List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Switchable All Inorganic Halide Perovskite Nanocrystalline Photoelectrodes for Solarâ€Driven Organic Transformations. Solar Rrl, 2022, 6, 2100723.	5.8	5
2	White light emission from lead-free mixed-cation doped Cs ₂ SnCl ₆ nanocrystals. Nanoscale, 2022, 14, 1468-1479.	5.6	29
3	High Quality Inkjet Printedâ€Emissive Nanocrystalline Perovskite CsPbBr ₃ Layers for Color Conversion Layer and LEDs Applications. Advanced Materials Technologies, 2022, 7, .	5.8	18
4	Combining Perovskites and Quantum Dots: Synthesis, Characterization, and Applications in Solar Cells, LEDs, and Photodetectors. Advanced Optical Materials, 2022, 10, .	7.3	23
5	Tin perovskite solar cells with >1,300Âh of operational stability in N2 through a synergistic chemical engineering approach. Joule, 2022, 6, 861-883.	24.0	92
6	Application of Halide Perovskite Nanocrystals in Solarâ€Driven Photo(electro)Catalysis. Solar Rrl, 2022, 6, .	5.8	5
7	Suppressing the Formation of High <i>n</i> -Phase and 3D Perovskites in the Fabrication of Ruddlesden–Popper Perovskite Thin Films by Bulky Organic Cation Engineering. Chemistry of Materials, 2022, 34, 3076-3088.	6.7	13
8	Directional and Polarized Lasing Action on Pbâ€free FASnI ₃ Integrated in Flexible Optical Waveguides. Advanced Optical Materials, 2022, 10, .	7.3	8
9	Understanding equivalent circuits in perovskite solar cells. Insights from drift-diffusion simulation. Physical Chemistry Chemical Physics, 2022, 24, 15657-15671.	2.8	34
10	Tunable Carbon–CsPbI 3 Quantum Dots for White LEDs. Advanced Optical Materials, 2021, 9, 2001508.	7.3	18
11	Assessing health and environmental impacts of solvents for producing perovskite solar cells. Nature Sustainability, 2021, 4, 277-285.	23.7	117
12	Engineering Sr-doping for enabling long-term stable FAPb _{1â^'x} Sr _x I ₃ quantum dots with 100% photoluminescence quantum yield. Journal of Materials Chemistry C, 2021, 9, 1555-1566.	5.5	23
13	A first-principles study of the stability, electronic structure, and optical properties of halide double perovskite Rb ₂ Sn _{1â^x} Te _x I ₆ for solar cell applications. Physical Chemistry Chemical Physics, 2021, 23, 4646-4657.	2.8	19
14	High Optical Performance of Cyanâ€Emissive CsPbBr ₃ Perovskite Quantum Dots Embedded in Molecular Organogels. Advanced Optical Materials, 2021, 9, 2001786.	7.3	10
15	Comparison of Perovskite Solar Cells with other Photovoltaics Technologies from the Point of View of Life Cycle Assessment. Advanced Energy and Sustainability Research, 2021, 2, 2000088.	5.8	46
16	Preparation of nanoscale inorganic CsPblxBr3-x perovskite photosensitizers on the surface of mesoporous TiO2 film for solid-state sensitized solar cells. Applied Surface Science, 2021, 551, 149387.	6.1	4
17	Inhomogeneous Broadening of Photoluminescence Spectra and Kinetics of Nanometer-Thick (Phenethylammonium) ₂ Pbl ₄ Perovskite Thin Films: Implications for Optoelectronics. ACS Applied Nano Materials, 2021, 4, 6170-6177.	5.0	12
18	Progress in halide-perovskite nanocrystals with near-unity photoluminescence quantum yield. Trends in Chemistry, 2021, 3, 499-511.	8.5	63

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19	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
20	Recycled Photons Traveling Several Millimeters in Waveguides Based on CsPbBr ₃ Perovskite Nanocrystals. Advanced Optical Materials, 2021, 9, 2100807.	7.3	7
21	Comparison between Trion and Exciton Electronic Properties in CdSe and PbS Nanoplatelets. Journal of Physical Chemistry C, 2021, 125, 15614-15622.	3.1	10
22	Synthetic and Post-Synthetic Strategies to Improve Photoluminescence Quantum Yields in Perovskite Quantum Dots. Catalysts, 2021, 11, 957.	3.5	1
