

# Qing-Dong Ou

## List of Publications by Year in descending order

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88  
papers

4,591  
citations

126907

33  
h-index

98798

67  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-junction Polymer Solar Cells Exceeding 10% Power Conversion Efficiency. <i>Advanced Materials</i> , 2015, 27, 1035-1041.	21.0	1,004
2	Topological polaritons and photonic magic angles in twisted $\text{In}_2\text{S}_3$ - $\text{MoO}_3$ bilayers. <i>Nature</i> , 2020, 582, 209-213.	27.8	413
3	Synthesis, properties, and optical applications of low-dimensional perovskites. <i>Chemical Communications</i> , 2016, 52, 13637-13655.	4.1	252
4	Flexible, Printable Soft X-ray Detectors Based on All-inorganic Perovskite Quantum Dots. <i>Advanced Materials</i> , 2019, 31, e1901644.	21.0	221
5	Photonics and Optoelectronics of 2D Metal-halide Perovskites. <i>Small</i> , 2018, 14, e1800682.	10.0	168
6	Strong Depletion in Hybrid Perovskite p-n Junctions Induced by Local Electronic Doping. <i>Advanced Materials</i> , 2018, 30, e1705792.	21.0	141
7	Extremely Efficient White Organic Light-emitting Diodes for General Lighting. <i>Advanced Functional Materials</i> , 2014, 24, 7249-7256.	14.9	140
8	Light Manipulation for Organic Optoelectronics Using Bio-inspired Moth's Eye Nanostructures. <i>Scientific Reports</i> , 2014, 4, 4040.	3.3	119
9	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. <i>Nano Materials Science</i> , 2019, 1, 268-287.	8.8	118
10	Enhanced Light Harvesting in Organic Solar Cells Featuring a Biomimetic Active Layer and a Self-cleaning Antireflective Coating. <i>Advanced Energy Materials</i> , 2014, 4, 1301777.	19.5	104
11	Microcavity-Free Broadband Light Outcoupling Enhancement in Flexible Organic Light-Emitting Diodes with Nanostructured Transparent Metal-dielectric Composite Electrodes. <i>ACS Nano</i> , 2016, 10, 1625-1632.	14.6	101
12	Hybridized Hyperbolic Surface Phonon Polaritons at $\text{In}_2\text{S}_3$ and Polar Dielectric Interfaces. <i>Nano Letters</i> , 2021, 21, 3112-3119.	9.1	79
13	Outcoupling-Enhanced Flexible Organic Light-Emitting Diodes on Ameliorated Plastic Substrate with Built-in Indium-Tin-Oxide-Free Transparent Electrode. <i>ACS Nano</i> , 2015, 9, 7553-7562.	14.6	78
14	Band Structure Engineering in 2D Materials for Optoelectronic Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1800072.	5.8	78
15	Artificial Metaphotonics Born Naturally in Two Dimensions. <i>Chemical Reviews</i> , 2020, 120, 6197-6246.	47.7	78
16	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , 2020, 11, 6086.	12.8	67
17	Light Manipulation in Organic Photovoltaics. <i>Advanced Science</i> , 2016, 3, 1600123.	11.2	61
18	Controlled Growth of Monocrystalline Organolead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12486-12491.	13.8	54

