

Giulia Grancini

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Manipulating Color Emission in 2D Hybrid Perovskites by Fine Tuning Halide Segregation: A Transparent Green Emitter. <i>Advanced Materials</i> , 2022, 34, e2105942.	11.1	24
2	COVID-19 vaccinations: The unknowns, challenges, and hopes. <i>Journal of Medical Virology</i> , 2022, 94, 1336-1349.	2.5	75
3	A step beyond in steady-state and time-resolved electro-optical spectroscopy: Demonstration of a customized simple, compact, low-cost, fiber-based interferometer system. <i>Structural Dynamics</i> , 2022, 9, 011101.	0.9	5
4	From Bulk to Surface Passivation: Double Role of Chlorine-Doping for Boosting Efficiency of FAPbI ₃ -rich Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	12
5	Revealing Weak Dimensional Confinement Effects in Excitonic Silver/Bismuth Double Perovskites. <i>Jacs Au</i> , 2022, 2, 136-149.	3.6	12
6	Nonmonotonic Photostability of BA ₂ MA _n -1Pb _n l ₃ +1 Homologous Layered Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 961-970.	4.0	13
7	Imaging and quantifying non-radiative losses at 23% efficient inverted perovskite solar cells interfaces. <i>Nature Communications</i> , 2022, 13, .	5.8	58
8	Turning Molecular Springs into Nano-Shock Absorbers: The Effect of Macroscopic Morphology and Crystal Size on the Dynamic Hysteresis of Water Intrusion-Extrusion into-from Hydrophobic Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26699-26713.	4.0	10
9	Lead or no lead? Availability, toxicity, sustainability and environmental impact of lead-free perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 67-76.	2.7	171
10	Solution-processed two-dimensional materials for next-generation photovoltaics. <i>Chemical Society Reviews</i> , 2021, 50, 11870-11965.	18.7	96
11	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 4508-4522.	15.6	76
12	Accelerated Thermal Aging Effects on Carbon-Based Perovskite Solar Cells: A Joint Experimental and Theoretical Analysis. <i>Solar Rrl</i> , 2021, 5, 2000759.	3.1	4
13	Two-Step Thermal Annealing: An Effective Route for 15% Efficient Quasi-2D Perovskite Solar Cells. <i>ChemPlusChem</i> , 2021, 86, 1044-1048.	1.3	8
14	All-Inorganic Cesium-Based Hybrid Perovskites for Efficient and Stable Solar Cells and Modules. <i>Advanced Energy Materials</i> , 2021, 11, 2100672.	10.2	54
15	Two-Step Thermal Annealing: An Effective Route for 15% Efficient Quasi-2D Perovskite Solar Cells. <i>ChemPlusChem</i> , 2021, 86, 1040-1041.	1.3	1
16	2D/3D perovskite engineering eliminates interfacial recombination losses in hybrid perovskite solar cells. <i>CheM</i> , 2021, 7, 1903-1916.	5.8	108
17	23.7% Efficient inverted perovskite solar cells by dual interfacial modification. <i>Science Advances</i> , 2021, 7, eabj7930.	4.7	205
18	Lead-Free Double Perovskites for Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900306.	3.1	127

