

Rui Su

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly efficient (N-benzothiazolyl)-cyanoacetamide based co-sensitizers for high efficiency dye-sensitized solar cells. <i>Optik</i> , 2022, 249, 168274.	2.9	14
2	Molecular engineering of ruthenium-based photosensitizers with superior photovoltaic performance in DSSCs: novel N-alkyl 2-phenylindole-based ancillary ligands. <i>New Journal of Chemistry</i> , 2022, 46, 2739-2746.	2.8	1
3	Timing jitter of monodisperse droplets generated by capillary jet breakup. <i>Physics of Fluids</i> , 2022, 34, 042107.	4.0	2
4	Calculation of field and force of Halbach arrays: Improved magnetic charge method for irregular magnetized magnets. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 11136-11149.	2.1	1
5	Deformation characteristics of droplet generated by Rayleigh jet breakup. <i>AIP Advances</i> , 2021, 11, .	1.3	4
6	Design Method of Bearingless Permanent Magnet Slice Motor for Maglev Centrifugal Pump Based on Performance Metric Cluster. <i>Actuators</i> , 2021, 10, 153.	2.3	4
7	Modelling and Stability Analysis for a Magnetically Levitated Slice Motor (MLSM) with Gyroscopic Effect and Non-Collocated Structure Based on the Extended Inverse Nyquist Stability Criterion. <i>Machines</i> , 2021, 9, 201.	2.2	0
8	Wetting transition of the confined receding meniscus with tailing bead formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127316.	4.7	2
9	Co-sensitization of the HD-2 complex with low-cost cyanoacetanilides for highly efficient DSSCs. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 281-288.	2.9	17
10	Tailoring dual-channel anchorable organic sensitizers with indolo[2,3-b]quinoxaline moieties: Correlation between structure and DSSC performance. <i>Solar Energy</i> , 2020, 206, 443-454.	6.1	11
11	Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 199, 74-81.	6.1	10
12	Structural studies and photovoltaic investigation of indolo[2,3-b]quinoxaline-based sensitizers/co-sensitizers achieving highly efficient DSSCs. <i>New Journal of Chemistry</i> , 2020, 44, 2797-2812.	2.8	20
13	New cyanoacetanilides based dyes as effective co-sensitizers for DSSCs sensitized with ruthenium (II) complex (HD-2). <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7981-7990.	2.2	16
14	Three-component one-pot reaction for molecular engineering of novel cost-effective highly rigid quinoxaline-based photosensitizers for highly efficient DSSCs application: Remarkable photovoltage. <i>Dyes and Pigments</i> , 2019, 171, 107683.	3.7	17
15	Investigations into structure-property relationships of novel Ru(II) dyes with N,N'-Diethyl group in ancillary ligand for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019, 171, 107754.	3.7	8
16	Asymmetric Dual Anchoring Sensitizers/Cosensitizers for Dye Sensitized Solar Cell Application: An Insight into Various Fundamental Processes inside the Cell. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24383-24395.	3.1	13
17	Low-cost Schiff bases chromophores as efficient co-sensitizers for MH-13 in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5081-5091.	2.2	15
18	Novel metal-free organic dyes constructed with the D-D A-Ĥ-A motif: Sensitization and co-sensitization study. <i>Solar Energy</i> , 2019, 194, 400-414.	6.1	28

