

# Mohamad K Nazeeruddin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

736 papers	120,593 citations	153 h-index	334 g-index
790 ext. papers	129,911 ext. citations	11.5 avg, IF	8.54 L-index

#	Paper	IF	Citations
736	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , <b>2022</b> , 6, 8-15	27.8	14
735	Three-terminal perovskite/integrated back contact silicon tandem solar cells under low light intensity conditions <b>2022</b> , 1, 148-156		9
734	Highly Planar Benzodipyrrole-Based Hole Transporting Materials with Passivation Effect for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2022</b> , 6, 2100667	7.1	2
733	Deconvolution of Light-Induced Ion Migration Phenomena by Statistical Analysis of Cathodoluminescence in Lead Halide-Based Perovskites.. <i>Advanced Science</i> , <b>2022</b> , e2103729	13.6	0
732	In Situ Graded Passivation via Porphyrin Derivative with Enhanced Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2022</b> , 6, 2100964	7.1	0
731	Revealing Weak Dimensional Confinement Effects in Excitonic Silver/Bismuth Double Perovskites.. <i>Jacs Au</i> , <b>2022</b> , 2, 136-149		2
730	Molecular Engineering of Thienyl Functionalized Ullazines as Hole-Transporting Materials for Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2022</b> , 6, 2100926	7.1	1
729	Halide exchange in the passivation of perovskite solar cells with functionalized ionic liquids. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100848	6.1	1
728	Single-crystalline TiO nanoparticles for stable and efficient perovskite modules.. <i>Nature Nanotechnology</i> , <b>2022</b> ,	28.7	13
727	Two in One: A Dinuclear Ru(II) Complex for Deep-Red Light-Emitting Electrochemical Cells and as an Electrochemiluminescence Probe for Organophosphorus Pesticides. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 17040-17050	5.1	2
726	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. <i>Nature Communications</i> , <b>2021</b> , 12, 6394	17.4	23
725	High-efficiency perovskite photovoltaic modules achieved via cesium doping. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133713	14.7	3
724	Phase-Pure Quasi-2D Perovskite by Protonation of Neutral Amine. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 11323-11329	6.4	1
723	Effect of illumination and applied potential on the electrochemical impedance spectra in triple cation (FA/MA/Cs) 3D and 2D/3D perovskite solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 902, 115800	4.1	2
722	Evolution of hybrid organic-inorganic perovskite materials under external pressure. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041309	17.3	1
721	Enhancing Algae Biomass Production by Using Dye-Sensitized Solar Cells as Filters. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 14353-14364	8.3	1
720	The Status Quo of Rashba Phenomena in Organic-Inorganic Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 361-367	6.4	1

7 <sup>19</sup>	Influence of Donor Groups on Benzosenadiazole-Based Dopant-Free Hole Transporting Materials for High Performance Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 312-321	6.1	2
7 <sup>18</sup>	SnO <sub>2</sub> /TiO <sub>2</sub> Electron Transporting Bilayers: A Route to Light Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3424-3430	6.1	10
7 <sup>17</sup>	Two-Step Thermal Annealing: An Effective Route for 15 % Efficient Quasi-2D Perovskite Solar Cells. <i>ChemPlusChem</i> , <b>2021</b> , 86, 1044-1048	2.8	3
7 <sup>16</sup>	Isomeric Carbazole-Based Hole-Transporting Materials: Role of the Linkage Position on the Photovoltaic Performance of Perovskite Solar Cells. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3286-3296	9.6	10
7 <sup>15</sup>	Beyond Tolerance Factor: Using Deep Learning for Prediction Formability of ABX <sub>3</sub> Perovskite Structures. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2100021	3.5	1
7 <sup>14</sup>	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. <i>Chemical Record</i> , <b>2021</b> , 21, 1811-1844	6.6	15
7 <sup>13</sup>	Gradient 1D/3D Perovskite Bilayer using 4-tert-Butylpyridinium Cation for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000791	7.1	2
7 <sup>12</sup>	Piezo-electric and -phototronic effects of perovskite 2D 3D heterostructures. <i>Nano Energy</i> , <b>2021</b> , 84, 105899	17.1	6
7 <sup>11</sup>	Crystallographically Oriented Hybrid Perovskites via Thermal Vacuum Codeposition. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100191	7.1	2
7 <sup>10</sup>	Stable Perovskite Solar Cells Using Molecularly Engineered Functionalized Oligothiophenes as Low-Cost Hole-Transporting Materials. <i>Small</i> , <b>2021</b> , 17, e2100783	11	4
7 <sup>09</sup>	Hole-Transporting Materials for Perovskite Solar Cells Employing an Anthradithiophene Core. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28214-28221	9.5	6
7 <sup>08</sup>	Two-Step Thermal Annealing: An Effective Route for 15 % Efficient Quasi-2D Perovskite Solar Cells. <i>ChemPlusChem</i> , <b>2021</b> , 86, 1040-1041	2.8	
7 <sup>07</sup>	Laser Processing Methods for Perovskite Solar Cells and Modules. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101149	21.8	9
7 <sup>06</sup>	High-Efficiency Deep-Red Light-Emitting Electrochemical Cell Based on a Trinuclear Ruthenium(II)-Silver(I) Complex. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 11915-11922	5.1	0
7 <sup>05</sup>	Selenophene-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>ChemPlusChem</i> , <b>2021</b> , 86, 1006-1013	2.8	1
7 <sup>04</sup>	2D/3D perovskite engineering eliminates interfacial recombination losses in hybrid perovskite solar cells. <i>Chem</i> , <b>2021</b> , 7, 1903-1916	16.2	32
7 <sup>03</sup>	Defect Suppression in Oriented 2D Perovskite Solar Cells with Efficiency over 18% via Rerouting Crystallization Pathway. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002966	21.8	38
7 <sup>02</sup>	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002774	21.8	56