23	Lead halide perovskite nanocrystals: optical properties and nanophotonics. , 2021, , .		Ο
24	Continuousâ€Flow Synthesis of Orange Emitting Sn(II)â€Đoped CsBr Materials. Advanced Optical Materials, 2021, 9, 2101024.	7.3	5
25	A Perspective on the Commercial Viability of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100401.	5.8	33
26	Boosting Long-Term Stability of Pure Formamidinium Perovskite Solar Cells by Ambient Air Additive Assisted Fabrication. ACS Energy Letters, 2021, 6, 3511-3521.	17.4	56
27	Homogeneous and inhomogeneous broadening in single perovskite nanocrystals investigated by micro-photoluminescence. Journal of Luminescence, 2021, 240, 118453.	3.1	18
28	High-throughput analysis of the ideality factor to evaluate the outdoor performance of perovskite solar minimodules. Nature Energy, 2021, 6, 54-62.	39.5	40
29	Morphology and Band Structure of Orthorhombic PbS Nanoplatelets: An Indirect Band Gap Material. Chemistry of Materials, 2021, 33, 420-429.	6.7	7
30	Energy Spotlight. ACS Energy Letters, 2021, 6, 3750-3752.	17.4	2
31	A Perspective on the Commercial Viability of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2170113.	5.8	10
32	Efficient and Stable Blue- and Red-Emitting Perovskite Nanocrystals through Defect Engineering: PbX ₂ Purification. Chemistry of Materials, 2021, 33, 8745-8757.	6.7	24
33	Effect of Pristine Graphene on Methylammonium Lead Iodide Films and Implications on Solar Cell Performance. ACS Applied Energy Materials, 2021, 4, 13943-13951.	5.1	7
34	Thermodynamic stability screening of IR-photonic processed multication halide perovskite thin films. Journal of Materials Chemistry A, 2021, 9, 26885-26895.	10.3	4
35	Chemi-Structural Stabilization of Formamidinium Lead Iodide Perovskite by Using Embedded Quantum Dots. ACS Energy Letters, 2020, 5, 418-427.	17.4	87
36	Unravelling the Photocatalytic Behavior of All-Inorganic Mixed Halide Perovskites: The Role of Surface Chemical States. ACS Applied Materials & Amp; Interfaces, 2020, 12, 914-924.	8.0	55

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37	Optimizing Performance and Operational Stability of CsPbI ₃ Quantum-Dot-Based Light-Emitting Diodes by Interface Engineering. ACS Applied Electronic Materials, 2020, 2, 2525-2534.	4.3	24
38	Abiotic depletion and the potential risk to the supply of cesium. Resources Policy, 2020, 68, 101792.	9.6	7
39	Current Challenges in the Development of Quantum Dot Sensitized Solar Cells. Advanced Energy Materials, 2020, 10, 2001774.	19.5	48
40	Photo-Induced Black Phase Stabilization of CsPbI3 QDs Films. Nanomaterials, 2020, 10, 1586.	4.1	8
41	Preferred Growth Direction by PbS Nanoplatelets Preserves Perovskite Infrared Light Harvesting for Stable, Reproducible, and Efficient Solar Cells. Advanced Energy Materials, 2020, 10, 2002422.	19.5	20
42	Role of Self-Absorption in the Photoluminescence Waveguided along CsPbBr3 Perovskite Nanocrystals Thin Films. , 2020, , .		0
43	Purcell Enhancement and Wavelength Shift of Emitted Light by CsPbl ₃ Perovskite Nanocrystals Coupled to Hyperbolic Metamaterials. ACS Photonics, 2020, 7, 3152-3160.	6.6	22
44	Deciphering the role of quantum dot size in the ultrafast charge carrier dynamics at the perovskite–quantum dot interface. Journal of Materials Chemistry C, 2020, 8, 14834-14844.	5.5	9
45	Structural and Electrical Investigation of Cobalt-Doped NiOx/Perovskite Interface for Efficient Inverted Solar Cells. Nanomaterials, 2020, 10, 872.	4.1	11
46	Turn defects into strengths. Nature Energy, 2020, 5, 363-364.	39.5	9
