Zhihang Wang

List of Publications by Year
in descending order

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24 papers	1,120 citations	471477 17 h-index	526264 27 g-index
31 all docs	31 docs citations	31 times ranked	573 citing authors

#	Article	IF	Citations
1	Synthesis, characterization and computational evaluation of bicyclooctadienes towards molecular solar thermal energy storage. Chemical Science, 2022, 13, 834-841.	7.4	14
2	Thermo-optical performance of molecular solar thermal energy storage films. Applied Energy, 2022, 310, 118541.	10.1	11
3	Chip-scale solar thermal electrical power generation. Cell Reports Physical Science, 2022, 3, 100789.	5.6	18
4	A rechargeable molecular solar thermal system below 0 Â°C. Chemical Science, 2022, 13, 6950-6958.	7.4	21
5	Status and challenges for molecular solar thermal energy storage system based devices. Chemical Society Reviews, 2022, 51, 7313-7326.	38.1	40
6	Liquidâ€Based Multijunction Molecular Solar Thermal Energy Collection Device. Advanced Science, 2021, 8, e2103060.	11.2	27
7	Scalable Synthesis of Norbornadienes via inâ€...situ Cracking of Dicyclopentadiene Using Continuous Flow Chemistry. European Journal of Organic Chemistry, 2021, 2021, 5337-5342.	2.4	7
8	Storing energy with molecular photoisomers. Joule, 2021, 5, 3116-3136.	24.0	86
9	Photochemical Phase Transitions Enable Coharvesting of Photon Energy and Ambient Heat for Energetic Molecular Solar Thermal Batteries That Upgrade Thermal Energy. Journal of the American Chemical Society, 2020, 142, 12256-12264.	13.7	96
10	Donor-Acceptor Substituted Benzo-, Naphtho- and Phenanthro-Fused Norbornadienes. Molecules, 2020, 25, 322.	3.8	18
11	Synthesis of Palladium Nanodendrites Using a Mixture of Cationic and Anionic Surfactants. Langmuir, 2020, 36, 1745-1753.	3.5	17
12	Macroscopic heat release in a molecular solar thermal energy storage system. Energy and Environmental Science, 2019, 12, 187-193.	30.8	120
13	Intermolecular London Dispersion Interactions of Azobenzene Switches for Tuning Molecular Solar Thermal Energy Storage Systems. ChemPlusChem, 2019, 84, 1145-1148.	2.8	34
14	Solar energy storage at an atomically defined organic-oxide hybrid interface. Nature Communications, 2019, 10, 2384.	12.8	37
15	Demonstration of an azobenzene derivative based solar thermal energy storage system. Journal of Materials Chemistry A, 2019, 7, 15042-15047.	10.3	75
16	Solar Energy Storage by Molecular Norbornadieneâ€“Quadricyclane Photoswitches: Polymer Film Devices. Advanced Science, 2019, 6, 1900367.	11.2	45
17	Tuningâ€‰Molecular Solar Thermal Properties by Modification of a Promising Norbornadiene Photoswitch. European Journal of Organic Chemistry, 2019, 2019, 2354-2361.	2.4	10
18	Liquid Norbornadiene Photoswitches for Solar Energy Storage. Advanced Energy Materials, 2018, 8, 1703401.	19.5	61

#	Article	IF	Citations
19	Three-Input Molecular Keypad Lock Based on a Norbornadieneâ€“Quadricyclane Photoswitch. Journal of Physical Chemistry Letters, 2018, 9, 6174-6178.	4.6	23
20	Molecular solar thermal energy storage in photoswitch oligomers increases energy densities and storage times. Nature Communications, 2018, 9, 1945.	12.8	104
21	Norbornadieneâ€Based Photoswitches with Exceptional Combination of Solar Spectrum Match and Longâ€Term Energy Storage. Chemistry - A European Journal, 2018, 24, 12767-12772.	3.3	67
22	Evaluating Dihydroazulene/Vinylheptafulvene Photoswitches for Solar Energy Storage Applications. ChemSusChem, 2017, 10, 3000-3000.	6.8	2
23	Evaluating Dihydroazulene/Vinylheptafulvene Photoswitches for Solar Energy Storage Applications. ChemSusChem, 2017, 10, 3049-3055.	6.8	67
24	Exploring the potential of a hybrid device combining solar water heating and molecular solar thermal energy storage. Energy and Environmental Science, 2017, 10, 728-734.	30.8	106