

# Qingfeng Dong

## List of Publications by Citations

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84  
papers

16,478  
citations

39  
h-index

92  
g-index

92  
ext. papers

18,475  
ext. citations

14.8  
avg, IF

6.84  
L-index

#	Paper	IF	Citations
84	Solar cells. Electron-hole diffusion lengths > 175 nm in solution-grown CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> single crystals. <i>Science</i> , <b>2015</b> , 347, 967-70	33.3	3708
83	Solvent annealing of perovskite-induced crystal growth for photovoltaic-device efficiency enhancement. <i>Advanced Materials</i> , <b>2014</b> , 26, 6503-9	24	1348
82	Giant switchable photovoltaic effect in organometal trihalide perovskite devices. <i>Nature Materials</i> , <b>2015</b> , 14, 193-8	27	1144
81	Efficient, high yield perovskite photovoltaic devices grown by interdiffusion of solution-processed precursor stacking layers. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2619-2623	35.4	1059
80	Highly narrowband perovskite single-crystal photodetectors enabled by surface-charge recombination. <i>Nature Photonics</i> , <b>2015</b> , 9, 679-686	33.9	944
79	Grain boundary dominated ion migration in polycrystalline organic-inorganic halide perovskite films. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1752-1759	35.4	701
78	Large fill-factor bilayer iodine perovskite solar cells fabricated by a low-temperature solution-process. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2359-2365	35.4	688
77	A nanocomposite ultraviolet photodetector based on interfacial trap-controlled charge injection. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 798-802	28.7	534
76	Scaling behavior of moisture-induced grain degradation in polycrystalline hybrid perovskite thin films. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 516-522	35.4	525
75	Scalable fabrication of efficient organolead trihalide perovskite solar cells with doctor-bladed active layers. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1544-1550	35.4	522
74	High-gain and low-driving-voltage photodetectors based on organolead triiodide perovskites. <i>Advanced Materials</i> , <b>2015</b> , 27, 1912-8	24	491
73	Thin Insulating Tunneling Contacts for Efficient and Water-Resistant Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 6734-9	24	430
72	Thin single crystal perovskite solar cells to harvest below-bandgap light absorption. <i>Nature Communications</i> , <b>2017</b> , 8, 1890	17.4	326
71	Enhancing stability and efficiency of perovskite solar cells with crosslinkable silane-functionalized and doped fullerene. <i>Nature Communications</i> , <b>2016</b> , 7, 12806	17.4	293
70	Air-Stable, Efficient Mixed-Cation Perovskite Solar Cells with Cu Electrode by Scalable Fabrication of Active Layer. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600372	21.8	235
69	Ultrafast ion migration in hybrid perovskite polycrystalline thin films under light and suppression in single crystals. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 30484-30490	3.6	228
68	Abnormal crystal growth in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> using a multi-cycle solution coating process. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2464-2470	35.4	224

67	Efficient Semitransparent Perovskite Solar Cells for 23.0%-Efficiency Perovskite/Silicon Four-Terminal Tandem Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601128	21.8	203
66	Composition Engineering in Doctor-Blading of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700302	21.8	195
65	Charge Carrier Lifetimes Exceeding 15 $\mu$ s in Methylammonium Lead Iodide Single Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 923-8	6.4	191
64	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskites: Ferroelasticity revealed. <i>Science Advances</i> , <b>2017</b> , 3, e1602165	14.3	179
63	Organometal Trihalide Perovskite Single Crystals: A Next Wave of Materials for 25% Efficiency Photovoltaics and Applications Beyond?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3218-3227	6.4	179
62	Quantification of re-absorption and re-emission processes to determine photon recycling efficiency in perovskite single crystals. <i>Nature Communications</i> , <b>2017</b> , 8, 14417	17.4	154
61	An Ultraviolet-to-NIR Broad Spectral Nanocomposite Photodetector with Gain. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 549-554	8.1	142
60	Chloride Incorporation Process in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> Perovskites via Nanoscale Bandgap Maps. <i>Nano Letters</i> , <b>2015</b> , 15, 8114-21	11.5	138
59	Lateral-Structure Single-Crystal Hybrid Perovskite Solar Cells via Piezoelectric Poling. <i>Advanced Materials</i> , <b>2016</b> , 28, 2816-21	24	118
58	Solution-processed fullerene-based organic Schottky junction devices for large-open-circuit-voltage organic solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 572-7	24	94
57	Thin-film semiconductor perspective of organometal trihalide perovskite materials for high-efficiency solar cells. <i>Materials Science and Engineering Reports</i> , <b>2016</b> , 101, 1-38	30.9	91
56	Large electrostrictive response in lead halide perovskites. <i>Nature Materials</i> , <b>2018</b> , 17, 1020-1026	27	89
55	Design and synthesis of solution processable small molecules towards high photovoltaic performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2159-2168		79
54	All-spin-coating vacuum-free processed semi-transparent inverted polymer solar cells with PEDOT:PSS anode and PAH-D interfacial layer. <i>Organic Electronics</i> , <b>2010</b> , 11, 1327-1331	3.5	73
53	Efficient lateral-structure perovskite single crystal solar cells with high operational stability. <i>Nature Communications</i> , <b>2020</b> , 11, 274	17.4	69
52	Distinct exciton dissociation behavior of organolead trihalide perovskite and excitonic semiconductors studied in the same system. <i>Small</i> , <b>2015</b> , 11, 2164-9	11	68
51	Unraveling the hidden function of a stabilizer in a precursor in improving hybrid perovskite film morphology for high efficiency solar cells. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 867-872	35.4	56
50	Solution synthesis of copper selenide nanocrystals and their electrical transport properties. <i>CrystEngComm</i> , <b>2012</b> , 14, 2139	3.3	47