47	Stabilization of Black Perovskite Phase in FAPbl ₃ and CsPbl ₃ . ACS Energy Letters, 2020, 5, 1974-1985.	17.4	203
48	Ligand & band gap engineering: tailoring the protocol synthesis for achieving high-quality CsPbl ₃ quantum dots. Nanoscale, 2020, 12, 14194-14203.	5.6	48
49	Enhanced operational stability through interfacial modification by active encapsulation of perovskite solar cells. Applied Physics Letters, 2020, 116, 113502.	3.3	16
50	Nanoscale Perovskite‣ensitized Solar Cell Revisited: Dyeâ€Cell or Perovskiteâ€Cell?. ChemSusChem, 2020, 13, 2571-2576.	6.8	10
51	Widening the 2D/3D Perovskite Family for Efficient and Thermal-Resistant Solar Cells by the Use of Secondary Ammonium Cations. ACS Energy Letters, 2020, 5, 1013-1021.	17.4	36
52	Mechanisms of Spontaneous and Amplified Spontaneous Emission in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>CH</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:msub><mml: mathvariant="normal">I<mml:mn>3</mml:mn></mml: </mml:msub> Perovskite Thin Films Integrated in an Ontical Waveguide, Physical Review Applied, 2020, 13</mml:msub></mml:math 	mi зßH <td>nmboni><mml< td=""></mml<></td>	nmboni> <mml< td=""></mml<>
53	Interpretation of the photoluminescence decay kinetics in metal halide perovskite nanocrystals and thin polycrystalline films. Journal of Luminescence, 2020, 221, 117092.	3.1	30
54	Energy Spotlight. ACS Energy Letters, 2020, 5, 1662-1664.	17.4	3

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55	Enhanced nanoscopy of individual CsPbBr3 perovskite nanocrystals using dielectric sub-micrometric antennas. APL Materials, 2020, 8, 021109.	5.1	9
56	An Equivalent Circuit for Perovskite Solar Cell Bridging Sensitized to Thin Film Architectures. Joule, 2019, 3, 2535-2549.	24.0	83
57	PbS quantum dots as additives in methylammonium halide perovskite solar cells: the effect of quantum dot capping. Nanoscale Advances, 2019, 1, 4109-4118.	4.6	32
58	Amplified Spontaneous Emission in Thin Films of CsPbX ₃ Perovskite Nanocrystals. , 2019, , .		1
59	Single-Exciton Amplified Spontaneous Emission in Thin Films of CsPbX ₃ (X = Br, I) Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 6389-6398.	4.6	46
60	Photocatalytic and Photoelectrochemical Degradation of Organic Compounds with All-Inorganic Metal Halide Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2019, 10, 630-636.	4.6	124
61	Optical Amplification in Hollow-Core Negative-Curvature Fibers Doped with Perovskite CsPbBr3 Nanocrystals. Nanomaterials, 2019, 9, 868.	4.1	5
62	Analysis of the UV–Ozoneâ€Treated SnO ₂ Electron Transporting Layer in Planar Perovskite Solar Cells for High Performance and Reduced Hysteresis. Solar Rrl, 2019, 3, 1900191.	5.8	62
63	Flash infrared annealing as a cost-effective and low environmental impact processing method for planar perovskite solar cells. Materials Today, 2019, 31, 39-46.	14.2	65
64	The Bloom of Perovskite Optoelectronics: Fundamental Science Matters. ACS Energy Letters, 2019, 4, 861-865.	17.4	24
65	Impedance analysis of perovskite solar cells: a case study. Journal of Materials Chemistry A, 2019, 7, 12191-12200.	10.3	109
66	Outstanding nonlinear optical properties of methylammonium- and Cs-PbX3 (X = Br, I, and Br–I) perovskites: Polycrystalline thin films and nanoparticles. APL Materials, 2019, 7, .	5.1	53
67	Interaction between Colloidal Quantum Dots and Halide Perovskites: Looking for Constructive Synergies. Journal of Physical Chemistry Letters, 2019, 10, 1099-1108.	4.6	36
68	Inhibition of light emission from the metastable tetragonal phase at low temperatures in island-like films of lead iodide perovskites. Nanoscale, 2019, 11, 22378-22386.	5.6	4
