Antonio Abate

List of Publications by Year in Descending Order

171 papers	34,022 citations	67 h-index	184 g-index
203 ext. papers	38,664 ext. citations	16.3 avg, IF	7.49 L-index

#	Paper	IF	Citations
171	Environmental lead exposure from halide perovskites in solar cells.. *Trends in Ecology and Evolution*, **2022**,	10.9	3
170	Role of the Alkali Metal Cation in the Early Stages of Crystallization of Halide Perovskites. *Chemistry of Materials*, **2022**, 34, 1121-1131	9.6	2
169	Quantitative Predictions of Moisture-Driven Photoemission Dynamics in Metal Halide Perovskites via Machine Learning.. *Journal of Physical Chemistry Letters*, **2022**, 2254-2263	6.4	1
168	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. *Nature Energy*, **2022**, 7, 107-115	62.3	26
167	Enhanced Self-Assembled Monolayer Surface Coverage by ALD NiO in p-i-n Perovskite Solar Cells.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	9
166	Lights and Shadows of DMSO as Solvent for Tin Halide Perovskites. *Chemistry - A European Journal*, **2021**,	4.8	4
165	Compositional and Interfacial Engineering Yield High-Performance and Stable p-i-n Perovskite Solar Cells and Mini-Modules. *ACS Applied Materials & Interfaces*, **2021**, 13, 13022-13033	9.5	31
164	Tuning of Ionic Liquid Crystal Properties by Combining Halogen Bonding and Fluorous Effect. *ChemPlusChem*, **2021**, 86, 469-474	2.8	5
163	Dendritic-Like Molecules Built on a Pillar[5]arene Core as Hole Transporting Materials for Perovskite Solar Cells. *Chemistry - A European Journal*, **2021**, 27, 8110-8117	4.8	4
162	Fluoridchemie in Zinn-Halogenid-Perowskiten. *Angewandte Chemie*, **2021**, 133, 21753-21762	3.6	1
161	Fluoride Chemistry in Tin Halide Perovskites. *Angewandte Chemie - International Edition*, **2021**, 60, 21583-21591	16.1	118
160	Co-Evaporated Formamidinium Lead Iodide Based Perovskites with 1000 h Constant Stability for Fully Textured Monolithic Perovskite/Silicon Tandem Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2101460	21.8	29
159	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. *Solar Rrl*, **2021**, 5, 2000555	7.1	13
158	Tuning halide perovskite energy levels. *Energy and Environmental Science*, **2021**, 14, 1429-1438	35.4	38
157	20.8% Slot-Die Coated MAPbI3 Perovskite Solar Cells by Optimal DMSO-Content and Age of 2-ME Based Precursor Inks. *Advanced Energy Materials*, **2021**, 11, 2003460	21.8	52
156	Passivation and process engineering approaches of halide perovskite films for high efficiency and stability perovskite solar cells. *Energy and Environmental Science*, **2021**, 14, 2906-2953	35.4	52
155	Tin halide perovskites for efficient lead-free solar cells **2021**, 259-285		

154	Challenges in tin perovskite solar cells. *Physical Chemistry Chemical Physics*, **2021**, 23, 23413-23427	3.6	6
153	Small-angle scattering to reveal the colloidal nature of halide perovskite precursor solutions. *Journal of Materials Chemistry A*, **2021**, 9, 13477-13482	13	6
152	Understanding the perovskite/self-assembled selective contact interface for ultra-stable and highly efficient p-i-n perovskite solar cells. *Energy and Environmental Science*, **2021**, 14, 3976-3985	35.4	33
151	Solvents for Processing Stable Tin Halide Perovskites. *ACS Energy Letters*, **2021**, 6, 959-968	20.1	35
150	Large-Grain Double Cation Perovskites with 18 µs Lifetime and High Luminescence Yield for Efficient Inverted Perovskite Solar Cells. *ACS Energy Letters*, **2021**, 6, 1045-1054	20.1	27
149	Ionic Liquid Stabilizing High-Efficiency Tin Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2101539	21.8	37
148	Halogen-Bonded Hole-Transport Material Suppresses Charge Recombination and Enhances Stability of Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2101553	21.8	13
147	Water-Induced and Wavelength-Dependent Light Absorption and Emission Dynamics in Triple-Cation Halide Perovskites. *Advanced Optical Materials*, **2021**, 9, 2100710	8.1	
146	Innenrücktitelbild: Fluoridchemie in Zinn-Halogenid-Perowskiten (Angew. Chem. 39/2021). *Angewandte Chemie*, **2021**, 133, 21763-21763	3.6	
145	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. *Science*, **2020**, 370, 1300-1309	33.3	438
144	Tin Halide Perovskite Films Made of Highly Oriented 2D Crystals Enable More Efficient and Stable Lead-free Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 1923-1929	20.1	61
143	Reply to the "comment on the publication "ferroelectricity-free lead halide perovskites" by Gomez et al." by Colsmann et al.. *Energy and Environmental Science*, **2020**, 13, 1892-1895	35.4	7
142	Ion Migration-Induced Amorphization and Phase Segregation as a Degradation Mechanism in Planar Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000310	21.8	56
141	Managing Phase Purities and Crystal Orientation for High-Performance and Photostable Cesium Lead Halide Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000213	7.1	11
140	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 2343-2348	20.1	11
139	Comparing the excited-state properties of a mixed-cation-mixed-halide perovskite to methylammonium lead iodide. *Journal of Chemical Physics*, **2020**, 152, 104703	3.9	8
138	Origin of Sn(II) oxidation in tin halide perovskites. *Materials Advances*, **2020**, 1, 1066-1070	3.3	49
137	2-Methylimidazole as an interlayer for the enhancement of the open-circuit voltage in perovskite solar cells. *Journal of Power Sources*, **2020**, 450, 227714	8.9	5