701	Light Stability Enhancement of Perovskite Solar Cells Using 1H,1H,2H,2H-Perfluorooctyltriethoxysilane Passivation. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000650	7.1	4
700	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000555	7.1	13
699	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> , <b>2021</b> , 9, 301-309	13	13
698	Facile and low-cost synthesis of a novel dopant-free hole transporting material that rivals Spiro-OMeTAD for high efficiency perovskite solar cells. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 199-211	5.8	10
697	Novel photoelectric material of perovskite-like (CH <sub>3</sub> ) <sub>3</sub> SPbI <sub>3</sub> nanorod arrays with high stability. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 581-588	12	9
696	Anion Exchange-Induced Crystal Engineering via Hot-Pressing Sublimation Affording Highly Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000729	7.1	1
695	Controlling PbI <sub>2</sub> Stoichiometry during Synthesis to Improve the Performance of Perovskite Photovoltaics. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 554-566	9.6	4
694	Passivation and process engineering approaches of halide perovskite films for high efficiency and stability perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2906-2953	35.4	52
693	Phosphine Oxide Derivative as a Passivating Agent to Enhance the Performance of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1259-1268	6.1	3
692	Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6059-6067	9.6	3
691	Engineering long-term stability into perovskite solar cells via application of a multi-functional TFSI-based ionic liquid. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100475	6.1	6
690	Fiber-Shaped Electronic Devices. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101443	21.8	15
689	Expanded Phase Distribution in Low Average Layer-Number 2D Perovskite Films: Toward Efficient Semitransparent Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104868	15.6	6
688	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20652-20660	3.6	1
687	Branched Methoxydiphenylamine-Substituted Carbazole Derivatives for Efficient Perovskite Solar Cells: Bigger Is Not Always Better. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7017-7027	9.6	4
686	Advances in solution-processed near-infrared light-emitting diodes. <i>Nature Photonics</i> , <b>2021</b> , 15, 656-669	33.9	25
685	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20489-20497	16.4	20
684	A review on two-dimensional (2D) and 2D-3D multidimensional perovskite solar cells: Perovskites structures, stability, and photovoltaic performances. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2021</b> , 48, 100405	16.4	25