69	Optical Characterization of Lead-Free Cs ₂ Snl ₆ Double Perovskite Fabricated from Degraded and Reconstructed CsSnl ₃ Films. ACS Applied Energy Materials, 2019, 2, 8381-8387.	5.1	30
70	Controlling the Phase Segregation in Mixed Halide Perovskites through Nanocrystal Size. ACS Energy Letters, 2019, 4, 54-62.	17.4	149
71	Structural characterization of bulk and nanoparticle lead halide perovskite thin films by (S)TEM techniques. Nanotechnology, 2019, 30, 135701.	2.6	5
72	Operation Mechanism of Perovskite Quantum Dot Solar Cells Probed by Impedance Spectroscopy. ACS Energy Letters, 2019, 4, 251-258.	17.4	73

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73	How Do Perovskite Solar Cells Work?. Joule, 2018, 2, 585-587.	24.0	34
74	Impedance Spectroscopy Measurements in Perovskite Solar Cells: Device Stability and Noise Reduction. ACS Energy Letters, 2018, 3, 1044-1048.	17.4	103
75	Homeopathic Perovskite Solar Cells: Effect of Humidity during Fabrication on the Performance and Stability of the Device. Journal of Physical Chemistry C, 2018, 122, 5341-5348.	3.1	43
76	A Comparative Study of Lightâ€Emitting Diodes Based on Allâ€Inorganic Perovskite Nanoparticles (CsPbBr ₃) Synthesized at Room Temperature and by a Hotâ€Injection Method. ChemPlusChem, 2018, 83, 294-299.	2.8	27
77	Study of the Partial Substitution of Pb by Sn in Cs–Pb–Sn–Br Nanocrystals Owing to Obtaining Stable Nanoparticles with Excellent Optical Properties. Journal of Physical Chemistry C, 2018, 122, 14222-14231.	3.1	38
78	Perovskite-quantum dots interface: Deciphering its ultrafast charge carrier dynamics. Nano Energy, 2018, 49, 471-480.	16.0	23
79	Integrated Optical Amplifier–Photodetector on a Wearable Nanocellulose Substrate. Advanced Optical Materials, 2018, 6, 1800201.	7.3	24
80	Fullereneâ€Based Materials as Holeâ€Transporting/Electronâ€Blocking Layers: Applications in Perovskite Solar Cells. Chemistry - A European Journal, 2018, 24, 8524-8529.	3.3	25
81	Device performance and light characteristics stability of quantum-dot-based white-light-emitting diodes. Nano Research, 2018, 11, 1575-1588.	10.4	20
82	Relative impacts of methylammonium lead triiodide perovskite solar cells based on life cycle assessment. Solar Energy Materials and Solar Cells, 2018, 179, 169-177.	6.2	34
83	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. Physical Chemistry Chemical Physics, 2018, 20, 30189-30199.	2.8	22
84	Perovskite Photovoltaic Modules: Life Cycle Assessment of Pre-industrial Production Process. IScience, 2018, 9, 542-551.	4.1	51
85	Perovskite-Polymer Blends Influencing Microstructures, Nonradiative Recombination Pathways, and Photovoltaic Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 42542-42551.	8.0	50
86	Recent insights for achieving mixed halide perovskites without halide segregation. Current Opinion in Electrochemistry, 2018, 11, 84-90.	4.8	33
87	Quantum dot-sensitized solar cells. Chemical Society Reviews, 2018, 47, 7659-7702.	38.1	344
88	Spray-Pyrolyzed ZnO as Electron Selective Contact for Long-Term Stable Planar CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 4057-4064.	5.1	18
89	Evaluation of multiple cation/anion perovskite solar cells through life cycle assessment. Sustainable Energy and Fuels, 2018, 2, 1600-1609.	4.9	23
90	Optical Optimization of the TiO ₂ Mesoporous Layer in Perovskite Solar Cells by the Addition of SiO ₂ Nanoparticles. ACS Omega, 2018, 3, 9798-9804.	3.5	18

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91	Toward Efficient Carbon Nitride Photoelectrochemical Cells: Understanding Charge Transfer Processes. Advanced Materials Interfaces, 2017, 4, 1600265.	3.7	24
