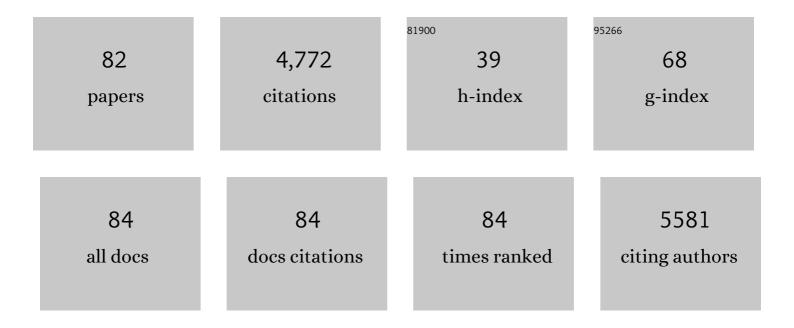
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Novel trifluoropropoxy-substituted asymmetric carbazole derivatives as efficient and hydrophobic hole transporting materials for high-performance and stable perovskite solar cells. Chemical Engineering Journal, 2022, 428, 131108.	12.7	22
2	Nanocrystal co-existed highly dense atomically disperse Pt@3D-hierarchical porous carbon electrocatalysts for tri-iodide and oxygen reduction reactions. Chemical Engineering Journal, 2022, 446, 137249.	12.7	16
3	Porphyrin sensitizers with acceptor structural engineering for dye-sensitized solar cells. Dyes and Pigments, 2021, 187, 109082.	3.7	14
4	In-depth understanding of the energy loss and efficiency limit of dye-sensitized solar cells under outdoor and indoor conditions. Journal of Materials Chemistry A, 2021, 9, 24830-24848.	10.3	28
5	Three-dimensional tellurium and nitrogen Co-doped mesoporous carbons for high performance supercapacitors. RSC Advances, 2021, 11, 8628-8635.	3.6	10
6	Mechanism for Preserving Volatile Nitrogen Dioxide and Sustainable Redox Mediation in the Nonaqueous Lithium–Oxygen Battery. ACS Applied Materials & Interfaces, 2021, 13, 8159-8168.	8.0	3
7	Dopant-free hole transporting polymeric materials based on pyrroloindacenodithiophene donor unit for efficient perovskite solar cells. Dyes and Pigments, 2021, 192, 109432.	3.7	8
8	Highly efficient gel electrolytes by end group modified PEG-based ABA triblock copolymers for quasi-solid-state dye-sensitized solar cells. Chemical Engineering Journal, 2021, 420, 129899.	12.7	18
9	D-ï€-A-structured organic sensitizers with ï€-extended auxiliary acceptor units for high-performance dye-sensitized solar cells. Dyes and Pigments, 2021, 195, 109681.	3.7	24
10	Well-dispersed Te-doped mesoporous carbons as Pt-free counter electrodes for high-performance dye-sensitized solar cells. Dalton Transactions, 2021, 50, 9399-9409.	3.3	15
11	PAN-Based Triblock Copolymers Tailor-Made by Reversible Addition–Fragmentation Chain Transfer Polymerization for High-Performance Quasi-Solid State Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2021, 4, 1302-1312.	5.1	12
12	<i>In situ</i> preparation of Ru–N-doped template-free mesoporous carbons as a transparent counter electrode for bifacial dye-sensitized solar cells. Nanoscale, 2020, 12, 1602-1616.	5.6	26
13	Tellurium-Doped, Mesoporous Carbon Nanomaterials as Transparent Metal-Free Counter Electrodes for High-Performance Bifacial Dye-Sensitized Solar Cells. Nanomaterials, 2020, 10, 29.	4.1	18
14	Recent progress on nanostructured carbon-based counter/back electrodes for high-performance dye-sensitized and perovskite solar cells. Nanoscale, 2020, 12, 17590-17648.	5.6	48
15	Polymer Gel Electrolytes Based on PEG-Functionalized ABA Triblock Copolymers for Quasi-Solid-State Dye-Sensitized Solar Cells: Molecular Engineering and Key Factors. ACS Applied Materials & Interfaces, 2020, 12, 42067-42080.	8.0	28
16	Dopant-Free Triazatruxene-Based Hole Transporting Materials with Three Different End-Capped Acceptor Units for Perovskite Solar Cells. Nanomaterials, 2020, 10, 936.	4.1	8
17	14.2% Efficiency Dyeâ€Sensitized Solar Cells by Coâ€sensitizing Novel Thieno[3,2â€ <i>b</i>]indoleâ€Based Organic Dyes with a Promising Porphyrin Sensitizer. Advanced Energy Materials, 2020, 10, 2000124.	19.5	216
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Dyeâ€Sensitized Solar Cells: 14.2% Efficiency Dyeâ€Sensitized Solar Cells by Coâ€sensitizing Novel Thieno[3,2â€<i>b</i>]indoleâ€Based Organic Dyes with a Promising Porphyrin Sensitizer (Adv. Energy) Tj ETQq0 0 DrgBT /Overlock 10

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19	A facile route to well-dispersed Ru nanoparticles embedded in self-templated mesoporous carbons for high-performance supercapacitors. Journal of Materials Chemistry A, 2019, 7, 20208-20222.	10.3	28
