

# Jianguo Wang

## List of Publications by Year in descending order

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67  
papers

3,677  
citations

126858

33  
h-index

133188

59  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4422  
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile strategy for realizing room temperature phosphorescence and single molecule white light emission. <i>Nature Communications</i> , 2018, 9, 2963.	5.8	339
2	Ionization and Anion <sup>+</sup> Interaction: A New Strategy for Structural Design of Aggregation-Induced Emission Luminogens. <i>Journal of the American Chemical Society</i> , 2017, 139, 16974-16979.	6.6	201
3	Multiscale Humidity Visualization by Environmentally Sensitive Fluorescent Molecular Rotors. <i>Advanced Materials</i> , 2017, 29, 1703900.	11.1	193
4	New Organic Semiconductors with Imide/Amide-Containing Molecular Systems. <i>Advanced Materials</i> , 2014, 26, 6965-6977.	11.1	183
5	Corannulene-Incorporated AIE Nanodots with Highly Suppressed Nonradiative Decay for Boosted Cancer Phototheranostics In Vivo. <i>Advanced Materials</i> , 2018, 30, e1801065.	11.1	163
6	Functionalized Acrylonitriles with Aggregation-Induced Emission: Structure Tuning by Simple Reaction-Condition Variation, Efficient Red Emission, and Two-Photon Bioimaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 15111-15120.	6.6	155
7	Specific Two-Photon Imaging of Live Cellular and Deep-Tissue Lipid Droplets by Lipophilic AIEgens at Ultralow Concentration. <i>Chemistry of Materials</i> , 2018, 30, 4778-4787.	3.2	154
8	Time-Dependent Photodynamic Therapy for Multiple Targets: A Highly Efficient AIE-Active Photosensitizer for Selective Bacterial Elimination and Cancer Cell Ablation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9470-9477.	7.2	153
9	A Tetrathiafulvalene-Based Electroactive Covalent Organic Framework. <i>Chemistry - A European Journal</i> , 2014, 20, 14614-14618.	1.7	143
10	Malonitrile-Functionalized Tetraphenylpyrazine: Aggregation-Induced Emission, Ratiometric Detection of Hydrogen Sulfide, and Mechanochromism. <i>Advanced Functional Materials</i> , 2018, 28, 1704689.	7.8	124
11	Acceptor Planarization and Donor Rotation: A Facile Strategy for Realizing Synergistic Cancer Phototherapy via Type I PDT and PTT. <i>ACS Nano</i> , 2022, 16, 4162-4174.	7.3	121
12	A selective and light-up fluorescent probe for $\beta$ -galactosidase activity detection and imaging in living cells based on an AIE tetraphenylethylene derivative. <i>Chemical Communications</i> , 2017, 53, 4505-4508.	2.2	114
13	An Easily Available Ratiometric Reaction-Based AIE Probe for Carbon Monoxide Light-up Imaging. <i>Analytical Chemistry</i> , 2019, 91, 9388-9392.	3.2	100
14	Highly photostable two-photon NIR AIEgens with tunable organelle specificity and deep tissue penetration. <i>Biomaterials</i> , 2019, 208, 72-82.	5.7	82
15	Fluorescent turn-on sensing of bacterial lipopolysaccharide in artificial urine sample with sensitivity down to nanomolar by tetraphenylethylene based aggregation induced emission molecule. <i>Biosensors and Bioelectronics</i> , 2016, 85, 62-67.	5.3	78
16	Highly Emissive AIEgens with Multiple Functions: Facile Synthesis, Chromism, Specific Lipid Droplet Imaging, Apoptosis Monitoring, and In Vivo Imaging. <i>Chemistry of Materials</i> , 2018, 30, 7892-7901.	3.2	68
17	Spiro-Functionalized Diphenylethenes: Suppression of a Reversible Photocyclization Contributes to the Aggregation-Induced Emission Effect. <i>Journal of the American Chemical Society</i> , 2019, 141, 9803-9807.	6.6	65
18	A multifunctional luminogen with aggregation-induced emission characteristics for selective imaging and photodynamic killing of both cancer cells and Gram-positive bacteria. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3894-3903.	2.9	60

