Shidang Xu

List of Publications by Year in Descending Order

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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.

60 papers	4,480 citations	35 h-index	64 g-index
64 ext. papers	5,711 ext. citations	12.9 avg, IF	6.15 L-index

#	Paper	IF	Citations
60	Self-Improving Photosensitizer Discovery System via Bayesian Search with First-Principle Simulations. *Journal of the American Chemical Society*, **2021**, 143, 19769-19777	16.4	2
59	Cationization to boost both type I and type II ROS generation for photodynamic therapy. *Biomaterials*, **2021**, 280, 121255	15.6	6
58	Machine-Learning-Assisted Accurate Prediction of Molecular Optical Properties upon Aggregation. *Advanced Science*, **2021**, 9, e2101074	13.6	4
57	Stereoisomerization during Molecular Packing. *Advanced Materials*, **2021**, 33, e2100986	24	3
56	Cancer-Cell-Activated in situ Synthesis of Mitochondria-Targeting AIE Photosensitizer for Precise Photodynamic Therapy. *Angewandte Chemie*, **2021**, 133, 15072-15080	3.6	2
55	Cancer-Cell-Activated in situ Synthesis of Mitochondria-Targeting AIE Photosensitizer for Precise Photodynamic Therapy. *Angewandte Chemie - International Edition*, **2021**, 60, 14945-14953	16.4	29
54	A Polarity-Sensitive Ratiometric Fluorescence Probe for Monitoring Changes in Lipid Droplets and Nucleus during Ferroptosis. *Angewandte Chemie*, **2021**, 133, 15222-15227	3.6	2
53	A Polarity-Sensitive Ratiometric Fluorescence Probe for Monitoring Changes in Lipid Droplets and Nucleus during Ferroptosis. *Angewandte Chemie - International Edition*, **2021**, 60, 15095-15100	16.4	42
52	Revisiting Carbazole: Origin, Impurity, and Properties **2021**, 3, 1081-1087		16
51	Nanobody modified high-performance AIE photosensitizer nanoparticles for precise photodynamic oral cancer therapy of patient-derived tumor xenograft. *Biomaterials*, **2021**, 274, 120870	15.6	8
50	Metabolizable Photosensitizer with Aggregation-Induced Emission for Photodynamic Therapy. *Chemistry of Materials*, **2021**, 33, 5974-5980	9.6	3
49	An AIEgen as an Intrinsic Antibacterial Agent for Light-Up Detection and Inactivation of Intracellular Gram-Positive Bacteria. *Advanced Healthcare Materials*, **2021**, e2100885	10.1	4
48	All-in-One Molecular Aggregation-Induced Emission Theranostics: Fluorescence Image Guided and Mitochondria Targeted Chemo- and Photodynamic Cancer Cell Ablation. *Chemistry of Materials*, **2020**, 32, 4681-4691	9.6	44
47	AIEgen-coupled upconversion nanoparticles eradicate solid tumors through dual-mode ROS activation. *Science Advances*, **2020**, 6, eabb2712	14.3	58
46	Nanostructural Control Enables Optimized Photoacoustic–Fluorescence–Magnetic Resonance Multimodal Imaging and Photothermal Therapy of Brain Tumor. *Advanced Functional Materials*, **2020**, 30, 1907077	15.6	26
45	Organic Small Molecule Based Photothermal Agents with Molecular Rotors for Malignant Breast Cancer Therapy. *Advanced Functional Materials*, **2020**, 30, 1907093	15.6	45
44	Tumor-Activated and Metal-Organic Framework Assisted Self-Assembly of Organic Photosensitizers. *ACS Nano*, **2020**, 14, 13056-13068	16.7	15

