

Azobenzene-based solar thermal fuels: design, properties

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The coordination and activation of azobenzene by Ru ⁵ (η^5 -C) cluster complexes. <i>Journal of Organometallic Chemistry</i> , 2018, 878, 77-83.	0.8	2
2	Design of Mechanized Nanocomposites for Exploring New Chemical Motions. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1601-1609.	1.3	2
3	Flexible Solar Thermal Fuel Devices: Composites of Fabric and a Photoliquefiable Azobenzene Derivative. <i>Advanced Energy Materials</i> , 2019, 9, 1901363.	10.2	60
4	Norbornadiene- π -dihydroazulene conjugates. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7735-7746.	1.5	25
5	Intermolecular London Dispersion Interactions of Azobenzene Switches for Tuning Molecular Solar Thermal Energy Storage Systems. <i>ChemPlusChem</i> , 2019, 84, 1145-1148.	1.3	34
6	Synthesis of Functionalized Azobiphenyl- and Azoterphenyl- π -Ditopic Linkers: Modular Building Blocks for Photoresponsive Smart Materials. <i>ChemistryOpen</i> , 2019, 8, 743-759.	0.9	9
7	Facile synthesis of a photoresponsive AlEgen used for monitoring UV light and photo-patterning. <i>Dyes and Pigments</i> , 2019, 171, 107750.	2.0	17
8	Natural bauxite nanosheets: A multifunctional and sustainable 2D nano-reinforcement for high performance polymer nanocomposites. <i>Composites Science and Technology</i> , 2019, 184, 107868.	3.8	9
9	Synthesis of 5-alkyl- and 5-phenylamino-substituted Azothiazole Dyes with Solvatochromic and DNA-Binding Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 16088-16098.	1.7	8
10	Opening of Band Gap of Graphene with High Electronic Mobility by Codoping BN Pairs. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 1058-1061.	1.3	3
11	An Intrinsic Photothermal Liquid for Light Detection and Energy Storage. <i>Chemistry - A European Journal</i> , 2019, 25, 13811-13815.	1.7	4
13	Adaptable Photochromic Switches with Self-Aggregating Heterocyclic Azo Dyes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23140-23144.	1.5	9
14	Diarylethene-based conjugated polymer networks for ultrafast photochromic films. <i>New Journal of Chemistry</i> , 2019, 43, 15797-15803.	1.4	7
15	Introductory Chapter: Liquid Crystals. , 2019, , .		1
16	Synthesis of Bis- η^2 -Diketonate Lanthanide Complexes with an Azobenzene Bridge and Studies of Their Reversible Photo/Thermal Isomerization Properties. <i>ACS Omega</i> , 2019, 4, 15530-15538.	1.6	13
17	Structural Design and Application of Azo-based Supramolecular Polymer Systems. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 1183-1199.	2.0	21
18	Dithiafulvene derivatized donor-acceptor norbornadienes with redshifted absorption. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3092-3097.	1.3	13
19	Solar Thermal Storage and Room-Temperature Fast Release Using a Uniform Flexible Azobenzene-Grafted Polynorborene Film Enhanced by Stretching. <i>Macromolecules</i> , 2019, 52, 4222-4231.	2.2	34

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20	Selective switching of multiple azobenzenes. <i>Chemical Science</i> , 2019, 10, 7418-7425.	3.7	43
21	In-situ Reduction Synthesis of Bi/BiOI Heterostructure Films with High Photoelectrochemical Activity. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 662-666.	1.3	5
22	Demonstration of an azobenzene derivative based solar thermal energy storage system. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15042-15047.	5.2	75
23	Solar Energy Storage by Molecular Norbornadiene-Quadracyclane Photoswitches: Polymer Film Devices. <i>Advanced Science</i> , 2019, 6, 1900367.	5.6	45
24	Applications of Photoswitches in the Storage of Solar Energy. <i>ChemPhotoChem</i> , 2019, 3, 268-283.	1.5	94
25	Highly efficient solar steam generation of supported metal-organic framework membranes by a photoinduced electron transfer process. <i>Nanoscale</i> , 2019, 11, 11121-11127.	2.8	22
26	Recent Advances in the Z/E-Isomers of Tetraphenylethene Derivatives: Stereoselective Synthesis, AIE Mechanism, Photophysical Properties, and Application as Chemical Probes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2524-2541.	1.7	55
27	Photothermal Clothing for Thermally Preserving Pipeline Transportation of Crude Oil. <i>Advanced Functional Materials</i> , 2019, 29, 1900703.	7.8	46
28	Carbon-based functional nanomaterials: Preparation, properties and applications. <i>Composites Science and Technology</i> , 2019, 179, 10-40.	3.8	216
29	Chemical Z/E Isomer Switching of Arylazopyrazoles Using Acid. <i>ChemPhotoChem</i> , 2019, 3, 372-377.	1.5	39
30	Dependence of the photo-response behavior of self-assembled 2D Azo-derivatives on the functional groups on a solid surface. <i>New Journal of Chemistry</i> , 2019, 43, 6262-6266.	1.4	2
31	Observing Charge Transfer Interaction in CuI and MoS ₂ Heterojunction for Photoresponsive Device Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 302-310.	2.0	13
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33	Molecular regulation of nano-structured solid-state AZO-SWCNTs assembly film for the high-energy and short-term solar thermal storage. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 198-205.	3.0	36
34	Frontiers in carbon dots: design, properties and applications. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2571-2601.	3.2	118
35	General Synthesis and Optical Properties of N-Aryl-N ² -Silyldiazenes. <i>Organometallics</i> , 2019, 38, 4679-4686.	1.1	14
36	Form-Stable Solar Thermal Heat Packs Prepared by Impregnating Phase-Changing Materials within Carbon-Coated Copper Foams. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3417-3427.	4.0	83
37	Direct Imaging of Photoswitching Molecular Conformations Using Individual Metal Atom Markers. <i>ACS Nano</i> , 2019, 13, 87-96.	7.3	22