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19	Aggregation caused quenching to aggregation induced emission transformation: a precise tuning based on BN-doped polycyclic aromatic hydrocarbons toward subcellular organelle specific imaging. <i>Chemical Science</i> , 2022, 13, 3129-3139.	3.7	58
20	A new tetraphenylethylene based AIE probe for light-up and discriminatory detection of Cys over Hcy and GSH. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 712-716.	4.0	57
21	Alternating Conjugated Electron Donor–Acceptor Polymers Entailing Pechmann Dye Framework as the Electron Acceptor Moieties for High Performance Organic Semiconductors with Tunable Characteristics. <i>Macromolecules</i> , 2014, 47, 2899-2906.	2.2	54
22	Fluorescence Turn-On Visualization of Microscopic Processes for Self-Healing Gels by AIEgens and Anticounterfeiting Application. <i>Chemistry of Materials</i> , 2019, 31, 5683-5690.	3.2	52
23	Selective fluorescent probes for spermine and 1-adamantanamine based on the supramolecular structure formed between AIE-active molecule and cucurbit[ <i>n</i> ]urils. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 602-607.	4.0	50
24	Photoresponsive spiro-polymers generated in situ by C–H-activated polyspiroannulation. <i>Nature Communications</i> , 2019, 10, 5483.	5.8	46
25	Lipid Droplet–Targetable Fluorescence Guided Photodynamic Therapy of Cancer Cells with an Activatable AIE–Active Fluorescent Probe for Hydrogen Peroxide. <i>Advanced Optical Materials</i> , 2020, 8, 2001119.	3.6	46
26	A Mild and Efficient Iron–Catalyzed Synthesis of Alkenyl Halides via Direct Addition of Benzyl Halides to Arylalkynes. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 371-374.	2.1	43
27	Lysosome-Targeting Red-Emitting Aggregation-Induced Emission Probe with Large Stokes Shift for Light-Up <i>in Situ</i> Visualization of $\beta$ -N-Acetylhexosaminidase. <i>Analytical Chemistry</i> , 2019, 91, 12611-12614.	3.2	42
28	A synergy between the push–pull electronic effect and twisted conformation for high-contrast mechanochromic AIEgens. <i>Materials Horizons</i> , 2021, 8, 630-638.	6.4	42
29	Bioinspired Hydrogels with Muscle-Like Structure for AIEgen-Guided Selective Self-Healing. <i>CCS Chemistry</i> , 2021, 3, 1146-1156.	4.6	42
30	New conjugated molecular scaffolds based on [2,2]paracyclophane as electron acceptors for organic photovoltaic cells. <i>Chemical Communications</i> , 2014, 50, 9939-9942.	2.2	40
31	A fast responsive, highly selective and light-up fluorescent probe for the two-photon imaging of carboxylesterase in living cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1595-1599.	2.9	36
32	An efficient and mild iron-mediated synthesis of alkenyl halides via direct C–C bond formation of benzyl alcohols and aryl alkynes. <i>Tetrahedron Letters</i> , 2009, 50, 1240-1242.	0.7	35
33	The influence of intermolecular interactions and molecular packings on mechanochromism and mechanoluminescence – a tetraphenylethylene derivative case. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12709-12716.	2.7	34
34	An easily available ratiometric AIE probe for peroxyxynitrite <i>in vitro</i> and <i>in vivo</i> imaging. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129223.	4.0	31
35	Arylacetylene–Substituted Naphthalene Diimides with Dual Functions: Optical Waveguides and n-Type Semiconductors. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3207-3214.	1.7	30
36	New switch on fluorescent probe with AIE characteristics for selective and reversible detection of mercury ion in aqueous solution. <i>Analytical Biochemistry</i> , 2019, 585, 113403.	1.1	26