683	Cesium-doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for efficient and thermally stable perovskite solar cells. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100598	6.1	6
682	Cation optimization for burn-in loss-free perovskite solar devices. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5374-5380	13	2
681	Consequence of aging at Au/HTM/perovskite interface in triple cation 3D and 2D/3D hybrid perovskite solar cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 33	4.9	7
680	The emergence of concentrator photovoltaics for perovskite solar cells. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041324	17.3	2
679	High-humidity processed perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10481-10518	13	32
678	Tapered Cross-Section Photoelectron Spectroscopy of State-of-the-Art Mixed Ion Perovskite Solar Cells: Band Bending Profile in the Dark, Photopotential Profile Under Open Circuit Illumination, and Band Diagram. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910679	15.6	12
677	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11428-11433	16.4	48
676	Inorganic and Hybrid Interfacial Materials for Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000910	21.8	28
675	Perovskite Flash Memory with a Single-Layer Nanofloating Gate. <i>Nano Letters</i> , <b>2020</b> , 20, 5081-5089	11.5	9
674	Spatial Charge Separation as the Origin of Anomalous Stark Effect in Fluorous 2D Hybrid Perovskites. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000228	15.6	6
673	Molecular materials as interfacial layers and additives in perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 4496-4526	58.5	59
672	D <sup>π</sup> A-Type Triazatruxene-Based Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000173	7.1	21
671	Dimension-Controlled Growth of Antimony-Based Perovskite-like Halides for Lead-Free and Semitransparent Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17062-17069	9.5	36
670	Self-Crystallized Multifunctional 2D Perovskite for Efficient and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910620	15.6	45
669	Nanoscale Perovskite-Sensitized Solar Cell Revisited: Dye-Cell or Perovskite-Cell?. <i>ChemSusChem</i> , <b>2020</b> , 13, 2571-2576	8.3	9
668	Vertically Aligned 2D/3D Pb <sub>5</sub> Sn Perovskites with Enhanced Charge Extraction and Suppressed Phase Segregation for Efficient Printable Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1386-1395	20.1	60
667	Enhanced stability of $\beta$ -phase FAPbI <sub>3</sub> perovskite solar cells by insertion of 2D (PEA) <sub>2</sub> PbI <sub>4</sub> nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8058-8064	13	20
666	A cost-device efficiency balanced spiro based hole transport material for perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6221-6227	7.1	5

665	Spontaneously Self-Assembly of a 2D/3D Heterostructure Enhances the Efficiency and Stability in Printed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000173	21.8	81
664	Azatruxene-Based, Dumbbell-Shaped, Donor-Bridge-Donor Hole-Transporting Materials for Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 11039-11047	4.8	4
663	MAPbI <sub>3</sub> Bilayers via One-Step Deposition for Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002632	24	41
662	Assessing mobile ions contributions to admittance spectra and current-voltage characteristics of 3D and 2D/3D perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 215, 110670	6.4	9
661	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. <i>Nature Communications</i> , <b>2020</b> , 11, 3378	17.4	51
660	The Synergism of DMSO and Diethyl Ether for Highly Reproducible and Efficient MA0.5FA0.5PbI <sub>3</sub> Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001300	21.8	17
659	Benzothiadiazole Aryl-amine Based Materials as Efficient Hole Carriers in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32712-32718	9.5	14
658	Co-evaporation as an optimal technique towards compact methylammonium bismuth iodide layers. <i>Scientific Reports</i> , <b>2020</b> , 10, 10640	4.9	10
657	A hysteresis-free perovskite transistor with exceptional stability through molecular cross-linking and amine-based surface passivation. <i>Nanoscale</i> , <b>2020</b> , 12, 7641-7650	7.7	24
656	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5341-5345	3.6	6
655	Stable and High-Efficiency Methylammonium-Free Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905502	24	86
654	Molecular engineering of simple carbazole-arylamine hole-transport materials for perovskite solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1875-1882	5.8	20
653	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5303-5307	16.4	14
652	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , <b>2020</b> , 5, 35-49	62.3	369
651	Elucidating the Doping Mechanism in Fluorene-Dithiophene-Based Hole Selective Layer Employing Ultrahydrophobic Ionic Liquid Dopant. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9395-9403	9.5	11
650	In Situ Analysis Reveals the Role of 2D Perovskite in Preventing Thermal-Induced Degradation in 2D/3D Perovskite Interfaces. <i>Nano Letters</i> , <b>2020</b> , 20, 3992-3998	11.5	41
649	Inkjet-Printed TiO <sub>2</sub> /Fullerene Composite Films for Planar Perovskite Solar Cells. <i>Helvetica Chimica Acta</i> , <b>2020</b> , 103, e2000044	2	5
648	Carbazole-Terminated Isomeric Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19710-19717	9.5	20



