

Can Wang

List of Publications by Year in descending order

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42
papers

3,007
citations

218677

26
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

2902
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular conformation and packing: their critical roles in the emission performance of mechanochromic fluorescence materials. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2174-2194.	5.9	477
2	AIEgen with Fluorescence-Phosphorescence Dual Mechanoluminescence at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 880-884.	13.8	250
3	A stable tetraphenylethene derivative: aggregation-induced emission, different crystalline polymorphs, and totally different mechanoluminescence properties. <i>Materials Horizons</i> , 2016, 3, 220-225.	12.2	228
4	Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. <i>Nature Communications</i> , 2019, 10, 5161.	12.8	216
5	Abnormal room temperature phosphorescence of purely organic boron-containing compounds: the relationship between the emissive behavior and the molecular packing, and the potential related applications. <i>Chemical Science</i> , 2017, 8, 8336-8344.	7.4	176
6	From ACQ to AIE: the suppression of the strong π - π interaction of naphthalene diimide derivatives through the adjustment of their flexible chains. <i>Chemical Communications</i> , 2016, 52, 11496-11499.	4.1	145
7	Heartbeat-Sensing Mechanoluminescent Device Based on a Quantitative Relationship between Pressure and Emissive Intensity. <i>Matter</i> , 2020, 2, 181-193.	10.0	133
8	Mechanoluminescence or Room-Temperature Phosphorescence: Molecular Packing-Dependent Emission Response. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17297-17302.	13.8	116
9	Turn-On-Fluorescent Probe for Mercury(II): High Selectivity and Sensitivity and New Design Approach by the Adjustment of the π -Bridge. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11369-11376.	8.0	113
10	Bromine-Substituted Fluorene: Molecular Structure, Br-Br Interactions, Room-Temperature Phosphorescence, and Tricolor Triboluminescence. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16821-16826.	13.8	111
11	AIEgen with Fluorescence-Phosphorescence Dual Mechanoluminescence at Room Temperature. <i>Angewandte Chemie</i> , 2017, 129, 898-902.	2.0	90
12	Novel AIE-active ratiometric fluorescent probes for mercury(Hg^{2+}) based on the Hg^{2+} -promoted deprotection of thioketal, and good mechanochromic properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 773-780.	5.5	82
13	Multiple Luminescence Responses towards Mechanical Stimulus and Photo-Induction: The Key Role of the Stuck Packing Mode and Tunable Intermolecular Interactions. <i>Chemistry - A European Journal</i> , 2019, 25, 7031-7037.	3.3	64
14	Recyclable mechanoluminescent luminogen: different polymorphs, different self-assembly effects of the thiophene moiety and recovered molecular packing <i>via</i> simple thermal-treatment. <i>Materials Chemistry Frontiers</i> , 2019, 3, 32-38.	5.9	57
15	A Series of Hyperbranched Polytriazoles Containing Perfluoroaromatic Rings from AB_2 -Type Monomers: Convenient Syntheses by Click Chemistry under Copper(I) Catalysis and Enhanced Optical Nonlinearity. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2787-2795.	3.3	45
16	Second-order nonlinear optical dendrimers containing different types of isolation groups: convenient synthesis through powerful "click chemistry" and large NLO effects. <i>Journal of Materials Chemistry C</i> , 2013, 1, 717-728.	5.5	44
17	Tetraphenylcyclopentadiene Derivatives: Aggregation-Induced Emission, Adjustable Luminescence from Green to Blue, Efficient Undoped OLED Performance and Good Mechanochromic Properties. <i>Small</i> , 2016, 12, 6623-6632.	10.0	44
18	Synthesis and Properties of Ethylene-Annulated Di(perylene diimides). <i>Organic Letters</i> , 2012, 14, 5278-5281.	4.6	43