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19	Structure-property relationships: “Double-tail versus double-flap” ruthenium complex structures for high efficiency dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 177, 724-736.	6.1	15
20	Enhancing photovoltaic performance of DSSCs sensitized with Ru-II complexes by D-π-A configured carbazole based co-sensitizers. <i>New Journal of Chemistry</i> , 2018, 42, 9443-9448.	2.8	19
21	Influence of brominated-TPA-stilbazole based ancillary ligand on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 150, 347-353.	3.7	9
22	New carbazole based dyes as effective co-sensitizers for DSSCs sensitized with ruthenium (II) complex (NCSU-10). <i>Journal of Energy Chemistry</i> , 2018, 27, 351-360.	12.9	57
23	New di-anchoring A-π-D-π-A configured organic chromophores for DSSC application: sensitization and co-sensitization studies. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 302-314.	2.9	47
24	Effect of terthiophene spacer position in Ru(II) bipyridyl complexes on the photocurrent and photovoltage for high efficiency dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 156, 348-356.	3.7	21
25	Synthesis, Characterization and Performance Studies of a New Metal-Free Organic Sensitizer for DSSC application. <i>Materials Today: Proceedings</i> , 2018, 5, 3150-3157.	1.8	12
26	Investigation of new carbazole based metal-free dyes as active photo-sensitizers/co-sensitizers for DSSCs. <i>Dyes and Pigments</i> , 2018, 149, 177-187.	3.7	56
27	Improvement in performance of N3 sensitized DSSCs with structurally simple aniline based organic co-sensitizers. <i>Solar Energy</i> , 2018, 174, 999-1007.	6.1	28
28	Highly efficient carbazole based co-sensitizers carrying electron deficient barbituric acid for NCSU-10 sensitized DSSCs. <i>Solar Energy</i> , 2018, 169, 386-391.	6.1	27
29	Co-sensitization of Ru(II) complex with terthiophene-based D-π-A metal-free organic dyes for highly efficient dye-sensitized solar cells: influence of anchoring group on molecular geometry and photovoltaic performance. <i>New Journal of Chemistry</i> , 2018, 42, 11430-11437.	2.8	25
30	Molecular engineering and synthesis of novel metal-free organic sensitizers with D-π-A-π-A architecture for DSSC applications: The effect of the anchoring group. <i>Dyes and Pigments</i> , 2018, 158, 121-130.	3.7	28
31	Synthesis and photovoltaic performance of a novel asymmetric dual-channel co-sensitizer for dye-sensitized solar cell beyond 10% efficiency. <i>Dyes and Pigments</i> , 2017, 141, 112-120.	3.7	38
32	Molecular design and theoretical investigation of new metal-free heteroaromatic dyes with D-π-A architecture as photosensitizers for DSSC application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 345, 63-73.	3.9	49
33	Improved photovoltaic performances of Ru (II) complex sensitized DSSCs by co-sensitization of carbazole based chromophores. <i>Inorganic Chemistry Communication</i> , 2017, 86, 241-245.	3.9	15
34	Structurally simple D-π-A-type organic sensitizers for dye-sensitized solar cells: effect of anchoring moieties on the cell performance. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2457-2466.	2.2	23
35	A Comparative Study on Two Ru(II) Complexes with Thiophene-Based Ancillary Ligands for High-Efficiency Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3690-3697.	2.0	18
36	New carbazole based metal-free organic dyes with D-π-A-π-A architecture for DSSCs: Synthesis, theoretical and cell performance studies. <i>Solar Energy</i> , 2017, 153, 600-610.	6.1	87

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37	From Molecular Design to Co-sensitization; High performance indole based photosensitizers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 198, 10-21.	5.2	36
38	New indole based co-sensitizers for dye sensitized solar cells exceeding 10% efficiency. <i>RSC Advances</i> , 2016, 6, 30205-30216.	3.6	34
39	Structural Studies on 4,5-Disubstituted 2-Aminoimidazole-Based Biofilm Modulators that Suppress Bacterial Resistance to β -Lactams. <i>ChemMedChem</i> , 2012, 7, 2030-2039.	3.2	24
40	Sulfur-Assisted Five-Cascade Sequential Reactions for the Convenient and Efficient Synthesis of Allyl Thiophen-2-yl Acetates, Propionates, and Ketones. <i>Organic Letters</i> , 2010, 12, 356-359.	4.6	45
41	The optimization of bellows convolutions in bellows pump for better stress distribution. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 0, , 095440622110641.	2.1	3