92	Enhanced Photovoltaic Performance of Mesoscopic Perovskite Solar Cells by Controlling the Interaction between CH ₃ NH ₃ PbI ₃ Films and CsPbX ₃ Perovskite Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 4239-4245.	3.1	42
93	Improvement of Photovoltaic Performance of Colloidal Quantum Dot Solar Cells Using Organic Small Molecule as Hole-Selective Layer. Journal of Physical Chemistry Letters, 2017, 8, 2163-2169.	4.6	35
94	Inorganic Surface Engineering to Enhance Perovskite Solar Cell Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 13181-13187.	8.0	58
95	Transformation of PbI ₂ , PbBr ₂ and PbCl ₂ salts into MAPbBr ₃ perovskite by halide exchange as an effective method for recombination reduction. Physical Chemistry Chemical Physics, 2017, 19, 10913-10921.	2.8	27
96	Electron injection and scaffold effects in perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 634-644.	5.5	58
97	Enhancement of the Performance of Perovskite Solar Cells, LEDs, and Optical Amplifiers by Antiâ€ S olvent Additive Deposition. Advanced Materials, 2017, 29, 1604056.	21.0	63
98	Conjugated Organic Cations to Improve the Optoelectronic Properties of 2D/3D Perovskites. ACS Energy Letters, 2017, 2, 1969-1970.	17.4	52
99	Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2007-2013.	17.4	65
100	Interfaces in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700623.	19.5	276
101	Operating Mechanisms of Mesoscopic Perovskite Solar Cells through Impedance Spectroscopy and <i>J</i> – <i>V</i> Modeling. Journal of Physical Chemistry Letters, 2017, 8, 6073-6079.	4.6	69
102	Enhancement of Efficiency in Quantum Dot Sensitized Solar Cells Based on CdS/CdSe/CdSeTe Heterostructure by Improving the Light Absorption in the VIS-NIR Region. Electrochimica Acta, 2017, 247, 899-909.	5.2	37
103	Single step deposition of an interacting layer of a perovskite matrix with embedded quantum dots. Nanoscale, 2016, 8, 14379-14383.	5.6	29
104	Properties of Contact and Bulk Impedances in Hybrid Lead Halide Perovskite Solar Cells Including Inductive Loop Elements. Journal of Physical Chemistry C, 2016, 120, 8023-8032.	3.1	407
105	Co ₃ O ₄ Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study. Journal of Physical Chemistry C, 2016, 120, 9053-9060.	3.1	22
106	Halide perovskite amplifiers integrated in polymer waveguides. , 2016, , .		0
107	Electron Transport Layerâ€Free Solar Cells Based on Perovskite–Fullerene Blend Films with Enhanced Performance and Stability. ChemSusChem, 2016, 9, 2679-2685.	6.8	60
108	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. Journal of Physical Chemistry Letters, 2016, 7, 5105-5113.	4.6	346

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109	Influence of the substrate on the bulk properties of hybrid lead halide perovskite films. Journal of Materials Chemistry A, 2016, 4, 18153-18163.	10.3	52
110	Analysis of the Hysteresis Behavior of Perovskite Solar Cells with Interfacial Fullerene Self-Assembled Monolayers. Journal of Physical Chemistry Letters, 2016, 7, 4622-4628.	4.6	68
111	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. Electrochimica Acta, 2016, 187, 249-255.	5.2	79
112	Tunable light emission by exciplex state formation between hybrid halide perovskite and core/shell quantum dots: Implications in advanced LEDs and photovoltaics. Science Advances, 2016, 2, e1501104.	10.3	66
113	Effect of the electrophoretic deposition of Au NPs in the performance CdS QDs sensitized solar Cells. Electrochimica Acta, 2016, 188, 710-717.	5.2	32
114	Recombination reduction on lead halide perovskite solar cells based on low temperature synthesized hierarchical TiO ₂ nanorods. Nanoscale, 2016, 8, 6271-6277.	5.6	28