136	Biological impact of lead from halide perovskites reveals the risk of introducing a safe threshold. *Nature Communications*, **2020**, 11, 310	17.4	172
135	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. *Nature Energy*, **2020**, 5, 35-49	62.3	369
134	Perovskite solar cell performance assessment. *JPhys Energy*, **2020**, 2, 044002	4.9	4
133	The Doping Mechanism of Halide Perovskite Unveiled by Alkaline Earth Metals. *Journal of the American Chemical Society*, **2020**, 142, 2364-2374	16.4	65
132	Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 445-450	6.4	6
131	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. *ACS Nano*, **2020**, 14, 1445-1456	16.7	74
130	Toward High-Throughput Texturing of Polymer Foils for Enhanced Light Trapping in Flexible Perovskite Solar Cells Using Roll-to-Roll Hot Embossing. *Advanced Engineering Materials*, **2020**, 22, 1901217	3.5	15
129	Ultrathin Nanosheets of Oxo-functionalized Graphene Inhibit the Ion Migration in Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1902653	21.8	35
128	Stability of materials and complete devices **2020**, 197-215		1
127	Moisture-Induced Crystallographic Reorientations and Effects on Charge Carrier Extraction in Metal Halide Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 3526-3534	20.1	15
126	Structure-induced optoelectronic properties of phenothiazine-based materials. *Journal of Materials Chemistry C*, **2020**, 8, 15486-15506	7.1	16
125	Progress, highlights and perspectives on NiO in perovskite photovoltaics. *Chemical Science*, **2020**, 11, 7746-7759	9.4	58
124	In situ Near-Ambient Pressure X-ray Photoelectron Spectroscopy Reveals the Influence of Photon Flux and Water on the Stability of Halide Perovskite. *ChemSusChem*, **2020**, 13, 5722-5730	8.3	5
123	Suppression of Electron Trapping in MAPbI3 Perovskite by Sr2+ Doping. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000307	2.5	3
122	Embedded Nickel-Mesh Transparent Electrodes for Highly Efficient and Mechanically Stable Flexible Perovskite Photovoltaics: Toward a Portable Mobile Energy Source. *Advanced Materials*, **2020**, 32, e2003422	24	30
121	Tin Halide Perovskite (ASnX3) Solar Cells: A Comprehensive Guide toward the Highest Power Conversion Efficiency. *Advanced Energy Materials*, **2020**, 10, 1902467	21.8	73
120	The Role of Grain Boundaries on Ionic Defect Migration in Metal Halide Perovskites. *Advanced Energy Materials*, **2020**, 10, 1903735	21.8	52
119	The Effects of Incident Photon Energy on the Time-Dependent Voltage Response of Lead Halide Perovskites. *Chemistry of Materials*, **2019**, 31, 8969-8976	9.6	6

