

# Kasparas Rakstys

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,579  
citations

236612

25  
h-index

301761

39  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 16172-16178.	6.6	321
2	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.	5.2	209
3	Efficiency vs. stability: dopant-free hole transporting materials towards stabilized perovskite solar cells. <i>Chemical Science</i> , 2019, 10, 6748-6769.	3.7	191
4	Dopant-Free Hole-Transporting Materials for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606555.	11.1	171
5	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylidene-Based Hole-Transporting Material. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7464-7468.	7.2	165
6	Blue-Coloured Highly Efficient Dye-Sensitized Solar Cells by Implementing the Diketopyrrolopyrrole Chromophore. <i>Scientific Reports</i> , 2013, 3, 2446.	1.6	143
7	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. <i>Nature Communications</i> , 2021, 12, 6394.	5.8	98
8	Carbazole-based enamine: Low-cost and efficient hole transporting material for perovskite solar cells. <i>Nano Energy</i> , 2017, 32, 551-557.	8.2	97
9	Diphenylamine-Substituted Carbazole-Based Hole Transporting Materials for Perovskite Solar Cells: Influence of Isomeric Derivatives. <i>Advanced Functional Materials</i> , 2018, 28, 1704351.	7.8	95
10	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.	5.8	94
11	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.	3.7	85
12	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.	5.2	78
13	Towards high-performance DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , 2012, 48, 10727.	2.2	76
14	A structural study of DPP-based sensitizers for DSC applications. <i>Chemical Communications</i> , 2012, 48, 10724.	2.2	68
15	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.	2.7	67
16	Rational design of triazatruxene-based hole conductors for perovskite solar cells. <i>RSC Advances</i> , 2015, 5, 53426-53432.	1.7	64
17	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.	7.2	56
18	Perovskite Solar Cells Employing Molecularly Engineered Zn(II) Phthalocyanines as Hole-transporting Materials. <i>Nano Energy</i> , 2016, 30, 853-857.	8.2	52

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19	Diketopyrrolopyrrole-based sensitizers for dye-sensitized solar cell applications: anchor engineering. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13978.	5.2	45
20	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.	2.8	39
21	Highly Efficient Perovskite Solar Cells Employing an Easily Attainable Bifluorenylidene-Based Hole-Transporting Material. <i>Angewandte Chemie</i> , 2016, 128, 7590-7594.	1.6	37
22	Low-Cost Perovskite Solar Cells Employing Dimethoxydiphenylamine-Substituted Bistricyclic Aromatic Enes as Hole Transport Materials. <i>ChemSusChem</i> , 2017, 10, 3825-3832.	3.6	37
23	D-π-A-Type Triazatruxene-Based Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000173.	3.1	33
24	Weakly Conjugated Hybrid Zinc Porphyrin Sensitizers for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 5550-5559.	7.8	31
25	Carbazole-Terminated Isomeric Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19710-19717.	4.0	28
26	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.	5.2	25
27	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.	3.2	25
28	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, .	7.2	23
29	Solution processed organic light-emitting diodes using a triazatruxene crosslinkable hole transporting material. <i>RSC Advances</i> , 2018, 8, 35719-35723.	1.7	19
30	Stable Perovskite Solar Cells Using Molecularly Engineered Functionalized Oligothiophenes as Low-Cost Hole-Transporting Materials. <i>Small</i> , 2021, 17, e2100783.	5.2	19
31	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.	2.0	18
32	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.	2.5	12
33	Precursor Route Poly(1,4-phenylenevinylene)-Based Interlayers for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 889-899.	2.5	11
34	Branched Methoxydiphenylamine-Substituted Carbazole Derivatives for Efficient Perovskite Solar Cells: Bigger Is Not Always Better. <i>Chemistry of Materials</i> , 2021, 33, 7017-7027.	3.2	11
35	Highly Planar Benzodipyrrole-Based Hole Transporting Materials with Passivation Effect for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100667.	3.1	11
36	Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 22053-22060.	4.0	8

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37	Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 6059-6067.	3.2	7
38	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2021, 133, 20652-20660.	1.6	6
39	Green-Chemistry-Inspired Synthesis of Cyclobutane-Based Hole-Selective Materials for Highly Efficient Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
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