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19	Band-bending induced passivation: high performance and stable perovskite solar cells using a perhydropoly(silazane) precursor. <i>Energy and Environmental Science</i> , 2020, 13, 1222-1230.	15.6	114
20	Green-Emitting Lead-Free Cs ₄ SnBr ₆ Zero-Dimensional Perovskite Nanocrystals with Improved Air Stability. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 618-623.	2.1	42
21	Exploring the role of halide mixing in lead-free BZA ₂ SnX ₄ two dimensional hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1875-1886.	5.2	21
22	Dynamical evolution of the 2D/3D interface: a hidden driver behind perovskite solar cell instability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2343-2348.	5.2	112
23	Spatial Charge Separation as the Origin of Anomalous Stark Effect in Fluorous 2D Hybrid Perovskites. <i>Advanced Functional Materials</i> , 2020, 30, 2000228.	7.8	12
24	Dealing with Lead in Hybrid Perovskite: A Challenge to Tackle for a Bright Future of This Technology?. <i>Advanced Energy Materials</i> , 2020, 10, 2001471.	10.2	41
25	Vacuum-Induced Degradation of 2D Perovskites. <i>Frontiers in Chemistry</i> , 2020, 8, 66.	1.8	19
26	Halide perovskites: current issues and new strategies to push material and device stability. <i>JPhys Energy</i> , 2020, 2, 021005.	2.3	40
27	In Situ Analysis Reveals the Role of 2D Perovskite in Preventing Thermal-Induced Degradation in 2D/3D Perovskite Interfaces. <i>Nano Letters</i> , 2020, 20, 3992-3998.	4.5	95
28	Borderless collaboration is needed for COVID-19 – A disease that knows no borders. <i>Infection Control and Hospital Epidemiology</i> , 2020, 41, 1245-1246.	1.0	64
29	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5713-5720.	2.1	47
30	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> , 2019, 478, 607-614.	3.1	48
31	Saddle-like, π -conjugated, cyclooctatetrathiophene-based, hole-transporting material for perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6656-6663.	2.7	27
32	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> , 2019, 7, 8073-8077.	5.2	42
33	Non-Planar and Flexible Hole-Transporting Materials from Bis-Xanthene and Bis-Thioxanthene Units for Perovskite Solar Cells. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900056.	1.0	3
34	Pushing the limit of Cs incorporation into FAPbBr ₃ perovskite to enhance solar cells performances. <i>APL Materials</i> , 2019, 7, .	2.2	33
35	Dimensional tailoring of hybrid perovskites for photovoltaics. <i>Nature Reviews Materials</i> , 2019, 4, 4-22.	23.3	671
36	Auto-passivation of crystal defects in hybrid imidazolium/methylammonium lead iodide films by fumigation with methylamine affords high efficiency perovskite solar cells. <i>Nano Energy</i> , 2019, 58, 105-111.	8.2	78

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37	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. <i>Frontiers in Chemistry</i> , 2019, 7, 946.	1.8	14
38	A new era for solar energy: hybrid perovskite rocks. <i>Photoniques</i> , 2019, , 24-31.	0.0	3
39	Co-Solvent Effect in the Processing of the Perovskite:Fullerene Blend Films for Electron Transport Layer-Free Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2512-2520.	1.5	19
40	Selective growth of layered perovskites for stable and efficient photovoltaics. <i>Energy and Environmental Science</i> , 2018, 11, 952-959.	15.6	305
41	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. <i>Joule</i> , 2018, 2, 788-798.	11.7	187
42	Fashioning Fluorous Organic Spacers for Tunable and Stable Layered Hybrid Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 8211-8220.	3.2	35
43	Analysis of Photocarrier Dynamics at Interfaces in Perovskite Solar Cells by Time-Resolved Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26805-26815.	1.5	79
44	Hysteresis-Free Lead-Free Double-Perovskite Solar Cells by Interface Engineering. <i>ACS Energy Letters</i> , 2018, 3, 1781-1786.	8.8	182
45	A Facile Preparative Route of Nanoscale Perovskites over Mesoporous Metal Oxide Films and Their Applications to Photosensitizers and Light Emitters. <i>Advanced Functional Materials</i> , 2018, 28, 1803801.	7.8	17
46	Picosecond Capture of Photoexcited Electrons Improves Photovoltaic Conversion in MAPbI ₃ :C ₇₀ -Doped Planar and Mesoporous Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1801496.	11.1	17
47	Water-Repellent Low-Dimensional Fluorous Perovskite as Interfacial Coating for 20% Efficient Solar Cells. <i>Nano Letters</i> , 2018, 18, 5467-5474.	4.5	118
48	Optimization of Stable Quasi-Cubic FA _x MA _{1-x} PbI ₃ Perovskite Structure for Solar Cells with Efficiency beyond 20%. <i>ACS Energy Letters</i> , 2017, 2, 802-806.	8.8	158
49	Femtosecond Charge Injection Dynamics at Hybrid Perovskite Interfaces. <i>ChemPhysChem</i> , 2017, 18, 2381-2389.	1.0	24
50	One-Year stable perovskite solar cells by 2D/3D interface engineering. <i>Nature Communications</i> , 2017, 8, 15684.	5.8	1,625
51	From Nano- to Micrometer Scale: The Role of Antisolvent Treatment on High Performance Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 3490-3498.	3.2	234
52	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
53	Lattice Distortions Drive Electron-Hole Correlation within Micrometer-Size Lead-Iodide Perovskite Crystals. <i>ACS Energy Letters</i> , 2017, 2, 265-269.	8.8	19
54	Highly efficient perovskite solar cells with a compositionally engineered perovskite/hole transporting material interface. <i>Energy and Environmental Science</i> , 2017, 10, 621-627.	15.6	436