118	Highly Efficient Perovskite Solar Cells Based on a ZnSnO Compact Layer. *ACS Applied Materials & Interfaces*, **2019**, 11, 36553-36559	9.5	24
117	Ultralow surface energy self-assembled monolayers of iodo-perfluorinated alkanes on silica driven by halogen bonding. *Nanoscale*, **2019**, 11, 2401-2411	7.7	7
116	TiO2-B as an electron transporting material for highly efficient perovskite solar cells. *Journal of Power Sources*, **2019**, 415, 8-14	8.9	20
115	Enhancement in lifespan of halide perovskite solar cells. *Energy and Environmental Science*, **2019**, 12, 865-886	35.4	110
114	Ferroelectricity-free lead halide perovskites. *Energy and Environmental Science*, **2019**, 12, 2537-2547	35.4	56
113	Perovskite solar cells **2019**, 417-446		4
112	Rationalizing the Molecular Design of Hole-Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1900990	21.8	37
111	Refractive index change dominates the transient absorption response of metal halide perovskite thin films in the near infrared. *Physical Chemistry Chemical Physics*, **2019**, 21, 14663-14670	3.6	16
110	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. *Advanced Materials*, **2019**, 31, e1901519	24	88
109	The Bloom of Perovskite Optoelectronics: Fundamental Science Matters. *ACS Energy Letters*, **2019**, 4, 861-865	20.1	16
108	Stability and Dark Hysteresis Correlate in NiO-Based Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1901642	21.8	41
107	From Bulk to Surface: Sodium Treatment Reduces Recombination at the Nickel Oxide/Perovskite Interface. *Advanced Materials Interfaces*, **2019**, 6, 1900789	4.6	29
106	Unravelling fullerene□perovskite interactions introduces advanced blend films for performance-improved solar cells. *Sustainable Energy and Fuels*, **2019**, 3, 2779-2787	5.8	14
105	Highly efficient ZnSnO perovskite solar cells through band alignment engineering. *Chemical Communications*, **2019**, 55, 14673-14676	5.8	10
104	Halogen-bond driven self-assembly of perfluorocarbon monolayers on silicon nitride. *Journal of Materials Chemistry A*, **2019**, 7, 24445-24453	13	6
103	Cesium-Incorporated Triple Cation Perovskites Deliver Fully Reversible and Stable Nanoscale Voltage Response. *ACS Nano*, **2019**, 13, 1538-1546	16.7	20
102	Frontispiece: Perovskite Solar Cells: From the Laboratory to the Assembly Line. *Chemistry - A European Journal*, **2018**, 24,	4.8	1
101	Flash Infrared Annealing for Antisolvent-Free Highly Efficient Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702915	21.8	88

100	Topological distribution of reversible and non-reversible degradation in perovskite solar cells. *Nano Energy*, **2018**, 45, 94-100	17.1	32
99	A Ga-doped SnO2 mesoporous contact for UV stable highly efficient perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 1850-1857	13	91
98	Perowskit-Solarzellen: atomare Ebene, Schichtqualität und Leistungsfähigkeit der Zellen. *Angewandte Chemie*, **2018**, 130, 2582-2598	3.6	28
97	Perovskite Solar Cells: From the Atomic Level to Film Quality and Device Performance. *Angewandte Chemie - International Edition*, **2018**, 57, 2554-2569	16.4	324
96	Perovskite Solar Cells: From the Laboratory to the Assembly Line. *Chemistry - A European Journal*, **2018**, 24, 3083-3100	4.8	100
95	Temperature dependent two-photon photoluminescence of CH3NH3PbBr3: structural phase and exciton to free carrier transition. *Optical Materials Express*, **2018**, 8, 511	2.6	22
94	Facile Deposition of Nb2O5 Thin Film as an Electron-Transporting Layer for Highly Efficient Perovskite Solar Cells. *ACS Applied Nano Materials*, **2018**, 1, 4101-4109	5.6	26
93	Measuring Aging Stability of Perovskite Solar Cells. *Joule*, **2018**, 2, 1019-1024	27.8	83
92	How to Make over 20% Efficient Perovskite Solar Cells in Regular (n-i-p) and Inverted (p-i-n) Architectures. *Chemistry of Materials*, **2018**, 30, 4193-4201	9.6	339
91	Mesoporous Electron-Selective Contacts Enhance the Tolerance to Interfacial Ion Accumulation in Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 163-169	20.1	40
90	Enhanced charge carrier mobility and lifetime suppress hysteresis and improve efficiency in planar perovskite solar cells. *Energy and Environmental Science*, **2018**, 11, 78-86	35.4	202
89	The Role of Charge Selective Contacts in Perovskite Solar Cell Stability. *Advanced Energy Materials*, **2018**, 9, 1803140	21.8	60
88	Perovskite Solar Cells: Promises and Challenges **2018**, 261-356		1
87	The Impact of Nano- and Microstructure on the Stability of Perovskite Solar Cells. *Small*, **2018**, 14, e1802573	13	33
86	Graphene quantum dots decorated TiO2 mesoporous film as an efficient electron transport layer for high-performance perovskite solar cells. *Journal of Power Sources*, **2018**, 402, 320-326	8.9	61
85	Efficient and Stable Inorganic Perovskite Solar Cells Manufactured by Pulsed Flash Infrared Annealing. *Advanced Energy Materials*, **2018**, 8, 1802060	21.8	78
84	Covering effect of conductive glass: a facile route to tailor the grain growth of hybrid perovskites for highly efficient solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 20289-20296	13	7
83	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 604-613	35.4	387