647	Lead Sequestration from Perovskite Solar Cells Using a Metal-Organic Framework Polymer Composite. <i>Energy Technology</i> , <b>2020</b> , 8, 2000239	3.5	19
646	Detection of voltage pulse width effect on charge accumulation in PSCs using EFISHG measurement. <i>Results in Physics</i> , <b>2020</b> , 17, 103063	3.7	2
645	Principal Descriptors of Ionic Liquid Co-catalysts for the Electrochemical Reduction of CO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4690-4698	6.1	6
644	Band-bending induced passivation: high performance and stable perovskite solar cells using a perhydropoly(silazane) precursor. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1222-1230	35.4	72
643	Increasing efficiency of perovskite solar cells using low concentrating photovoltaic systems. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 528-537	5.8	36
642	Hole transporting materials for perovskite solar cells and a simple approach for determining the performance limiting factors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1386-1393	13	13
641	Doped but Stable: Spirobisacridine Hole Transporting Materials for Hysteresis-Free and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1792-1800	16.4	29
640	Effective Preparation of Nanoscale CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Photosensitizers for Mesoporous TiO <sub>2</sub> -Based Solar Cells by Successive Precursor Layer Adsorption and Reaction Process. <i>Energy Technology</i> , <b>2020</b> , 8, 1901186	3.5	2
639	Green-Emitting Lead-Free CsSnBr Zero-Dimensional Perovskite Nanocrystals with Improved Air Stability. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 618-623	6.4	26
638	CuSCN as Hole Transport Material with 3D/2D Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 114-121	6.1	41
637	Tetrasubstituted Thieno[3,2-]thiophenes as Hole-Transporting Materials for Perovskite Solar Cells. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 224-233	4.2	12
636	Dynamical evolution of the 2D/3D interface: a hidden driver behind perovskite solar cell instability. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2343-2348	13	60
635	Atomic Layer-Deposited Aluminum Oxide Hinders Iodide Migration and Stabilizes Perovskite Solar Cells. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100112	6.1	9
634	Gradient band structure: high performance perovskite solar cells using poly(bisphenol A anhydride-co-1,3-phenylenediamine). <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17113-17119	13	11
633	Applications of Self-Assembled Monolayers for Perovskite Solar Cells Interface Engineering to Address Efficiency and Stability. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002989	21.8	34
632	Universal approach toward high-efficiency two-dimensional perovskite solar cells via a vertical-rotation process. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3093-3101	35.4	46
631	Optoelectronic and Energy Level Exploration of Bismuth and Antimony-Based Materials for Lead-Free Solar Cells. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6416-6424	9.6	15
630	Nanoscale Mass-Spectrometry Imaging of Grain Boundaries in Perovskite Semiconductors. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 23230-23236	3.8	6

629	An Efficient Approach to Fabricate Air-Stable Perovskite Solar Cells via Addition of a Self-Polymerizing Ionic Liquid. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003801	24	37
628	Reducing Amplified Spontaneous Emission Threshold in CsPbBr Quantum Dot Films by Controlling TiO Compact Layer. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
627	Molecular Design and Operational Stability: Toward Stable 3D/2D Perovskite Interlayers. <i>Advanced Science</i> , <b>2020</b> , 7, 2001014	13.6	23
626	The Role of Goldschmidt's Tolerance Factor in the Formation of A2BX6 Double Halide Perovskites and its Optimal Range. <i>Small Methods</i> , <b>2020</b> , 4, 1900426	12.8	56
625	Zero-dimensional hybrid iodobismuthate derivatives: from structure study to photovoltaic application. <i>Dalton Transactions</i> , <b>2020</b> , 49, 5815-5822	4.3	5
624	Quasi-quantum dot-induced stabilization of $\text{CH}_3\text{PbI}_3$ perovskite for high-efficiency solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10226-10232	13	9
623	Soft Template-Controlled Growth of High-Quality $\text{CsPbI}_3$ Films for Efficient and Stable Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903751	21.8	60
622	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5713-5720	6.4	29
621	Copper sulfide nanoparticles as hole-transporting-material in a fully-inorganic blocking layers n-i-p perovskite solar cells: Application and working insights. <i>Applied Surface Science</i> , <b>2019</b> , 478, 607-614	6.7	27
620	Micellization behavior of bile salt with pluronic (F-127) and synthesis of silver nanoparticles in a mixed system. <i>Journal of Physical Organic Chemistry</i> , <b>2019</b> , 32, e3964	2.1	4
619	Inexpensive Hole-Transporting Materials Derived from Tröger's Base Afford Efficient and Stable Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11388	3.6	1
618	Appraisalment of Crystal Expansion in $\text{CH}_3\text{NH}_3\text{PbI}_3$ on Doping: Improved Photovoltaic Properties. <i>ChemSusChem</i> , <b>2019</b> , 12, 2329-2329	8.3	1
617	Inexpensive Hole-Transporting Materials Derived from Tröger's Base Afford Efficient and Stable Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11266-11272	16.4	30
616	Efficiency stability: dopant-free hole transporting materials towards stabilized perovskite solar cells. <i>Chemical Science</i> , <b>2019</b> , 10, 6748-6769	9.4	125
615	Optoelectronic Properties of Layered Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900126	7.1	9
614	Saddle-like, $\pi$ -conjugated, cyclooctatetrathiophene-based, hole-transporting material for perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6656-6663	7.1	21
613	Phthalocyanines and porphyrinoid analogues as hole- and electron-transporting materials for perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2738-2766	58.5	105
612	Ionic dipolar switching hinders charge collection in perovskite solar cells with normal and inverted hysteresis. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 195, 291-298	6.4	17