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19	Halogen-Containing TPA-Based Luminogens: Different Molecular Packing and Different Mechanoluminescence. <i>Advanced Optical Materials</i> , 2019, 7, 1900505.	7.3	43
20	The marriage of AIE and interface engineering: convenient synthesis and enhanced photovoltaic performance. <i>Chemical Science</i> , 2017, 8, 3750-3758.	7.4	41
21	Phenanthroimidazole derivatives with minor structural differences: crystalline polymorphisms, different molecular packing, and totally different mechanoluminescence. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13759-13763.	5.5	39
22	A highly sensitive and selective fluorescent probe for hypochlorite in pure water with aggregation induced emission characteristics. <i>Faraday Discussions</i> , 2017, 196, 427-438.	3.2	37
23	Bioinspired Self-Healing Liquid Films for Ultradurable Electronics. <i>ACS Nano</i> , 2019, 13, 3225-3231.	14.6	36
24	Halogen-substituted triphenylamine derivatives with intense mechanoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12256-12262.	5.5	34
25	A dual-function probe based on naphthalene diimide for fluorescent recognition of Hg ²⁺ and colorimetric detection of Cu ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 1105-1111.	7.8	33
26	Triphenylamine-based π -conjugated dendrimers: convenient synthesis, easy solution processability, and good hole-transporting properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2016-2023.	5.5	32
27	Bromine-Substituted Fluorene: Molecular Structure, Br-Br Interactions, Room-Temperature Phosphorescence, and Tricolor Triboluminescence. <i>Angewandte Chemie</i> , 2018, 130, 17063-17068.	2.0	26
28	Mechanoluminescence or Room-Temperature Phosphorescence: Molecular Packing-Dependent Emission Response. <i>Angewandte Chemie</i> , 2019, 131, 17457-17462.	2.0	26
29	Synthesis of a cyclen-containing disubstituted polyacetylene with strong green photoluminescence and its application as a sensitive chemosensor towards sulfide anion with good selectivity and high sensitivity. <i>Polymer Chemistry</i> , 2014, 5, 2041-2049.	3.9	25
30	Blue AIEgens bearing triphenylethylene peripheral: adjustable intramolecular conjugation and good device performance. <i>Science Bulletin</i> , 2016, 61, 1746-1755.	9.0	23
31	New application of AIEgens realized in photodetectors: reduced work function of transparent electrodes and much improved performance. <i>Materials Chemistry Frontiers</i> , 2018, 2, 264-269.	5.9	23
32	Changing the shape of chromophores from π -H-type to π -star-type: increasing the macroscopic NLO effects by a large degree. <i>Polymer Chemistry</i> , 2013, 4, 378-386.	3.9	21
33	Using an isolation chromophore to further improve the comprehensive performance of nonlinear optical (NLO) dendrimers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3226.	5.5	21
34	The influence of pentafluorophenyl groups on the nonlinear optical (NLO) performance of high generation dendrons and dendrimers. <i>Scientific Reports</i> , 2015, 4, 6101.	3.3	21
35	Bioinspired Ultrafast-Responsive Nanofluidic System for Ion and Molecule Transport with Speed Control. <i>ACS Nano</i> , 2020, 14, 12614-12620.	14.6	21
36	Achieving enhanced ML or RTP performance: alkyl substituent effect on the fine-tuning of molecular packing. <i>Materials Chemistry Frontiers</i> , 2021, 5, 817-824.	5.9	21

#	ARTICLE	IF	CITATIONS
37	Second-order nonlinear optical hyperbranched polymer containing isolation chromophore moieties derived from both "H-type and star-type chromophores. Chinese Journal of Polymer Science (English) Tj ETQq1.8 0.784314 rgBT		
38	Magnetic Actuation Multifunctional Platform Combining Microdroplets Delivery and Stirring. ACS Applied Materials & Interfaces, 2019, 11, 47642-47648.	8.0	13
39	A Light-Up Probe for Detection of Adenosine in Urine Samples by a Combination of an AIE Molecule and an Aptamer. Sensors, 2017, 17, 2246.	3.8	9
40	A fluorescent and colorimetric probe based on naphthalene diimide and its high sensitivity towards copper ions when used as test strips. RSC Advances, 2019, 9, 12675-12680.	3.6	8
41	Mechanoluminescence Materials with the Characteristic of Aggregation-Induced Emission (AIE). , 2019, , 141-162.		4
42	POSS containing hyperbranched polymers as precursors for magnetic Co@C-SiOx ceramic nanocomposites with good sinter-resistant properties and high ceramic yield. Journal of Materials Chemistry C, 0, , .	5.5	0