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37	Alternating Electron Donor–Acceptor Conjugated Polymers Based on Modified Naphthalene Diimide Framework: The Large Enhancement of p-Type Semiconducting Performance upon Solvent Vapor Annealing. <i>Macromolecules</i> , 2013, 46, 5504–5511.	2.2	25
38	Unusual light-driven amplification through unexpected regioselective photogeneration of five-membered azaheterocyclic AIEgen. <i>Chemical Science</i> , 2021, 12, 709–717.	3.7	23
39	Recent Advances of Pure Organic Room Temperature Phosphorescence Materials for Bioimaging Applications. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 73–82.	1.3	23
40	Efficient and Mild Iron-Catalyzed Direct Allylation of Benzyl Alcohols and Benzyl Halides with Allyltrimethylsilane. <i>Synthetic Communications</i> , 2010, 40, 2042–2046.	1.1	22
41	An AIE based tetraphenylethylene derivative for highly selective and light-up sensing of fluoride ions in aqueous solution and in living cells. <i>RSC Advances</i> , 2016, 6, 59400–59404.	1.7	22
42	Time-Dependent Photodynamic Therapy for Multiple Targets: A Highly Efficient AIE-Active Photosensitizer for Selective Bacterial Elimination and Cancer Cell Ablation. <i>Angewandte Chemie</i> , 2020, 132, 9557–9564.	1.6	22
43	A new tetraphenylethylene based AIE sensor with light-up and tunable measuring range for adenosine triphosphate in aqueous solution and in living cells. <i>Analyst</i> , 2017, 142, 4388–4392.	1.7	21
44	New core-expanded naphthalene diimides with different functional groups for air-stable solution-processed organic n-type semiconductors. <i>New Journal of Chemistry</i> , 2013, 37, 1720.	1.4	19
45	New alternating electron donor–acceptor conjugated polymers entailing (E)-[4,4-biimidazolylidene]-5,5-(1H,1H)-dione moieties. <i>Polymer Chemistry</i> , 2013, 4, 5283.	1.9	19
46	A smart AIEgen-functionalized surface with reversible modulation of fluorescence and wettability. <i>Materials Horizons</i> , 2019, 6, 2032–2039.	6.4	19
47	Modulation of the intramolecular hydrogen bonding and push–pull electron effects toward realizing highly efficient organic room temperature phosphorescence. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13797–13804.	2.7	19
48	New emissive organic molecule based on pyrido[3,4-g]isoquinoline framework: synthesis and fluorescence tuning as well as optical waveguide behavior. <i>Tetrahedron</i> , 2013, 69, 2687–2692.	1.0	18
49	Selectively light-up hydrogen peroxide in hypoxic cancer cells with a novel fluorescent probe. <i>Chemical Communications</i> , 2018, 54, 13957–13960.	2.2	18
50	Mitochondria-targeting NIR fluorescent probe for rapid, highly sensitive and selective visualization of nitroxyl in live cells, tissues and mice. <i>Science China Chemistry</i> , 2020, 63, 282–289.	4.2	16
51	An easily available ratiometric AIE probe for nitroxyl visualization <i>in vitro</i> and <i>in vivo</i> . <i>Materials Chemistry Frontiers</i> , 2021, 5, 1817–1823.	3.2	15
52	Side-chain effect of perylene diimide tetramer-based non-fullerene acceptors for improving the performance of organic solar cells. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2104–2108.	3.2	13
53	Highly-efficient photosensitizer based on AIEgen-decorated porphyrin for protein photocleaving. <i>Chinese Chemical Letters</i> , 2019, 30, 1965–1968.	4.8	13
54	Molecular engineering to achieve AIE-active photosensitizers with NIR emission and rapid ROS generation efficiency. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5272–5278.	2.9	12

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55	Charge Neutralization Strategy to Construct Salt-Tolerant and Cell-Permeable Nanoprobes: Application in Ratiometric Sensing and Imaging of Intracellular pH. <i>Analytical Chemistry</i> , 2021, 93, 15159-15166.	3.2	11
56	Spin Radical Enhanced Magnetocapacitance Effect in Intermolecular Excited States. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14136-14140.	1.2	10
57	Synthesis and Properties of Aza-Ovalene with Six Zigzag Edges. <i>Organic Letters</i> , 2021, 23, 8640-8644.	2.4	9
58	Encapsulation of AIEgens within Metal-Organic Framework toward High-Performance White Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	9
59	Discrimination of Pd <sup>0</sup> and Pd <sup>2+</sup> in solution and in live cells by novel light-up fluorescent probe with AIE and ESIPT characteristics. <i>Microchemical Journal</i> , 2020, 153, 104503.	2.3	8
60	Conjugated electron donor-acceptor molecules with (E)-[4,4'-biimidazolylidene]-5,5'-dione for new organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1149-1157.	2.7	7
61	An easily available lysosomal-targeted ratiometric fluorescent probe with aggregation induced emission characteristics for hydrogen polysulfide visualization in acute ulcerative colitis. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7638-7644.	3.2	7
62	Triphenylamine cored electron-donors for solution-processed organic solar cells: From tri-armed molecules to tetra-armed molecules. <i>Dyes and Pigments</i> , 2018, 153, 291-299.	2.0	6
63	A Fast-Response AIE-Active Ratiometric Fluorescent Probe for the Detection of Carboxylesterase. <i>Biosensors</i> , 2022, 12, 484.	2.3	5
64	Regio- and Stereoselective Polymerization of Diynes with Inorganic Comonomer: A Facile Strategy to Conjugated Poly( <i>p</i> -arylene dihalodienes) with Processability and Postfunctionalizability. <i>Macromolecules</i> , 2018, 51, 3497-3503.	2.2	3
65	A highly selective and light-up red emissive fluorescent probe for imaging of penicillin G amidase in <i>Bacillus cereus</i> . <i>New Journal of Chemistry</i> , 2019, 43, 6429-6434.	1.4	3
66	Humidity Sensors: Multiscale Humidity Visualization by Environmentally Sensitive Fluorescent Molecular Rotors ( <i>Adv. Mater.</i> 46/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	0
67	Donor-acceptor strategy to construct near infrared AIEgens for cell imaging. <i>New Journal of Chemistry</i> , 0, , .	1.4	0