82	Patterning of perovskite-polymer films by wrinkling instabilities. *Soft Matter*, **2017**, 13, 1654-1659	3.6	10
81	High Temperature-Stable Perovskite Solar Cell Based on Low-Cost Carbon Nanotube Hole Contact. *Advanced Materials*, **2017**, 29, 1606398	24	173
80	The rapid evolution of highly efficient perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 710-727	35.4	811
79	Molecular Tailoring of Phenothiazine-Based Hole-Transporting Materials for High-Performing Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 1029-1034	20.1	104
78	The effect of illumination on the formation of metal halide perovskite films. *Nature*, **2017**, 545, 208-212	50.4	197
77	Spontaneous crystal coalescence enables highly efficient perovskite solar cells. *Nano Energy*, **2017**, 39, 24-29	17.1	51
76	Identifying and suppressing interfacial recombination to achieve high open-circuit voltage in perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 1207-1212	35.4	242
75	Perovskite Solar Cells Go Lead Free. *Joule*, **2017**, 1, 659-664	27.8	206
74	Globularity-Selected Large Molecules for a New Generation of Multication Perovskites. *Advanced Materials*, **2017**, 29, 1702005	24	67
73	Promises and challenges of perovskite solar cells. *Science*, **2017**, 358, 739-744	33.3	1016
72	Rational Design of Molecular Hole-Transporting Materials for Perovskite Solar Cells: Direct versus Inverted Device Configurations. *ACS Applied Materials & Interfaces*, **2017**, 9, 24778-24787	9.5	59
71	Perovskite Solar Cells Go Lead Free. *Joule*, **2017**, 1, 887	27.8	8
70	Control refinement for discrete-time descriptor systems: a behavioural approach via simulation relations. *IFAC-PapersOnLine*, **2017**, 50, 15822-15827	0.7	1
69	Additive-Free Transparent Triarylamine-Based Polymeric Hole-Transport Materials for Stable Perovskite Solar Cells. *ChemSusChem*, **2016**, 9, 2567-2571	8.3	56
68	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. *Energy and Environmental Science*, **2016**, 9, 3128-3134	35.4	603
67	Highly Efficient and Stable Perovskite Solar Cells based on a Low-Cost Carbon Cloth. *Advanced Energy Materials*, **2016**, 6, 1601116	21.8	91
66	Perovskite Solar Cell Stability in Humid Air: Partially Reversible Phase Transitions in the PbI2-CH3NH3I-H2O System. *Advanced Energy Materials*, **2016**, 6, 1600846	21.8	263
65	Inverted Current–Voltage Hysteresis in Mixed Perovskite Solar Cells: Polarization, Energy Barriers, and Defect Recombination. *Advanced Energy Materials*, **2016**, 6, 1600396	21.8	174