49	One-step solution synthesis of bismuth sulfide (Bi <sub>2</sub> S <sub>3</sub> ) with various hierarchical architectures and their photoresponse properties. <i>RSC Advances</i> , <b>2012</b> , 2, 234-240	3.7	44
48	Efficiency enhancement of polymer solar cells by incorporating a self-assembled layer of silver nanodisks. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 3281-3286	6.4	44
47	Green polymer solar cell based on water-soluble poly [3-(potassium-6-hexanoate) thiophene-2,5-diyl] and aqueous-dispersible noncovalent functionalized graphene sheets. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 97, 28-33	6.4	43
46	Donor-Acceptor Molecule as the Acceptor for Polymer-Based Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 7882-7886	3.8	43
45	New amorphous small molecules synthesis, characterization and their application in bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 2272-2280	6.4	39
44	Fast Growth of Thin MAPbI <sub>3</sub> Crystal Wafers on Aqueous Solution Surface for Efficient Lateral-Structure Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807707	15.6	38
43	Synthesis and Application of Ferroelectric P(VDF-TrFE) Nanoparticles in Organic Photovoltaic Devices for High Efficiency. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1581-1588	21.8	38
42	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008820	24	38
41	Improving the sensitivity of a near-infrared nanocomposite photodetector by enhancing trap induced hole injection. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 023301	3.4	37
40	A low band gap donor-Acceptor copolymer containing fluorene and benzothiadiazole units: synthesis and photovoltaic properties. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 385-393	3.6	35
39	Aqueous-solution-processed hybrid solar cells from poly(1,4-naphthalenevinylene) and CdTe nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2919-23	9.5	31
38	Vacuum-free laminated top electrode with conductive tapes for scalable manufacturing of efficient perovskite solar cells. <i>Nano Energy</i> , <b>2015</b> , 16, 47-53	17.1	30
37	A benzo[1,2-b:4,5-b']dithiophene-based copolymer with deep HOMO level for efficient polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 100, 239-245	6.4	29
36	Synthesis, photophysical and photovoltaic properties of star-shaped molecules with triphenylamine as core and phenylethenylthiophene or dithienylethylene as arms. <i>Solar Energy Materials and Solar Cells</i> , <b>2009</b> , 93, 1952-1958	6.4	28
35	Synthesis and photovoltaic properties of low-bandgap 4,7-dithien-2-yl-2,1,3-benzothiadiazole-based poly(heteroarylenevinylene)s. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 2715-2724	2.5	26
34	Atomistic Surface Passivation of CH <sub>3</sub> NHPbI Perovskite Single Crystals for Highly Sensitive Coplanar-Structure X-Ray Detectors. <i>Research</i> , <b>2020</b> , 2020, 5958243	7.8	26
33	Modulating the optical and electrical properties of MAPbBr single crystals via voltage regulation engineering and application in memristors. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 111	16.7	22
32	Low-Temperature Solution-Processed Mg:SnO <sub>2</sub> Nanoparticles as an Effective Cathode Interfacial Layer for Inverted Polymer Solar Cell. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6702-6710	8.3	22