20	Molecular design and synthesis of D–π–A structured porphyrin dyes with various acceptor units for dye-sensitized solar cells. Journal of Materials Chemistry C, 2019, 7, 2843-2852.	5.5	73
21	Dâ~'π–A-Structured Porphyrins with Extended Auxiliary Ï€-Spacers for Highly Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 24067-24077.	8.0	46
22	Well-defined triblock copolymer/TiO ₂ composite gel electrolytes for high-performance dye-sensitized solar cells. Journal of Materials Chemistry A, 2019, 7, 14743-14752.	10.3	22
23	Phenothiazine Functionalized Multifunctional Aâ~ï€â€"Dâ~ï€â€"Dâ~ï€â€"A-Type Hole-Transporting Materials via Sequential C–H Arylation Approach for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 14011-14022.	8.0	51
24	Soft-Templated Tellurium-Doped Mesoporous Carbon as a Pt-Free Electrocatalyst for High-Performance Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 2093-2102.	8.0	37
25	Novel π-extended porphyrin-based hole-transporting materials with triarylamine donor units for high performance perovskite solar cells. Dyes and Pigments, 2019, 163, 734-739.	3.7	27
26	Exploratory synthesis and photovoltaic performance comparison of D–π–A structured Zn-porphyrins for dye-sensitized solar cells. Dyes and Pigments, 2018, 149, 341-347.	3.7	24
27	Significant Influence of a Single Atom Change in Auxiliary Acceptor on Photovoltaic Properties of Porphyrin-Based Dye-Sensitized Solar Cells. Nanomaterials, 2018, 8, 1030.	4.1	9
28	Comparative study of edge-functionalized graphene nanoplatelets as metal-free counter electrodes for highly efficient dye-sensitized solar cells. Materials Today Energy, 2018, 9, 67-73.	4.7	34
29	Rational design criteria for D–ï€â€"A structured organic and porphyrin sensitizers for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2018, 6, 14518-14545.	10.3	256
30	Comparative Study of Edge-Functionalized Graphene Nanoplatelets As Superior Metal-Free Counter Electrodes for Dye-Sensitized Solar Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
31	Porphyrin Sensitizers Sensitizers Exceeding a World Champion Porphyrin Dye for Dye-Sensitized Solar Cells and Their Tandem Solar Cells. ECS Meeting Abstracts, 2018, , .	0.0	Ο
32	Significant light absorption enhancement by a single heterocyclic unit change in the π-bridge moiety from thieno[3,2-b]benzothiophene to thieno[3,2-b]indole for high performance dye-sensitized and tandem solar cells. Journal of Materials Chemistry A, 2017, 5, 2297-2308.	10.3	200
33	Porphyrin Sensitizers with Donor Structural Engineering for Superior Performance Dyeâ€Sensitized Solar Cells and Tandem Solar Cells for Water Splitting Applications. Advanced Energy Materials, 2017, 7, 1602117.	19.5	193
34	Simple synthesis and molecular engineering of low-cost and star-shaped carbazole-based hole transporting materials for highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 20263-20276.	10.3	92
35	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. RSC Advances, 2017, 7, 35565-35574.	3.6	31
36	A versatile platform for lanthanide(<scp>iii</scp>)-containing organogelators: fabrication of the Er(<scp>iii</scp>)-incorporated polymer nanocomposite from an organogel template. New Journal of Chemistry, 2017, 41, 12366-12370.	2.8	8

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37	Triphenylamine-based organic sensitizers with ï€-spacer structural engineering for dye-sensitized solar cells: Synthesis, theoretical calculations, molecular spectroscopy and structure-property-performance relationships. Dyes and Pigments, 2017, 136, 496-504.	3.7	49
38	Edge-selectively antimony-doped graphene nanoplatelets as an outstanding counter electrode with an unusual electrochemical stability for dye-sensitized solar cells employing cobalt electrolytes. Journal of Materials Chemistry A, 2016, 4, 9029-9037.	10.3	33