611	Improved efficiency and reduced hysteresis in ultra-stable fully printable mesoscopic perovskite solar cells through incorporation of CuSCN into the perovskite layer. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8073-8077	13	32
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478	Molecular Engineering of Iridium Blue Emitters Using Aryl N-Heterocyclic Carbene Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 5089-5097	2.3	12
477	Beneficial Role of Reduced Graphene Oxide for Electron Extraction in Highly Efficient Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2016</b> , 9, 3040-3044	8.3	56
476	Molecular Design Principles for Near-Infrared Absorbing and Emitting Indolizine Dyes. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 15536-15542	4.8	36
475	New Horizons for Perovskite Solar Cells Employing DNA-CTMA as the Hole-Transporting Material. <i>ChemSusChem</i> , <b>2016</b> , 9, 1516-1516	8.3	1
474	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7388-95	5.1	18
473	A molecularly engineered hole-transporting material for efficient perovskite solar cells. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	693
472	In retrospect: Twenty-five years of low-cost solar cells. <i>Nature</i> , <b>2016</b> , 538, 463-464	50.4	49
471	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> , <b>2016</b> , 4, 18259-18264	13	58
470	Copper Thiocyanate Inorganic Hole-Transporting Material for High-Efficiency Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1112-1117	20.1	98
469	Photovoltaic and Amplified Spontaneous Emission Studies of High-Quality Formamidinium Lead Bromide Perovskite Films. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2846-2854	15.6	57
468	Effect of Peripheral Substitution on the Performance of Subphthalocyanines in DSSCs. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 1223-31	4.5	10

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466	Benzotrithiophene-Based Hole-Transporting Materials for 18.2 % Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6378-6382	3.6	44
465	The Influence of Substituent Orientation on the Photovoltaic Performance of Phthalocyanine-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4369-73	4.8	19
464	A low recombination rate indolizine sensitizer for dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 8424-7	5.8	40
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462	Asymmetric Cathodoluminescence Emission in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Brx Perovskite Single Crystals. <i>ACS Photonics</i> , <b>2016</b> , 3, 947-952	6.3	25
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460	A Computational and Experimental Study of Thieno[3,4-b]thiophene as a Proaromatic Bridge in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 694-703	4.8	29
459	Enhanced electronic properties in mesoporous TiO <sub>2</sub> via lithium doping for high-efficiency perovskite solar cells. <i>Nature Communications</i> , <b>2016</b> , 7, 10379	17.4	626
458	Synthesis, characterization and ab initio investigation of a panchromatic ullazineporphyrin photosensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2332-2339	13	44
457	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1989-1997	35.4	3740
456	Low-voltage, high-brightness and deep-red light-emitting electrochemical cells (LECs) based on new ruthenium(ii) phenanthroimidazole complexes. <i>Dalton Transactions</i> , <b>2016</b> , 45, 7195-9	4.3	26
455	Efficiency enhancement of perovskite solar cells via incorporation of phenylethenyl side arms into indolocarbazole-based hole transporting materials. <i>Nanoscale</i> , <b>2016</b> , 8, 8530-5	7.7	35
454	Organohalide Lead Perovskites for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 851-66	6.4	125
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4 <sup>08</sup>	Light Harvesting and Charge Recombination in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. <i>ACS Nano</i> , <b>2015</b> , 9, 4200-9	16.7	167
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4 <sup>05</sup>	Highly efficient planar perovskite solar cells through band alignment engineering. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2928-2934	35.4	949
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82	DFT-INDO/S modeling of new high molar extinction coefficient charge-transfer sensitizers for solar cell applications. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 787-97	5.1	118
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77	Reversible colorimetric probes for mercury sensing. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12351-6	16.4	298
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75	Organized mesoporous TiO <sub>2</sub> films exhibiting greatly enhanced performance in dye-sensitized solar cells. <i>Nano Letters</i> , <b>2005</b> , 5, 1789-92	11.5	497
74	Control of dark current in photoelectrochemical (TiO <sub>2</sub> /I <sup>-</sup> /I <sub>3</sub> <sup>-</sup> ) and dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2005</b> , 4351-3	5.8	538
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