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38	Synthesis and photoisomerization behavior of polyamide-phenyleneethynylenes bearing azobenzene moieties in the main chain. <i>Polymer Bulletin</i> , 2020, 77, 1121-1134.	1.7	1
39	Thiophenylazobenzene: An Alternative Photoisomerization Controlled by Lone Pair... Interaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 380-387.	7.2	35
40	Molecular Solar Thermal Storage Enhanced by Hyperbranched Structures. <i>Solar Rrl</i> , 2020, 4, 1900422.	3.1	19
41	Rapid production of few layer graphene for energy storage via dry exfoliation of expansible graphite. <i>Composites Science and Technology</i> , 2020, 185, 107895.	3.8	16
42	Thiophenylazobenzene: An Alternative Photoisomerization Controlled by Lone Pair... Interaction. <i>Angewandte Chemie</i> , 2020, 132, 388-395.	1.6	9
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47	Photoswitchable Bent-Core Nematic Liquid Crystals with Methylated Azobenzene Wing Exhibiting Optic-Field-Enhanced Fréedericksz Transition Effect. <i>Journal of Physical Chemistry C</i> , 2020, 124, 874-885.	1.5	18
48	Molecular dynamics simulation for drug delivery in azobenzene-containing membranes. <i>Molecular Simulation</i> , 2020, 46, 300-307.	0.9	3
49	The role of conductivity and molecular mobility on the photoanisotropic response of a new azo-polymer containing sulfonic groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112268.	2.0	10
50	Preparation of Photoresponsive Film via Electrodeposition Approach for Ready-to-Use Solar Thermal Fuel Device. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001079.	1.9	6
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52	Difference projection-after-variation double-hybrid density functional theory applied to the calculation of vertical excitation energies. <i>Journal of Chemical Physics</i> , 2020, 153, 074103.	1.2	3
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57	Emerging flexible sensors based on nanomaterials: recent status and applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25499-25527.	5.2	106
58	Azobenzene-based solar thermal energy storage enhanced by gold nanoparticles for rapid, optically-triggered heat release at room temperature. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18668-18676.	5.2	39
59	Toward Controlled Thermal Energy Storage and Release in Organic Phase Change Materials. <i>Joule</i> , 2020, 4, 1621-1625.	11.7	75
60	Photochromic Dendrimers for Photoswitched Solid-To-Liquid Transitions and Solar Thermal Fuels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50135-50142.	4.0	41
61	Photocatalytically Active Conjugated Porous Polymers via Click Chemistry for Heterogeneous Dehydrogenation of Hydrazo Aromatics. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14377-14385.	3.2	16
62	Photo-induced crystallization with emission enhancement (PICEE). <i>Materials Horizons</i> , 2020, 7, 3005-3010.	6.4	11
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77	Formation of Highly Ordered Self-Assembled Monolayers on Two-Dimensional Materials via Noncovalent Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33941-33949.	4.0	13
78	Photoisomerization-Driven Photoluminescence Modulation in CdSeS Gradient Quantum Dot/Liquid Crystal Nanocomposites. <i>ChemPhotoChem</i> , 2020, 4, 413-419.	1.5	1
79	Establishing linear-free-energy relationships for the quadricyclane-to-norbornadiene reaction. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2113-2119.	1.5	6
80	NIR light-steered magnetic liquid marbles with switchable positive/negative phototaxis. <i>Applied Materials Today</i> , 2020, 19, 100595.	2.3	11
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87	Effect of Oriented External Electric Fields on the Photo and Thermal Isomerization of Azobenzene. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3520-3529.	1.1	12
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90	Light-Controlled Regioselective Synthesis of Fullerene Bis-Adducts. <i>Angewandte Chemie</i> , 2021, 133, 317-324.	1.6	2
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119	Azobispyrazole Family as Photoswitches Combining (Near-Quantitative Bidirectional Isomerization and Widely Tunable Thermal Half-Lives from Hours to Years**. <i>Angewandte Chemie</i> , 2021, 133, 16675-16682.	1.6	11
120	Synthesis, spectral characterization, anticancer and cyclic voltammetric studies of azo colorants containing thiazole structure. <i>Chemical Data Collections</i> , 2021, 33, 100686.	1.1	10
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