

Kasparas Rakstys

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly Planar Benzodipyrrole-Based Hole Transporting Materials with Passivation Effect for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100667.	5.8	11
2	Green-Chemistry-Inspired Synthesis of Cyclobutane-Based Hole-Selective Materials for Highly Efficient Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
3	Green-Chemistry-Inspired Synthesis of Cyclobutane-Based Hole-Selective Materials for Highly Efficient Perovskite Solar Cells and Modules. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	23
4	Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22053-22060.	8.0	8
5	Fluorene-based enamines as low-cost and dopant-free hole transporting materials for high performance and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 301-309.	10.3	25
6	Engineering fluorinated-cation containing inverted perovskite solar cells with an efficiency of >21% and improved stability towards humidity. <i>Nature Communications</i> , 2021, 12, 52.	12.8	94
7	Isomeric Carbazole-Based Hole-Transporting Materials: Role of the Linkage Position on the Photovoltaic Performance of Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 3286-3296.	6.7	25
8	Stable Perovskite Solar Cells Using Molecularly Engineered Functionalized Oligothiophenes as Low-Cost Hole-Transporting Materials. <i>Small</i> , 2021, 17, e2100783.	10.0	19
9	Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 6059-6067.	6.7	7
10	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2021, 133, 20652-20660.	2.0	6
11	Branched Methoxydiphenylamine-Substituted Carbazole Derivatives for Efficient Perovskite Solar Cells: Bigger Is Not Always Better. <i>Chemistry of Materials</i> , 2021, 33, 7017-7027.	6.7	11
12	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20489-20497.	13.8	56
13	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. <i>Nature Communications</i> , 2021, 12, 6394.	12.8	98
14	Precursor Route Poly(1,4-phenylenevinylene)-Based Interlayers for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 889-899.	5.1	11
15	Dâ€“iâ€“Aâ€“Type Triazatruxene-Based Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000173.	5.8	33
16	Carbazole-Terminated Isomeric Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19710-19717.	8.0	28
17	Perovskite Solar Cells: 18% Efficiency Using Zn(II) and Cu(II) Octakis(diarylamine)phthalocyanines as Hole-Transporting Materials. <i>ACS Applied Energy Materials</i> , 2019, 2, 6195-6199.	5.1	12
18	Efficiency vs. stability: dopant-free hole transporting materials towards stabilized perovskite solar cells. <i>Chemical Science</i> , 2019, 10, 6748-6769.	7.4	191

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19	Diphenylamine-Substituted Carbazole-Based Hole Transporting Materials for Perovskite Solar Cells: Influence of Isomeric Derivatives. <i>Advanced Functional Materials</i> , 2018, 28, 1704351.	14.9	95
20	Solution processed organic light-emitting diodes using a triazatruxene crosslinkable hole transporting material. <i>RSC Advances</i> , 2018, 8, 35719-35723.	3.6	19
21	Pyridination of hole transporting material in perovskite solar cells questions the long-term stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8874-8878.	5.5	67
22	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. <i>Nano Energy</i> , 2017, 32, 551-557.	16.0	97
23	Molecular engineering of face-on oriented dopant-free hole transporting material for perovskite solar cells with 19% PCE. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7811-7815.	10.3	209
24	Dopant-Free Hole-Transporting Materials for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606555.	21.0	171
25	Low-Cost Perovskite Solar Cells Employing Dimethoxydiphenylamine-Substituted Bistricyclic Aromatic Enes as Hole Transport Materials. <i>ChemSusChem</i> , 2017, 10, 3825-3832.	6.8	37
26	Weakly Conjugated Hybrid Zinc Porphyrin Sensitizers for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 5550-5559.	14.9	31
27	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylidene-Based Hole-Transporting Material. <i>Angewandte Chemie</i> , 2016, 128, 7590-7594.	2.0	37
28	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylidene-Based Hole-Transporting Material. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7464-7468.	13.8	165
29	Donor-acceptor donor type hole transporting materials: marked bridge effects on optoelectronic properties, solid-state structure, and perovskite solar cell efficiency. <i>Chemical Science</i> , 2016, 7, 6068-6075.	7.4	85
30	Perovskite Solar Cells Employing Molecularly Engineered Zn(II) Phthalocyanines as Hole-transporting Materials. <i>Nano Energy</i> , 2016, 30, 853-857.	16.0	52
31	A highly hindered bithiophene-functionalized dispiro-oxepine derivative as an efficient hole transporting material for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18259-18264.	10.3	78
32	Efficiency enhancement of perovskite solar cells via incorporation of phenylethenyl side arms into indolocarbazole-based hole transporting materials. <i>Nanoscale</i> , 2016, 8, 8530-8535.	5.6	39
33	Rational design of triazatruxene-based hole conductors for perovskite solar cells. <i>RSC Advances</i> , 2015, 5, 53426-53432.	3.6	64
34	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 16172-16178.	13.7	321
35	A structural study of 1-phenyl-1,2,3,4-tetrahydroquinoline-based dyes for solid-state DSSC applications. <i>Dyes and Pigments</i> , 2014, 104, 211-219.	3.7	18
36	Blue-Coloured Highly Efficient Dye-Sensitized Solar Cells by Implementing the Diketopyrrolopyrrole Chromophore. <i>Scientific Reports</i> , 2013, 3, 2446.	3.3	143

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37	Diketopyrrolopyrrole-based sensitizers for dye-sensitized solar cell applications: anchor engineering. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13978.	10.3	45
38	A structural study of DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , 2012, 48, 10724.	4.1	68
39	Towards high-performance DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , 2012, 48, 10727.	4.1	76
40	Fluorene-based enamines as low-cost and dopant-free hole transporting materials for high performance and stable perovskite solar cells. , 0, , .		0
41	Interfacial material engineering for the perovskite solar cell stability improvement. , 0, , .		0