43	Precise Molecular Design for High-Performance Luminogens with Aggregation-Induced Emission. *Advanced Materials*, **2020**, 32, e1903530	24	161
42	Constructing Adaptive Photosensitizers via Supramolecular Modification Based on Pillararene Host□Guest Interactions. *Angewandte Chemie*, **2020**, 132, 11877-11881	3.6	9
41	Constructing Adaptive Photosensitizers via Supramolecular Modification Based on Pillararene Host-Guest Interactions. *Angewandte Chemie - International Edition*, **2020**, 59, 11779-11783	16.4	53
40	Precise Molecular Engineering of Photosensitizers with Aggregation-Induced Emission over 800 nm for Photodynamic Therapy. *Advanced Functional Materials*, **2019**, 29, 1901791	15.6	68
39	Precise Deciphering of Brain Vasculatures and Microscopic Tumors with Dual NIR-II Fluorescence and Photoacoustic Imaging. *Advanced Materials*, **2019**, 31, e1902504	24	107
38	High-Resolution 3D NIR-II Photoacoustic Imaging of Cerebral and Tumor Vasculatures Using Conjugated Polymer Nanoparticles as Contrast Agent. *Advanced Materials*, **2019**, 31, e1808355	24	88
37	Theranostic Nanodots with Aggregation-Induced Emission Characteristic for Targeted and Image-Guided Photodynamic Therapy of Hepatocellular Carcinoma. *Theranostics*, **2019**, 9, 1264-1279	12.1	43
36	Polymerization-Enhanced Two-Photon Photosensitization for Precise Photodynamic Therapy. *ACS Nano*, **2019**, 13, 3095-3105	16.7	119
35	A Cross-linked Conjugated Polymer Photosensitizer Enables Efficient Sunlight-Induced Photooxidation. *Angewandte Chemie*, **2019**, 131, 3094-3098	3.6	6
34	A Cross-linked Conjugated Polymer Photosensitizer Enables Efficient Sunlight-Induced Photooxidation. *Angewandte Chemie - International Edition*, **2019**, 58, 3062-3066	16.4	32
33	Photosensitizers with Aggregation-Induced Emission: Materials and Biomedical Applications. *Advanced Materials*, **2018**, 30, e1801350	24	388
32	Dibenzothiophene-S,S-Dioxide-Based Conjugated Polymers: Highly Efficient Photocatalyts for Hydrogen Production from Water under Visible Light. *Small*, **2018**, 14, e1801839	11	57
31	Visualizing Photodynamic Therapy in Transgenic Zebrafish Using Organic Nanoparticles with Aggregation-Induced Emission. *Nano-Micro Letters*, **2018**, 10, 61	19.5	24
30	Photoacoustic Imaging: Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors (Adv. Mater. 29/2018). *Advanced Materials*, **2018**, 30, 1870214	24	11
29	Simultaneous Increase in Brightness and Singlet Oxygen Generation of an Organic Photosensitizer by Nanocrystallization. *Small*, **2018**, 14, e1803325	11	21
28	Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors. *Advanced Materials*, **2018**, 30, e1800766	24	246
27	Polymerization-Enhanced Photosensitization. *CheM*, **2018**, 4, 1937-1951	16.2	137
26	Rational Design of a Red-Emissive Fluorophore with AIE and ESIPT Characteristics and Its Application in Light-Up Sensing of Esterase. *Analytical Chemistry*, **2017**, 89, 3162-3168	7.8	112

