

# Mohamed R Elmorsy

## List of Publications by Year in descending order

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36  
papers

844  
citations

430874

18  
h-index

477307

29  
g-index

36  
all docs

36  
docs citations

36  
times ranked

528  
citing authors

#	ARTICLE	IF	CITATIONS
1	New carbazole based metal-free organic dyes with D- $\pi$ -A architecture for DSSCs: Synthesis, theoretical and cell performance studies. <i>Solar Energy</i> , 2017, 153, 600-610.	6.1	87
2	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
3	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
4	Molecular design and theoretical investigation of new metal-free heteroaromatic dyes with D- $\pi$ -A architecture as photosensitizers for DSSC application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 345, 63-73.	3.9	49
5	New di-anchoring A- $\pi$ -D- $\pi$ -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
6	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
7	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
8	New indole based co-sensitizers for dye sensitized solar cells exceeding 10% efficiency. <i>RSC Advances</i> , 2016, 6, 30205-30216.	3.6	34
9	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
10	Molecular engineering and synthesis of novel metal-free organic sensitizers with D- $\pi$ -A- $\pi$ -A architecture for DSSC applications: The effect of the anchoring group. <i>Dyes and Pigments</i> , 2018, 158, 121-130.	3.7	28
11	Novel metal-free organic dyes constructed with the D-D   A- $\pi$ -A motif: Sensitization and co-sensitization study. <i>Solar Energy</i> , 2019, 194, 400-414.	6.1	28
12	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
13	Co-sensitization of Ru(II) complex with terthiophene-based D- $\pi$ -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
14	Molecular geometry, synthesis and photovoltaic performance studies over 2-cyanoacetanilides as sensitizers and effective co-sensitizers for DSSCs loaded with HD-2. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112239.	3.9	24
15	Structurally simple D- $\pi$ -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
16	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
17	Structural studies and photovoltaic investigation of indolo[2,3- <i>b</i> ]quinoxaline-based sensitizers/co-sensitizers achieving highly efficient DSSCs. <i>New Journal of Chemistry</i> , 2020, 44, 2797-2812.	2.8	20
18	Enhancing photovoltaic performance of DSSCs sensitized with Ru-II complexes by D- $\pi$ -A configured carbazole based co-sensitizers. <i>New Journal of Chemistry</i> , 2018, 42, 9443-9448.	2.8	19

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19	Low cost carbazole-based organic dyes bearing the acrylamide and 2-pyridone moieties for efficient dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 426, 113760.	3.9	19
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	Efficient co-sensitization of novel trimethoxybenzene-based dyes with N-719 for highly efficient dye-sensitized solar cells. <i>Optical Materials</i> , 2022, 128, 112344.	3.6	11
29	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
30	Theoretical studies, anticancer activity, and photovoltaic performance of newly synthesized carbazole-based dyes. <i>Journal of Molecular Structure</i> , 2022, 1255, 132404.	3.6	9
31	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
32	Unorthodox synthesis, biological activity and DFT studies of novel and multifunctionalized naphthoxocine derivatives. <i>RSC Advances</i> , 2019, 9, 27996-28005.	3.6	8
33	Carbazole based organic dyes as effective photosensitizers: A comprehensive analysis of their structure-property relationships. <i>Electrochemical Science Advances</i> , 2022, 2, e2100061.	2.8	7
34	Design and synthesis of novel bichalcophene derivatives with double anchoring groups for dye-sensitized solar cell applications: sensitization and co-sensitization with N-719. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15665-15678.	2.2	2
35	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
36	Synthesis of Novel Phenoxyacetamide Derivatives as Potential Insecticidal Agents Against the Cotton Leafworm, <i>Spodoptera littoralis</i> . <i>Polycyclic Aromatic Compounds</i> , 2023, 43, 356-369.	2.6	1