31	Synthesis of Cu <sub>2</sub> Se Nanocrystals by Tuning the Reactivity of Se. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9909-9916	3.8	22
30	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000453	21.8	20
29	Dynamic Passivation in Perovskite Quantum Dots for Specific Ammonia Detection at Room Temperature. <i>Small</i> , <b>2020</b> , 16, e1904462	11	19
28	Stable and Highly Flexible Perovskite Solar Cells with Power Conversion Efficiency Approaching 20% by Elastic Grain Boundary Encapsulation. <i>CCS Chemistry</i> , <b>2021</b> , 3, 2035-2044	7.2	19
27	All-water-solution processed solar cells based on PPV and TiO <sub>2</sub> nanocrystals. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 104, 75-80	6.4	17
26	Zinc alloyed iron pyrite ternary nanocrystals for band gap broadening. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12060	13	17
25	Elimination of Interfacial-Electrochemical-Reaction-Induced Polarization in Perovskite Single Crystals for Ultrasensitive and Stable X-Ray Detector Arrays. <i>Advanced Materials</i> , <b>2021</b> , e2103078	24	15
24	Reducing photovoltage loss at the anode contact of methylammonium-free inverted perovskite solar cells by conjugated polyelectrolyte doping. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7309-7316	13	14
23	Hole Extraction Enhancement for Efficient Polymer Solar Cells with Boronic Acid Functionalized Carbon Nanotubes doped Hole Transport Layers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5122-5131	8.3	14
22	Surface thermal stability of iron pyrite nanocrystals: Role of capping ligands. <i>Thin Solid Films</i> , <b>2014</b> , 562, 361-366	2.2	13
21	Solution-processed nanoparticle super-float-gated organic field-effect transistor as un-cooled ultraviolet and infrared photon counter. <i>Scientific Reports</i> , <b>2013</b> , 3, 2707	4.9	13
20	Reducing Photovoltage Loss in Inverted Perovskite Solar Cells by Quantum Dots Alloying Modification at Cathode Contact. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900468	7.1	13
19	A two-step method combining electrodepositing and spin-coating for solar cell processing. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1051-1056	2.6	11
18	Stable, Efficient Near-Infrared Light-Emitting Diodes Enabled by $\pi$ Phase Modulation. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2101-2107	6.4	10
17	An efficient photovoltaic device based on novel D $\pi$ A $\pi$ D solution-processable small molecules. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 937-947	4.3	10
16	Influence of a polyelectrolyte based-fluorene interfacial layer on the performance of a polymer solar cell. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11443	13	10
15	Novel solution processable small molecule containing new electron-withdrawing group and oligothiophene for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 98, 343-350	6.4	9
14	New 4,7-dithienebenzothiadiazole derivatives with cyano-vinylene bonds: Synthesis, photophysics and photovoltaics. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1471-1477	3.6	9

13	Efficiency Enhancement in Polymer Solar Cells With a Polar Small Molecule Both at Interface and in the Bulk Heterojunction Layer. <i>IEEE Journal of Photovoltaics</i> , <b>2015</b> , 5, 1408-1413	3.7	5
12	NIR Light Driven Terahertz Wave Modulator with a Large Modulation Depth Based on a Silicon-PEDOT:PSS-Perovskite Hybrid System. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1901090	6.8	5
11	Solution-Processed Fullerene-Based Organic Schottky Junction Devices for Large-Open-Circuit-Voltage Organic Solar Cells (Adv. Mater. 4/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 571-574	24	4
10	Photodetectors: High-Gain and Low-Driving-Voltage Photodetectors Based on Organolead Triiodide Perovskites (Adv. Mater. 11/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 1967-1967	24	3
9	Multiple Hydrogen Bond-Induced Structural Distortion for Broadband White-Light Emission in Two-Dimensional Perovskites. <i>CCS Chemistry</i> , 2576-2583	7.2	3
8	Guanidine-Templated Manganese Halides Single Crystals toward Efficient Mechanoluminescence and Photoluminescence by Supramolecular Interactions Modulation. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100862	8.1	3
7	Thermochromic Cs AgBiBr Single Crystal with Decreased Band Gap through Order-Disorder Transition.. <i>Small</i> , <b>2022</b> , e2201943	11	3
6	Ferroelectric Materials: Synthesis and Application of Ferroelectric P(VDF-TrFE) Nanoparticles in Organic Photovoltaic Devices for High Efficiency (Adv. Energy Mater. 12/2013). <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1672-1672	21.8	2
5	Alternating phenylenevinylene copolymers with dithienbenzothiadiazole moieties: Synthesis, photophysical, and photovoltaic properties. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 2740-2750	2.9	1
4	Engineering Crystalline Grain of Hybrid Perovskites for High Efficiency Solar Cells and Beyond <b>2015</b> ,		1
3	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv. Energy Mater. 34/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070144	21.8	1
2	Hydration Intermediate Phase Regulated In-Plane and Out-Plane Epitaxy Growth of Oriented Nano-Array Structures on Perovskite Single Crystals.. <i>Small</i> , <b>2022</b> , 18, e2107915	11	1
1	Synthesis, photophysics and photovoltaics of alternating vinylene-copolymer and model compound containing triphenylamine moieties along the backbone. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1546-1551	3.6	