39	In situ real-time and quantitative investigation on the stability of non-aqueous lithium oxygen battery electrolytes. Journal of Materials Chemistry A, 2016, 4, 6332-6341.	10.3	30
40	Metalloid tellurium-doped graphene nanoplatelets as ultimately stable electrocatalysts for cobalt reduction reaction in dye-sensitized solar cells. Nano Energy, 2016, 30, 867-876.	16.0	49
41	Edge-selenated graphene nanoplatelets as durable metal-free catalysts for iodine reduction reaction in dye-sensitized solar cells. Science Advances, 2016, 2, e1501459.	10.3	88
42	Unassisted photoelectrochemical water splitting exceeding 7% solar-to-hydrogen conversion efficiency using photon recycling. Nature Communications, 2016, 7, 11943.	12.8	144
43	Two-terminal DSSC/silicon tandem solar cells exceeding 18% efficiency. Energy and Environmental Science, 2016, 9, 3657-3665.	30.8	41
44	Organic Dyes with Wellâ€Defined Structures for Highly Efficient Dyeâ€Sensitised Solar Cells Based on a Cobalt Electrolyte. Chemistry - A European Journal, 2015, 21, 14804-14811.	3.3	36
45	Thieno[3,2â€ <i>b</i>][1]benzothiophene Derivative as a New Ï€â€Bridge Unit in D–Ĩ€â€"A Structural Organic Sensitizers with Over 10.47% Efficiency for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500300.	19.5	138
46	Dyeâ€Sensitized Tandem Solar Cells with Extremely High Openâ€Circuit Voltage Using Co(II)/Co(III) Electrolyte. Israel Journal of Chemistry, 2015, 55, 1002-1010.	2.3	3
47	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). Advanced Functional Materials, 2015, 25, 1328-1328.	14.9	6
48	D–Ĩ€â€"A organic dyes with various bulky amine-typed donor moieties for dye-sensitized solar cells employing the cobalt electrolyte. Organic Electronics, 2015, 25, 1-5.	2.6	16
49	Copolymer-templated nitrogen-enriched nanocarbons as a low charge-transfer resistance and highly stable alternative to platinum cathodes in dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 4413-4419.	10.3	45
50	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye‣ensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	14.9	174
51	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. Nano Energy, 2015, 13, 336-345.	16.0	85
52	Novel Carbazole-Based Hole-Transporting Materials with Star-Shaped Chemical Structures for Perovskite-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 22213-22217.	8.0	104
53	New thieno[3,2-b][1]benzothiophene-based organic sensitizers containing ï€-extended thiophene spacers for efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 80859-80870.	3.6	16
54	A Near-IR Organic Sensitizer with Squaraine and Phenothiazine Unit for Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 600, 116-122.	0.9	1

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55	Graphene Nanoplatelets Doped with N at its Edges as Metalâ€Free Cathodes for Organic Dyeâ€Sensitized Solar Cells. Advanced Materials, 2014, 26, 3055-3062.	21.0	140
56	B-Doped Graphene as an Electrochemically Superior Metal-Free Cathode Material As Compared to Pt over a Co(II)/Co(III) Electrolyte for Dye-Sensitized Solar Cell. Chemistry of Materials, 2014, 26, 3586-3591.	6.7	57
57	Edge-carboxylated graphene nanoplatelets as oxygen-rich metal-free cathodes for organic dye-sensitized solar cells. Energy and Environmental Science, 2014, 7, 1044-1052.	30.8	82
58	14.8% perovskite solar cells employing carbazole derivatives as hole transporting materials. Chemical Communications, 2014, 50, 14161-14163.	4.1	159
59	Quinoxaline Dendrimers at the Air–Aqueous Interface and Their Photoluminescent Properties. Chemistry Letters, 2014, 43, 1303-1305.	1.3	1
60	Lanthanide(III) dendrimer complexes based on diphenylquinoxaline derivatives for photonic amplification. Macromolecular Research, 2013, 21, 556-564.	2.4	7