64	A molecularly engineered hole-transporting material for efficient perovskite solar cells. *Nature Energy*, **2016**, 1,	62.3	693
63	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	1
62	Mesoporous SnO2 electron selective contact enables UV-stable perovskite solar cells. *Nano Energy*, **2016**, 30, 517-522	17.1	165
61	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd-Doping of Mesostructured TiO2. *Advanced Energy Materials*, **2016**, 6, 1501868	21.8	130
60	Enhanced electronic properties in mesoporous TiO2 via lithium doping for high-efficiency perovskite solar cells. *Nature Communications*, **2016**, 7, 10379	17.4	626
59	Carbon nanotube-based hybrid hole-transporting material and selective contact for high efficiency perovskite solar cells. *Energy and Environmental Science*, **2016**, 9, 461-466	35.4	156
58	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. *Energy and Environmental Science*, **2016**, 9, 1989-1997	35.4	3740
57	Efficient luminescent solar cells based on tailored mixed-cation perovskites. *Science Advances*, **2016** , 2, e1501170	14.3	1498
56	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. *Energy and Environmental Science*, **2016**, 9, 81-88	35.4	469
55	Unbroken Perovskite: Interplay of Morphology, Electro-optical Properties, and Ionic Movement. *Advanced Materials*, **2016**, 28, 5031-7	24	208
54	High Absorption Coefficient Cyclopentadithiophene Donor-Free Dyes for Liquid and Solid-State Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 15027-15034	3.8	24
53	An efficient perovskite solar cell with symmetrical Zn(ii) phthalocyanine infiltrated buffering porous AlO as the hybrid interfacial hole-transporting layer. *Physical Chemistry Chemical Physics*, **2016**, 18, 27083-27089	3.6	31
52	Optical analysis of CHNHSn Pb I absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 11214-11221	13	87
51	A New 1,3,4-Oxadiazole-Based Hole-Transport Material for Efficient CH3 NH3 PbBr3 Perovskite Solar Cells. *ChemSusChem*, **2016**, 9, 657-61	8.3	29
50	In-situ observation of moisture-induced degradation of perovskite solar cells using laser-beam induced current **2016**,		8
49	Not All That Glitters Is Gold: Metal-Migration-Induced Degradation in Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 6306-14	16.7	759
48	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. *Science*, **2016**, 354, 206-209	33.3	2628
47	Enhancing Efficiency of Perovskite Solar Cells via N-doped Graphene: Crystal Modification and Surface Passivation. *Advanced Materials*, **2016**, 28, 8681-8686	24	228

46	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. *Advanced Energy Materials*, **2016**, 6, 1600767	21.8	165
45	Improving the Long-Term Stability of Perovskite Solar Cells with a Porous Al2O3 Buffer Layer. *Journal of Physical Chemistry Letters*, **2015**, 6, 432-7	6.4	301
44	High-Efficiency Polycrystalline Thin Film Tandem Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 2676-81	6.4	147
43	Silolothiophene-linked triphenylamines as stable hole transporting materials for high efficiency perovskite solar cells. *Energy and Environmental Science*, **2015**, 8, 2946-2953	35.4	145
42	Perovskite photovoltachromic cells for building integration. *Energy and Environmental Science*, **2015**, 8, 1578-1584	35.4	102
41	Non-aggregated Zn(ii)octa(2,6-diphenylphenoxy) phthalocyanine as a hole transporting material for efficient perovskite solar cells. *Dalton Transactions*, **2015**, 44, 10847-51	4.3	76
40	Strong Photocurrent from Two-Dimensional Excitons in Solution-Processed Stacked Perovskite Semiconductor Sheets. *ACS Applied Materials & Interfaces*, **2015**, 7, 25227-36	9.5	76
39	Stability of Organic Cations in Solution-Processed CH3NH3PbI3 Perovskites: Formation of Modified Surface Layers. *Journal of Physical Chemistry C*, **2015**, 119, 21329-21335	3.8	70
38	Highly efficient planar perovskite solar cells through band alignment engineering. *Energy and Environmental Science*, **2015**, 8, 2928-2934	35.4	949
37	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. *Journal of the American Chemical Society*, **2015**, 137, 16172-8	16.4	268
36	Spectral splitting photovoltaics using perovskite and wideband dye-sensitized solar cells. *Nature Communications*, **2015**, 6, 8834	17.4	95
35	Hole-transport materials with greatly-differing redox potentials give efficient TiO2-[CH3NH3][PbX3] perovskite solar cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 2335-8	3.6	52
34	Methoxydiphenylamin-substituiertes Carbazol-Zwillingsderivat: ein effizienter organischer Lochleiter f□ Perowskit-Solarzellen. *Angewandte Chemie*, **2015**, 127, 11571-11575	3.6	34
33	A Methoxydiphenylamine-Substituted Carbazole Twin Derivative: An Efficient Hole-Transporting Material for Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2015**, 54, 11409-13	16.4	207
32	Phosphonic anchoring groups in organic dyes for solid-state solar cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 18780-9	3.6	15
31	Efficient photosynthesis of carbon monoxide from CO2 using perovskite photovoltaics. *Nature Communications*, **2015**, 6, 7326	17.4	245
30	High temperature crystal chemistry of the n=3 Ruddlesden□Popper phase LaSr3Fe1.5Co1.5O10□ *Solid State Ionics*, **2015**, 270, 54-60	3.3	7
29	Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 6142	17.4	695