25	Biocompatible conjugated polymer nanoparticles for highly efficient photoacoustic imaging of orthotopic brain tumors in the second near-infrared window. *Materials Horizons*, **2017**, 4, 1151-1156	14.4	98
24	High performance photosensitizers with aggregation-induced emission for image-guided photodynamic anticancer therapy. *Materials Horizons*, **2017**, 4, 1110-1114	14.4	96
23	Molecular Engineering of Conjugated Polymers for Biocompatible Organic Nanoparticles with Highly Efficient Photoacoustic and Photothermal Performance in Cancer Theranostics. *ACS Nano*, **2017**, 11, 10124-10134	16.7	140
22	A Highly Efficient and Photostable Photosensitizer with Near-Infrared Aggregation-Induced Emission for Image-Guided Photodynamic Anticancer Therapy. *Advanced Materials*, **2017**, 29, 1700548	24	280
21	Organic Nanocrystals with Bright Red Persistent Room-Temperature Phosphorescence for Biological Applications. *Angewandte Chemie*, **2017**, 129, 12328-12332	3.6	94
20	Organic Nanocrystals with Bright Red Persistent Room-Temperature Phosphorescence for Biological Applications. *Angewandte Chemie - International Edition*, **2017**, 56, 12160-12164	16.4	315
19	Highly efficient photosensitizers with aggregation-induced emission characteristics obtained through precise molecular design. *Chemical Communications*, **2017**, 53, 8727-8730	5.8	65
18	Calix[4]resorcinarene-based branched macromolecules for all-optical photorefractive applications. *Journal of Materials Chemistry C*, **2016**, 4, 10684-10690	7.1	14
17	Structure-Dependent cis/trans Isomerization of Tetraphenylethene Derivatives: Consequences for Aggregation-Induced Emission. *Angewandte Chemie - International Edition*, **2016**, 55, 6192-6	16.4	64
16	Bioorthogonal Turn-On Probe Based on Aggregation-Induced Emission Characteristics for Cancer Cell Imaging and Ablation. *Angewandte Chemie - International Edition*, **2016**, 55, 6457-61	16.4	137
15	A FRET probe with AIEgen as the energy quencher: dual signal turn-on for self-validated caspase detection. *Chemical Science*, **2016**, 7, 4245-4250	9.4	57
14	A self-reporting AIE probe with a built-in singlet oxygen sensor for targeted photodynamic ablation of cancer cells. *Chemical Science*, **2016**, 7, 1862-1866	9.4	165
13	Dual-targeted activatable photosensitizers with aggregation-induced emission (AIE) characteristics for image-guided photodynamic cancer cell ablation. *Journal of Materials Chemistry B*, **2016**, 4, 169-176	7.3	58
12	A Photostable Far-Red/Near-Infrared Conjugated Polymer Photosensitizer with Aggregation-Induced Emission for Image-Guided Cancer Cell Ablation. *Macromolecules*, **2016**, 49, 5017-5025	5.5	75
11	Structure-Dependent cis/trans Isomerization of Tetraphenylethene Derivatives: Consequences for Aggregation-Induced Emission. *Angewandte Chemie*, **2016**, 128, 6300-6304	3.6	16
10	Silole-Based Red Fluorescent Organic Dots for Bright Two-Photon Fluorescence In vitro Cell and In vivo Blood Vessel Imaging. *Small*, **2016**, 12, 782-92	11	66
9	Bioorthogonal Turn-On Probe Based on Aggregation-Induced Emission Characteristics for Cancer Cell Imaging and Ablation. *Angewandte Chemie*, **2016**, 128, 6567-6571	3.6	33
8	Light-responsive AIE nanoparticles with cytosolic drug release to overcome drug resistance in cancer cells. *Polymer Chemistry*, **2016**, 7, 3530-3539	4.9	55

7	Organic Nanoparticles with Aggregation-Induced Emission for Bone Marrow Stromal Cell Tracking in a Rat PTI Model. *Small*, **2016**, 12, 6576-6585	11	26
6	A Porphyrin-Based Conjugated Polymer for Highly Efficient In Vitro and In Vivo Photothermal Therapy. *Small*, **2016**, 12, 6243-6254	11	102
5	Far Red/Near-Infrared AIE Dots for Image-Guided Photodynamic Cancer Cell Ablation. *ACS Applied Materials & Interfaces*, **2016**, 8, 21193-200	9.5	83
4	Tuning the singlet-triplet energy gap: a unique approach to efficient photosensitizers with aggregation-induced emission (AIE) characteristics. *Chemical Science*, **2015**, 6, 5824-5830	9.4	308
3	Light-Up Probe for Targeted and Activatable Photodynamic Therapy with Real-Time In Situ Reporting of Sensitizer Activation and Therapeutic Responses. *Advanced Functional Materials*, **2015**, 25, 6586-6595	15.6	131
2	Photodynamic Therapy: Light-Up Probe for Targeted and Activatable Photodynamic Therapy with Real-Time In Situ Reporting of Sensitizer Activation and Therapeutic Responses (Adv. Funct. Mater. 42/2015). *Advanced Functional Materials*, **2015**, 25, 6691-6691	15.6	3
1	Photothermal-Activatable Liposome Carrying Tissue Plasminogen Activator for Photoacoustic Image-Guided Ischemic Stroke Treatment. *Small Structures*,2100118	8.7	2