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55	Molecularly Engineered Phthalocyanines as Hole-Transporting Materials in Perovskite Solar Cells Reaching Power Conversion Efficiency of 17.5%. <i>Advanced Energy Materials</i> , 2017, 7, 1601733.	10.2	90
56	Low-Cost TiS_2 as Hole-Transport Material for Perovskite Solar Cells. <i>Small Methods</i> , 2017, 1, 1700250.	4.6	47
57	Dopant-Free Hole-Transporting Materials for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606555.	11.1	171
58	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. <i>Nature Energy</i> , 2017, 2, 972-979.	19.8	445
59	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
60	High-Efficiency Perovskite Solar Cells Using Molecularly Engineered, Thiophene-Rich, Hole-Transporting Materials: Influence of Alkyl Chain Length on Power Conversion Efficiency. <i>Advanced Energy Materials</i> , 2017, 7, 1601674.	10.2	125
61	Lattice distortions drive electron-hole correlation within micrometer size lead-iodide perovskite. , 2017, , .		0
62	Ion Migration and the Role of Preconditioning Cycles in the Stabilization of the J-V Characteristics of Inverted Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501453.	10.2	167
63	An efficient perovskite solar cell with symmetrical Zn(ii) phthalocyanine infiltrated buffering porous Al_2O_3 as the hybrid interfacial hole-transporting layer. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27083-27089.	1.3	38
64	Intrinsic Halide Segregation at Nanometer Scale Determines the High Efficiency of Mixed Cation/Mixed Halide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15821-15824.	6.6	179
65	Enhanced $\text{TiO}_2/\text{MAPbI}_3$ Electronic Coupling by Interface Modification with PbI_2 . <i>Chemistry of Materials</i> , 2016, 28, 3612-3615.	3.2	60
66	Donor-acceptor donor type hole transporting materials: marked π -bridge effects on optoelectronic properties, solid-state structure, and perovskite solar cell efficiency. <i>Chemical Science</i> , 2016, 7, 6068-6075.	3.7	85
67	Carrier trapping and recombination: the role of defect physics in enhancing the open circuit voltage of metal halide perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 3472-3481.	15.6	409
68	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon-Phonon Interactions. <i>ChemSusChem</i> , 2016, 9, 2994-3004.	3.6	51
69	Exceedingly Cheap Perovskite Solar Cells Using Iron Pyrite Hole Transport Materials. <i>ChemistrySelect</i> , 2016, 1, 5316-5319.	0.7	25
70	PbI_2 -HMPA Complex Pretreatment for Highly Reproducible and Efficient $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 14380-14387.	6.6	107
71	Molecular Engineering of Iridium Blue Emitters Using Aryl N-Heterocyclic Carbene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5089-5097.	1.0	19
72	Beneficial Role of Reduced Graphene Oxide for Electron Extraction in Highly Efficient Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 3040-3044.	3.6	73