28	Towards Long-Term Photostability of Solid-State Dye Sensitized Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1301667	21.8	47
27	Supramolecular halogen bond passivation of organic-inorganic halide perovskite solar cells. *Nano Letters*, **2014**, 14, 3247-54	11.5	527
26	Lead-free organic–inorganic tin halide perovskites for photovoltaic applications. *Energy and Environmental Science*, **2014**, 7, 3061-3068	35.4	1635
25	An Organic "Donor-Free" Dye with Enhanced Open-Circuit Voltage in Solid-State Sensitized Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400166	21.8	31
24	Low-temperature processed electron collection layers of graphene/TiO2 nanocomposites in thin film perovskite solar cells. *Nano Letters*, **2014**, 14, 724-30	11.5	917
23	Sub-150 °C processed meso-superstructured perovskite solar cells with enhanced efficiency. *Energy and Environmental Science*, **2014**, 7, 1142-1147	35.4	511
22	Influence of ionizing dopants on charge transport in organic semiconductors. *Physical Chemistry Chemical Physics*, **2014**, 16, 1132-8	3.6	47
21	Heterojunction modification for highly efficient organic-inorganic perovskite solar cells. *ACS Nano*, **2014**, 8, 12701-9	16.7	546
20	Performance and Stability Enhancement of Dye-Sensitized and Perovskite Solar Cells by Al Doping of TiO2. *Advanced Functional Materials*, **2014**, 24, 6046-6055	15.6	294
19	Enhanced photoluminescence and solar cell performance via Lewis base passivation of organic-inorganic lead halide perovskites. *ACS Nano*, **2014**, 8, 9815-21	16.7	1194
18	Oligothiophene interlayer effect on photocurrent generation for hybrid TiO(2)/P3HT solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 17226-35	9.5	20
17	Anomalous Hysteresis in Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 1511-5	6.4	1951
16	Protic ionic liquids as p-dopant for organic hole transporting materials and their application in high efficiency hybrid solar cells. *Journal of the American Chemical Society*, **2013**, 135, 13538-48	16.4	131
15	Overcoming ultraviolet light instability of sensitized TiO2 with meso-superstructured organometal tri-halide perovskite solar cells. *Nature Communications*, **2013**, 4, 2885	17.4	1367
14	Lithium salts as "redox active" p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 2572-9	3.6	459
13	Diacetylene bridged triphenylamines as hole transport materials for solid state dye sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 6949	13	89
12	Anisotropic ionic conductivity in fluorinated ionic liquid crystals suitable for optoelectronic applications. *Journal of Materials Chemistry A*, **2013**, 1, 6572	13	59
11	A polyfluoroalkyl imidazolium ionic liquid as iodide ion source in dye sensitized solar cells. *Organic Electronics*, **2012**, 13, 2474-2478	3.5	37

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10	The effect of selective interactions at the interface of polymer/oxide hybrid solar cells. *Energy and Environmental Science*, **2012**, 5, 9068	35.4	42
9	Tetrahedral Oxyanions in Halogen-Bonded Coordination Networks. *Crystal Growth and Design*, **2011**, 11, 4220-4226	3.5	33
8	Dimensional encapsulation of I(-)...I(2)...I(-) in an organic salt crystal matrix. *Chemical Communications*, **2010**, 46, 2724-6	5.8	87
7	Influence of cysteine adsorption on the performance of CdSe quantum dots sensitized solar cells. *Materials Chemistry and Physics*, **2010**, 124, 709-712	4.4	20
6	Halide anions driven self-assembly of haloperfluoroarenes: Formation of one-dimensional non-covalent copolymers. *Journal of Fluorine Chemistry*, **2009**, 130, 1171-1177	2.1	57
5	In Situ Methylammonium Chloride-Assisted Perovskite Crystallization Strategy for High-Performance Solar Cells448-456		3
4	Hybrid Perovskite Degradation from an Optical Perspective: A Spectroscopic Ellipsometry Study from the Deep Ultraviolet to the Middle Infrared. *Advanced Optical Materials*,2101553	8.1	2
3	Energy Distribution in Tin Halide Perovskite. *Solar Rrl*,2100825	7.1	3
2	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. *Energy and Environmental Science*,	35.4	21
1	High-Throughput Aging System for Parallel Maximum Power Point Tracking of Perovskite Solar Cells. *Energy Technology*,2200234	3.5	2