115	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. Advanced Materials, 2015, 27, 6157-6162.	21.0	83
116	Effect of Different Sensitization Technique on the Photoconversion Efficiency of CdS Quantum Dot and CdSe Quantum Rod Sensitized TiO ₂ Solar Cells. Journal of Physical Chemistry C, 2015, 119, 13394-13403.	3.1	68
117	Using combined photoreflectance and photoluminescence for understanding optical transitions in perovskites. , 2015, , .		2
118	Band Engineering in Core/Shell ZnTe/CdSe for Photovoltage and Efficiency Enhancement in Exciplex Quantum Dot Sensitized Solar Cells. ACS Nano, 2015, 9, 908-915.	14.6	241
119	Classification of solar cells according to mechanisms of charge separation and charge collection. Physical Chemistry Chemical Physics, 2015, 17, 4007-4014.	2.8	102
120	High reduction of interfacial charge recombination in colloidal quantum dot solar cells by metal oxide surface passivation. Nanoscale, 2015, 7, 5446-5456.	5.6	82
121	Cooperative kinetics of depolarization in CH ₃ NH ₃ PbI ₃ perovskite solar cells. Energy and Environmental Science, 2015, 8, 910-915.	30.8	116
122	Fast and low temperature growth of electron transport layers for efficient perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 4909-4915.	10.3	101
123	Trend of Perovskite Solar Cells: Dig Deeper to Build Higher. Journal of Physical Chemistry Letters, 2015, 6, 2315-2317.	4.6	27
124	Synergistic Interaction of Dyes and Semiconductor Quantum Dots for Advanced Cascade Cosensitized Solar Cells. Advanced Functional Materials, 2015, 25, 3220-3226.	14.9	28
125	Capacitive Dark Currents, Hysteresis, and Electrode Polarization in Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1645-1652.	4.6	430
126	Bright Visible-Infrared Light Emitting Diodes Based on Hybrid Halide Perovskite with Spiro-OMeTAD as a Hole-Injecting Layer. Journal of Physical Chemistry Letters, 2015, 6, 1883-1890.	4.6	233

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127	Effect of Mesostructured Layer upon Crystalline Properties and Device Performance on Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1628-1637.	4.6	78
128	Boosting Power Conversion Efficiencies of Quantum-Dot-Sensitized Solar Cells Beyond 8% by Recombination Control. Journal of the American Chemical Society, 2015, 137, 5602-5609.	13.7	367
129	Amorphous TiO ₂ Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. Chemistry of Materials, 2015, 27, 8398-8405.	6.7	197
130	Efficient passivated phthalocyanine-quantum dot solar cells. Chemical Communications, 2015, 51, 1732-1735.	4.1	26
131	Effect of different lead precursors on perovskite solar cell performance and stability. Journal of Materials Chemistry A, 2015, 3, 9194-9200.	10.3	131
132	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. Nano, 2014, 09, 1440005.	1.0	7
133	Charge separation at disordered semiconductor heterojunctions from random walk numerical simulations. Physical Chemistry Chemical Physics, 2014, 16, 4082.	2.8	11
134	Titanium Dioxide Nanomaterials for Photovoltaic Applications. Chemical Reviews, 2014, 114, 10095-10130.	47.7	669
135	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1628-1635.	4.6	384
136	Low-Temperature Processed Electron Collection Layers of Graphene/TiO ₂ Nanocomposites in Thin Film Perovskite Solar Cells. Nano Letters, 2014, 14, 724-730.	9.1	999
137	Diffusion–Recombination Impedance Model for Solar Cells with Disorder and Nonlinear Recombination. ChemElectroChem, 2014, 1, 289-296.	3.4	105
138	Role of the Selective Contacts in the Performance of Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 680-685.	4.6	583
139	Theory of Impedance Spectroscopy of Ambipolar Solar Cells with Trap-Mediated Recombination. Journal of Physical Chemistry C, 2014, 118, 16574-16580.	3.1	28