61	Dual-channel anchorable organic dyes with well-defined structures for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 9947.	10.3	48
62	Dyeâ€Sensitized Solar Cells based on Organic Dualâ€Channel Anchorable Dyes with Wellâ€Defined Core Bridge Structures. ChemSusChem, 2013, 6, 2069-2073.	6.8	27
63	A new tetrakis β-diketone ligand for NIR emitting LnIII ions: luminescent doped PMMA films and flexible resins for advanced photonic applications. Journal of Materials Chemistry C, 2013, 1, 6935.	5.5	85
64	Dual-channel anchorable organic dye with triphenylamine-based core bridge unit for dye-sensitized solar cells. Dyes and Pigments, 2013, 99, 599-606.	3.7	23
65	Nb-doped TiO2 nanoparticles for organic dye-sensitized solar cells. RSC Advances, 2013, 3, 16380.	3.6	75
66	Novel D–ï€â€"A structured porphyrin dyes with diphenylamine derived electron-donating substituents for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 3977.	10.3	75
67	Structural effect of carbazole-based coadsorbents on the photovoltaic performance of organic dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 9114.	10.3	42
68	Novel D–π–A structured Zn(ii)–porphyrin dyes with bulky fluorenyl substituted electron donor moieties for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 9848.	10.3	43
69	N-Doped Graphene Nanoplatelets as Superior Metal-Free Counter Electrodes for Organic Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 5243-5250.	14.6	238
70	Biphenylene-bridged mesostructured organosilica as a novel hybrid host material for LnIII (Ln = Eu, Gd,) Tj ETQq(3454.	0 0 0 rgBT 5.5	Overlock 10 42
71	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. Scientific Reports, 2013, 3, 2260.	3.3	204
72	Novel D–π–A structured Zn(ii)-porphyrin dyes containing a bis(3,3-dimethylfluorenyl)amine moiety for	4.1	91

Novel $D\hat{a} \in \hat{I} \hat{a} \in A$ structured Zn(ii)-porphyrin dyes containing a bis(3,3-dimethylfluorenyl)amine moiety for dye-sensitised solar cells. Chemical Communications, 2012, 48, 9349. 4.1 72

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73	Ln(iii)-cored complexes based on boron dipyrromethene (Bodipy) ligands for NIR emission. New Journal of Chemistry, 2012, 36, 723-731.	2.8	21
74	A simple triaryl amine-based dual functioned co-adsorbent for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 3786.	6.7	65
75	A Desirable Holeâ€Conducting Coadsorbent for Highly Efficient Dyeâ€Sensitized Solar Cells through an Organic Redox Cascade Strategy. Chemistry - A European Journal, 2011, 17, 11115-11121.	3.3	85
76	Organic dyes incorporating low-band-gap chromophores based on π-extended benzothiadiazole for dye-sensitized solar cells. Dyes and Pigments, 2011, 91, 192-198.	3.7	160
77	Novel D-Ï€-A system based on zinc-porphyrin derivatives for highly efficient dye-sensitised solar cells. Tetrahedron Letters, 2011, 52, 3879-3882.	1.4	57
78	Novel Erbium(III)-encapsulated complexes based on ï€-extended anthracene ligands bearing G3-aryl-ether dendron: synthesis and photophysical studies. Macromolecular Research, 2009, 17, 672-681.	2.4	0
79	Functionalized alkyne bridged dendron based chromophores for dye-sensitized solar cell applications. Energy and Environmental Science, 2009, 2, 1082.	30.8	29
80	White Light-Emitting Diodes from Novel Silicon-Based Copolymers Containing Both Electron-Transport Oxadiazole and Hole-Transport Carbazole Moieties in the Main Chainâ€. Macromolecules, 2002, 35, 6782-6791.	4.8	114
81	Palladium-Catalyzed Direct Synthesis, Photophysical Properties, and Tunable Electroluminescence of Novel Silicon-Based Alternating Copolymers. Macromolecules, 2000, 33, 9277-9288.	4.8	90
82	Porous Carbon Materials as Supreme Metal-Free Counter Electrode for Dye-Sensitized Solar Cells. , 0, , .		1