Hytham Elbohy

List of Publications by Year
in descending order

37 papers	1,387 citations	331670 21 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	2091 citing authors

#	Article	IF	Citations
1	Kinetic Monte Carlo Simulation of Perovskite Solar Cells to Probe Film Coverage and Thickness. Advanced Energy and Sustainability Research, 2021, 2, 2000068.	5.8	3
2	An insight into device performance and hysteresis in dye-sensitized solar cell using 5-aminovaleric acid and 5-aminovaleric acid hydrochloride as electrolyte additives. Solar Energy, 2021, 221, 375-383.	6.1	5
3	Tailored PEDOT:PSS hole transport layer for higher performance in perovskite solar cells: Enhancement of electrical and optical properties with improved morphology. Journal of Energy Chemistry, 2020, 44, 41-50.	12.9	105
4	Nanoscale control of grain boundary potential barrier, dopant density and filled trap state density for higher efficiency perovskite solar cells. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 409-423.	17.3	25
5	Synergistic engineering of hole transport materials in perovskite solar cells. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 928-941.	17.3	29
6	Tailoring the Grain Boundaries of Wideâ€Bandgap Perovskite Solar Cells by Molecular Engineering. Solar Rrl, 2020, 4, 2000384.	5.8	15
7	Hysteresis analysis in dye-sensitized solar cell based on different metal alkali cations in the electrolyte. Electrochimica Acta, 2019, 319, 110-117.	5.2	13
8	Tuning Hole Transport Layer Using Urea for Highâ€Performance Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1806740.	14.9	101
9	Creation of oxygen vacancies to activate WO₃ for higher efficiency dye-sensitized solar cells. Sustainable Energy and Fuels, 2018, 2, 403-412.	4.9	45
10	Self-recovery in Li-metal hybrid lithium-ion batteries <i>via</i> WO₃ reduction. Nanoscale, 2018, 10, 15956-15966.	5.6	87
11	Efficiency Enhancement in Plasmonic Dye-Sensitized Solar Cell Employing High Performance TiO2 Photoanode Doped with Silver Nanoparticles. International Journal of Sustainable Energy and Environmental Research, 2018, 7, 44-52.	1.3	3
12	Photovoltaic performance and impedance spectroscopy of a purely organic dye and most common metallic dye based dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 6552-6559.	2.2	16
13	Alternative benzodithiophene (BDT) based polymeric hole transport layer for efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 168, 8-13.	6.2	37
14	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. Scientific Reports, 2017, 7, 1440.	3.3	56
15	Urea-Treated Electrolytes for Higher Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2017, 121, 21225-21230.	3.1	15
16	Environmentally Friendly Plasma-Treated PEDOT:PSS as Electrodes for ITO-Free Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 35861-35870.	8.0	71
17	Plasmonic silver nanowires for higher efficiency dye-sensitized solar cells. Materials Today Energy, 2017, 5, 237-242.	4.7	13
18	Tin Selenide â€“ Multi-Walled Carbon Nanotubes Hybrid Anodes for High Performance Lithium-Ion Batteries. Electrochimica Acta, 2016, 211, 720-725.	5.2	105

#	ARTICLE	IF	CITATIONS
19	Urea treated WO<inf>3</inf> and SnO<inf>2</inf> as cost effective and efficient counter electrodes of dye sensitized solar cells. , 2016, , .		2
20	A Simple Cost-Effective Approach to Enhance Performance of Bifacial Dye-Sensitized Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 912-917.	2.5	16
21	Functionalized Carboxylate Deposition for rapid sensitization of dye-sensitized solar cells. Solar Energy, 2016, 126, 128-136.	6.1	1
22	Electrospun carbon nano-felt derived from alkali lignin for cost-effective counter electrodes of dye-sensitized solar cells. RSC Advances, 2016, 6, 11481-11487.	3.6	45
23	Synthesis, modeling and photovoltaic properties of a benzothiadiazole based molecule for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 4501-4507.	2.2	16
24	Graphene-beaded carbon nanofibers with incorporated Ni nanoparticles as efficient counter-electrode for dye-sensitized solar cells. Nano Energy, 2016, 22, 558-563.	16.0	66
25	Incorporation of plasmonic Au nanostars into photoanodes for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 545-551.	10.3	47
26	Investigation of novel anthracene-bridged carbazoles as sensitizers and Co-sensitizers for dye-sensitized solar cells. International Journal of Energy Research, 2015, 39, 1335-1344.	4.5	12
27	Vanadium oxide as new charge recombination blocking layer for high efficiency dye-sensitized solar cells. Nano Energy, 2015, 13, 368-375.	16.0	39
28	Characteristics of SnO2 nanofiber/TiO2 nanoparticle composite for dye-sensitized solar cells. AIP Advances, 2015, 5, .	1.3	34
29	Graphene-embedded carbon nanofibers decorated with Pt nanoneedles for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 17721-17727.	10.3	47
30	Dye-Sensitized Solar Cells Based on Porous Hollow Tin Oxide Nanofibers. IEEE Transactions on Electron Devices, 2015, 62, 2027-2032.	3.0	29
31	Interface Modification of Inverted Structure PSBTBT:PC₇₀BM Solar Cells for Improved Performance. IEEE Journal of Photovoltaics, 2015, 5, 1659-1664.	2.5	8
32	Electrospun carbon nanofibers with surface-attached platinum nanoparticles as cost-effective and efficient counter electrode for dye-sensitized solar cells. Nano Energy, 2015, 11, 550-556.	16.0	88
33	Incorporation of <inline-formula> <tex-math notation="TeX">${m TiO}_{2}$ </tex-math></inline-formula> Nanoparticles Into <inline-formula> <tex-math notation="TeX">${m SnO}_{2}$ </tex-math></inline-formula> Nanofibers for Higher Efficiency Dye-Sensitized Solar Cells. IEEE Electron Device Letters, 2014, 35, 578-580.	3.9	21
34	Improved performance of dye solar cells using nanocarbon as support for platinum nanoparticles in counter electrode. Nano Energy, 2014, 5, 116-121.	16.0	35
35	TiO2 coated urchin-like SnO2 microspheres for efficient dye-sensitized solar cells. Nano Research, 2014, 7, 1154-1163.	10.4	66
36	Dye-sensitized solar cells based on spray-coated carbon nanofiber/TiO2 nanoparticle composite counter electrodes. Journal of Materials Chemistry A, 2014, 2, 11448.	10.3	61

#	Article	IF	Citations
37	Evaluation of Counter Electrodes Composed by Carbon Nanofibers and Nanoparticles in Dye-Sensitized Solar Cells. IEEE Transactions on Electron Devices, 2013, 60, 3883-3887.	3.0	10