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73	Copper Thiocyanate Inorganic Hole-Transporting Material for High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 1112-1117.	8.8	115
74	The Role of Higher Lying Electronic States in Charge Photogeneration in Organic Solar Cells. Advanced Functional Materials, 2015, 25, 6893-6899.	7.8	3
75	Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. Advanced Energy Materials, 2015, 5, 1500962.	10.2	225
76	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. Journal of Physical Chemistry C, 2015, 119, 28691-28700.	1.5	27
77	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.	7.3	451
78	Modulating Exciton Dynamics in Composite Nanocrystals for Excitonic Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2489-2495.	2.1	20
79	Hyperbranched Quasi-1D TiO ₂ Nanostructure for Hybrid Organic-Inorganic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 7451-7455.	4.0	14
80	High efficiency methylammonium lead triiodide perovskite solar cells: the relevance of non-stoichiometric precursors. Energy and Environmental Science, 2015, 8, 3550-3556.	15.6	384
81	Role of microstructure in the electron-hole interaction of hybrid lead halide perovskites. Nature Photonics, 2015, 9, 695-701.	15.6	226
82	CH ₃ NH ₃ PbI ₃ perovskite single crystals: surface photophysics and their interaction with the environment. Chemical Science, 2015, 6, 7305-7310.	3.7	192
83	Modulating the Electron-Hole Interaction in a Hybrid Lead Halide Perovskite with an Electric Field. Journal of the American Chemical Society, 2015, 137, 15451-15459.	6.6	61
84	Excitons versus free charges in organo-lead tri-halide perovskites. Nature Communications, 2014, 5, 3586.	5.8	1,443
85	Supramolecular Halogen Bond Passivation of Organic-Inorganic Halide Perovskite Solar Cells. Nano Letters, 2014, 14, 3247-3254.	4.5	651
86	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. Thin Solid Films, 2014, 560, 44-48.	0.8	4
87	The Raman Spectrum of the CH ₃ NH ₃ PbI ₃ Hybrid Perovskite: Interplay of Theory and Experiment. Journal of Physical Chemistry Letters, 2014, 5, 279-284.	2.1	555
88	The critical role of interfacial dynamics in the stability of organic photovoltaic devices. Physical Chemistry Chemical Physics, 2014, 16, 8294-8300.	1.3	18
89	Three-Dimensional Self-Assembly of Networked Branched TiO ₂ Nanocrystal Scaffolds for Efficient Room-Temperature Processed Depleted Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 5026-5033.	4.0	7
90	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 3836-3842.	2.1	238

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91	Molecular Packing and Electronic Processes in Amorphous-like Polymer Bulk Heterojunction Solar Cells with Fullerene Intercalation. <i>Scientific Reports</i> , 2014, 4, 5211.	1.6	32
92	Ultrafast charge photogeneration in low band-gap semiconducting polymer based solid-state dye sensitized solar cell (sDSC). , 2014, , .		0
93	Reply to 'Measuring internal quantum efficiency to demonstrate hot exciton dissociation'. <i>Nature Materials</i> , 2013, 12, 594-595.	13.3	15
94	Electron-Hole Diffusion Lengths Exceeding 1 Micrometer in an Organometal Trihalide Perovskite Absorber. <i>Science</i> , 2013, 342, 341-344.	6.0	8,703
95	Panchromatic "Dye-Doped" Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 442-447.	2.1	14
96	Hot exciton dissociation in polymer solar cells. <i>Nature Materials</i> , 2013, 12, 29-33.	13.3	567
97	Polymerization Inhibition by Triplet State Absorption for Nanoscale Lithography. <i>Advanced Materials</i> , 2013, 25, 904-909.	11.1	59
98	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013, 6, 1565.	15.6	29
99	Charge Photogeneration in Donor"Acceptor Conjugated Materials: Influence of Excess Excitation Energy and Chain Length. <i>Journal of the American Chemical Society</i> , 2013, 135, 4282-4290.	6.6	69
100	Ultrafast Energy Transfer in Ultrathin Organic Donor/Acceptor Blend. <i>Scientific Reports</i> , 2013, 3, 2073.	1.6	39
101	Effect of polymer morphology on P3HT-based solid-state dye sensitized solar cells: an ultrafast spectroscopic investigation. <i>Optics Express</i> , 2013, 21, A469.	1.7	17
102	Ultrafast exciton dissociation at donor/acceptor interfaces. , 2013, , .		1
103	Hot Exciton Dissociation at Organic Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1537, 1.	0.1	0
104	Ultrafast hot exciton dissociation at organic interfaces. , 2013, , .		0
105	Ultrafast Charge Separation in Low Band-Gap Polymer Blend for Photovoltaics. <i>EPJ Web of Conferences</i> , 2013, 41, 04010.	0.1	1
106	Transient absorption spectroscopic techniques for organic photovoltaics: tracking the photogenerated charges. , 2012, , .		0
107	Ultrafast Charge Separation in Low Band-Gap Polymer Blend for Photovoltaics. , 2012, , .		0
108	Ultrafast spectroscopic imaging of exfoliated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2497-2499.	0.7	7

