533	15.6	1