140	General Working Principles of CH ₃ NH ₃ PbX ₃ Perovskite Solar Cells. Nano Letters, 2014, 14, 888-893.	9.1	786
141	Panchromatic Solar-to-H ₂ Conversion by a Hybrid Quantum Dots–Dye Dual Absorber Tandem Device. Journal of Physical Chemistry C, 2014, 118, 891-895.	3.1	27
142	All solution processed low turn-on voltage near infrared LEDs based on core–shell PbS–CdS quantum dots with inverted device structure. Nanoscale, 2014, 6, 8551-8555.	5.6	37
143	New iridium complex as additive to the spiro-OMeTAD in perovskite solar cells with enhanced stability. APL Materials, 2014, 2, .	5.1	60
144	Electrical field profile and doping in planar lead halide perovskite solar cells. Applied Physics Letters, 2014. 105	3.3	168

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145	Quantum Dot-Sensitized Solar Cells. Green Energy and Technology, 2014, , 89-136.	0.6	8
146	Theory of Impedance and Capacitance Spectroscopy of Solar Cells with Dielectric Relaxation, Drift-Diffusion Transport, and Recombination. Journal of Physical Chemistry C, 2014, 118, 18983-18991.	3.1	185
147	Photon Up-Conversion with Lanthanide-Doped Oxide Particles for Solar H ₂ Generation. Journal of Physical Chemistry C, 2014, 118, 11279-11284.	3.1	37
148	Photoinduced Giant Dielectric Constant in Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 2390-2394.	4.6	629
149	Organo-metal halide perovskite-based solar cells with CuSCN as the inorganic hole selective contact. Journal of Materials Chemistry A, 2014, 2, 12754-12760.	10.3	174
150	High-Efficiency "Green―Quantum Dot Solar Cells. Journal of the American Chemical Society, 2014, 136, 9203-9210.	13.7	547
151	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. Journal of Physical Chemistry Letters, 2014, 5, 2357-2363.	4.6	609
152	Mechanism of carrier accumulation in perovskite thin-absorber solar cells. Nature Communications, 2013, 4, 2242.	12.8	760
153	Selective contacts drive charge extraction in quantum dot solids via asymmetry in carrier transfer kinetics. Nature Communications, 2013, 4, 2272.	12.8	56
154	Core/Shell Colloidal Quantum Dot Exciplex States for the Development of Highly Efficient Quantum-Dot-Sensitized Solar Cells. Journal of the American Chemical Society, 2013, 135, 15913-15922.	13.7	400
155	Energy Band Alignment between Anatase and Rutile TiO ₂ . Journal of Physical Chemistry Letters, 2013, 4, 4182-4187.	4.6	210
156	Harnessing Infrared Photons for Photoelectrochemical Hydrogen Generation. A PbS Quantum Dot Based "Quasi-Artificial Leaf― Journal of Physical Chemistry Letters, 2013, 4, 141-146.	4.6	101
157	Effect of Organic and Inorganic Passivation in Quantum-Dot-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 1519-1525.	4.6	96
158	High performance PbS Quantum Dot Sensitized Solar Cells exceeding 4% efficiency: the role of metal precursors in the electron injection and charge separation. Physical Chemistry Chemical Physics, 2013, 15, 13835.	2.8	143
159	Ultrafast characterization of the electron injection from CdSe quantum dots and dye N719 co-sensitizers into TiO2 using sulfide based ionic liquid for enhanced long term stability. Electrochimica Acta, 2013, 100, 35-43.	5.2	20
160	Three dimensional-TiO2 nanotube array photoanode architectures assembled on a thin hollow nanofibrous backbone and their performance in quantum dot-sensitized solar cells. Chemical Communications, 2013, 49, 2810.	4.1	48
161	Quantum Dot Based Heterostructures for Unassisted Photoelectrochemical Hydrogen Generation. Advanced Energy Materials, 2013, 3, 176-182.	19.5	101
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