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109	Ultrafast internal conversion in a low band gap polymer for photovoltaics: experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6367.	1.3	43
110	Dynamic Microscopy Study of Ultrafast Charge Transfer in a Hybrid P3HT/Hyperbranched CdSe Nanoparticle Blend for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 517-523.	2.1	40
111	Influence of Blend Composition on Ultrafast Charge Generation and Recombination Dynamics in Low Band Gap Polymer-Based Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9838-9844.	1.5	27
112	Confocal ultrafast pump-probe spectroscopy: a new technique to explore nanoscale composites. <i>Nanoscale</i> , 2012, 4, 2219.	2.8	31
113	Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. <i>Advanced Functional Materials</i> , 2012, 22, 2160-2166.	7.8	49
114	Transient Absorption Imaging of P3HT:PCBM Photovoltaic Blend: Evidence For Interfacial Charge Transfer State. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1099-1105.	2.1	171
115	Pump-Probe Spectroscopy in Organic Semiconductors: Monitoring Fundamental Processes of Relevance in Optoelectronics. <i>Advanced Materials</i> , 2011, 23, 5468-5485.	11.1	131
116	Sub-Micrometer Charge Modulation Microscopy of a High Mobility Polymeric n-Channel Field-Effect Transistor. <i>Advanced Materials</i> , 2011, 23, 5086-5090.	11.1	55
117	Coherent Raman microscopy with a fiber-format femtosecond oscillator. , 2011, , .		0
118	Nanoscale Imaging of the Interface Dynamics in Polymer Blends by Femtosecond Pump-Probe Confocal Microscopy. <i>Advanced Materials</i> , 2010, 22, 3048-3051.	11.1	35
119	Investigation of Local Dynamics on the Sub-micron Scale in Organic Blends Using an Ultrafast Confocal Microscope. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1270, 1.	0.1	0
120	Fiber-format stimulated-Raman-scattering microscopy from a single laser oscillator. <i>Optics Letters</i> , 2010, 35, 226.	1.7	88
121	Coherent Raman Microscopy with a Fiber-Format Femtosecond Laser Oscillator. , 2010, , .		0
122	Ultrafast confocal microscope for time-resolved imaging of thin films. , 2009, , .		0
123	Dependence of the two-photon photoluminescence yield of gold nanostructures on the laser pulse duration. <i>Physical Review B</i> , 2009, 80, .	1.1	87
124	Ultrafast Confocal Microscope for Functional Imaging of Organic Thin Films. <i>Springer Proceedings in Physics</i> , 2009, , 161-165.	0.1	0
125	Growth of layered perovskites for stable and efficient photovoltaics. , 0, , .		0
126	2D/3D Perovskite Interfaces and processes therein. , 0, , .		0

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127	Interface Engineering through 2D Perovskite Cation Modification: a route towards efficient and stable perovskite solar cells. , 0, , .		0
128	Manipulating Two-Dimensional Hybrid Perovskites Optoelectronic Properties and Phase Segregation by Halides Compositional Engineering. , 0, , .		0
129	Accelerated Thermal Aging Effects on Carbon-Based Perovskite Solar Cells: A Joint Experimental and Theoretical Analysis. , 0, , .		1