

Felix T Eickemeyer

List of Publications by Citations

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28
papers

2,548
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h-index

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31
ext. papers

4,117
ext. citations

18.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
28	Pseudo-halide anion engineering for FAPbI perovskite solar cells. <i>Nature</i> , 2021 , 592, 381-385	50.4	814
27	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257
26	Intramolecular Charge-Transfer Tuning of Perylenes: Spectroscopic Features and Performance in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15137-15140	3.8	217
25	Conformal quantum dot-SnO layers as electron transporters for efficient perovskite solar cells.. <i>Science</i> , 2022 , 375, 302-306	33.3	181
24	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
23	Ladder-Type Pentaphenylene Dyes for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2008 , 20, 1808-1815	11.5	118
22	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15688-15694	16.4	115
21	A Broadly Absorbing Perylene Dye for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14595-14597	3.8	76
20	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3231-3237	16.4	73
19	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19980-19991	16.4	72
18	A molecular photosensitizer achieves a V of 1.24 V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. <i>Nature Communications</i> , 2021 , 12, 1777	17.4	67
17	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. <i>ACS Energy Letters</i> , 2020 , 5, 2223-2230	20.1	60
16	Perylenes as sensitizers in hybrid solar cells: how molecular size influences performance. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5405		55
15	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021 , 5, 1587-1601	27.8	45
14	Correlation between Photoluminescence and Carrier Transport and a Simple In Situ Passivation Method for High-Bandgap Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3289-3298	6.4	39
13	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. <i>ACS Energy Letters</i> , 2021 , 6, 208-215	20.1	30
12	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2021 , 14, 5552-5562	35.4	20

11	Multimodal host-guest complexation for efficient and stable perovskite photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3383	17.4	17
10	Photoinduced electron transfer from a terrylene dye to TiO ₂ : Quantification of band edge shift effects. <i>Chemical Physics</i> , 2009 , 357, 124-131	2.3	16
9	Solution-Processed Bil Films with 1.1 eV Quasi-Fermi Level Splitting: The Role of Water, Temperature, and Solvent during Processing. <i>ACS Omega</i> , 2018 , 3, 12713-12721	3.9	15
8	Ti ³⁺ graphene single-atom material for improved energy level alignment in perovskite solar cells. <i>Nature Energy</i> , 2021 , 6, 1154-1163	62.3	14
7	Zinc Phthalocyanine Conjugated Dimers as Efficient Dopant-Free Hole Transporting Materials in Perovskite Solar Cells. <i>ChemPhotoChem</i> , 2020 , 4, 307-314	3.3	14
6	Formation of High-Performance Multi-Cation Halide Perovskites Photovoltaics by ECsPbI ₃ /ERbPbI ₃ Seed-Assisted Heterogeneous Nucleation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003785	21.8	14
5	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie</i> , 2020 , 132, 15818-15824	3.6	11
4	Benzylammonium-Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101163	15.6	10
3	Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. <i>ACS Energy Letters</i> , 3650-3660	20.1	8
2	Cyclopentadiene-Based Hole-Transport Material for Cost-Reduced Stabilized Perovskite Solar Cells with Power Conversion Efficiencies Over 23%. <i>Advanced Energy Materials</i> , 2021 , 11, 2003953	21.8	4
1	Efficient and Stable Large Bandgap MAPbBr ₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. <i>ACS Energy Letters</i> , 2022 , 7, 1112-1119	20.1	4