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19	Chemical switching of low-loss phonon polaritons in $\text{In}_2\text{S}_3$ -MoO <sub>3</sub> by hydrogen intercalation. <i>Nature Communications</i> , 2020, 11, 2646.	12.8	54
20	Recent Advances in Energetics of Metal Halide Perovskite Interfaces. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600694.	3.7	51
21	Manipulating polaritons at the extreme scale in van der Waals materials. <i>Nature Reviews Physics</i> , 2022, 4, 578-594.	26.6	51
22	Light extraction enhancement in organic light-emitting diodes based on localized surface plasmon and light scattering double-effect. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4319.	5.5	49
23	Efficiently Releasing the Trapped Energy Flow in White Organic Light-Emitting Diodes with Multifunctional Nanofunnel Arrays. <i>Advanced Functional Materials</i> , 2015, 25, 2660-2668.	14.9	47
24	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26017-26023.	8.0	44
25	Broadband Light Out-Coupling Enhancement of Flexible Organic Light-Emitting Diodes Using Biomimetic Quasirandom Nanostructures. <i>Advanced Optical Materials</i> , 2015, 3, 203-210.	7.3	43
26	Role of Surface Recombination in Halide Perovskite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31586-31593.	8.0	41
27	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5954-5961.	5.5	41
28	Degradation of Two-Dimensional $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite and $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{Graphene}$ Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24258-24265.	8.0	40
29	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals. <i>Nano Letters</i> , 2022, 22, 4260-4268.	9.1	40
30	Light Extraction of Trapped Optical Modes in Polymer Light-Emitting Diodes with Nanoimprinted Double-Pattern Gratings. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18139-18146.	8.0	38
31	Enhanced light harvesting in flexible polymer solar cells: synergistic simulation of a plasmonic meta-mirror and a transparent silver mesowire electrode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18952-18962.	10.3	37
32	Anisotropic polaritons in van der Waals materials. <i>InformaÅnÅ-MateriÅly</i> , 2020, 2, 777-790.	17.3	36
33	The role of charge generation layers in the operational stability of tandem organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1982.	5.5	34
34	Enhanced Performance of Semitransparent Inverted Organic Photovoltaic Devices via a High Reflector Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10185-10190.	8.0	32
35	Realizing both improved luminance and stability in organic light-emitting devices based on a solution-processed inter-layer composed of MoOX and Au nanoparticles mixture. <i>Organic Electronics</i> , 2014, 15, 961-967.	2.6	31
36	Illumination-Induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. <i>Advanced Optical Materials</i> , 2018, 6, 1801107.	7.3	30

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37	Flexible Polymer Photonic Films with Embedded Microvoids for High-Performance Passive Daytime Radiative Cooling. <i>ACS Photonics</i> , 2021, 8, 3301-3307.	6.6	30
38	The doping effect of cesium-based compounds on carrier transport and operational stability in organic light-emitting diodes. <i>Organic Electronics</i> , 2014, 15, 1215-1221.	2.6	29
39	Simultaneously Enhancing Color Spatial Uniformity and Operational Stability with Deterministic Quasi-Periodic Nanocone Arrays for Tandem Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015, 3, 87-94.	7.3	27
40	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. <i>Nano Letters</i> , 2020, 20, 7811-7818.	9.1	27
41	Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19397-19403.	8.0	26
42	Flat Lenses Based on 2D Perovskite Nanosheets. <i>Advanced Materials</i> , 2020, 32, e2001388.	21.0	26
43	Multifunctional Silver Nanoparticle Interlayer-Modified ZnO as the Electron-Injection Layer for Efficient Inverted Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9251-9258.	8.0	23
44	Highly efficient quantum-dot light emitting diodes with sol-gel ZnO electron contact. <i>Optical Materials Express</i> , 2017, 7, 2161.	3.0	21
45	Light beam shaping for collimated emission from white organic light-emitting diodes using customized lenticular microlens arrays structure. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	20
46	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26384-26390.	8.0	20
47	Balancing Charge Extraction for Efficient Back-Contact Perovskite Solar Cells by Using an Embedded Mesoscopic Architecture. <i>Advanced Energy Materials</i> , 2021, 11, 2100053.	19.5	19
48	Aqueous Electrochemical Activity of the Mg Surface: The Role of Group 14 and 15 Microalloying Elements. <i>Journal of the Electrochemical Society</i> , 2017, 164, C918-C929.	2.9	18
49	Transparent organic light-emitting diodes with balanced white emission by minimizing waveguide and surface plasmonic loss. <i>Optics Express</i> , 2017, 25, 15662.	3.4	18
50	Perovskite X-Ray Detectors: Flexible, Printable Soft X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots ( <i>Adv. Mater.</i> 30/2019). <i>Advanced Materials</i> , 2019, 31, 1970214.	21.0	18
51	Honeycomb-shaped charge collecting electrodes for dipole-assisted back-contact perovskite solar cells. <i>Nano Energy</i> , 2020, 67, 104223.	16.0	17
52	Tailored Polarization Conversion and Light-Energy Recycling for Highly Linearly Polarized White Organic Light-Emitting Diodes. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900341.	8.7	16
53	Efficient and Tunable Reflection of Phonon Polaritons at Built-In Intercalation Interfaces. <i>Advanced Materials</i> , 2021, 33, e2008070.	21.0	16
54	Polymer Solar Cells: Single-Junction Polymer Solar Cells Exceeding 10% Power Conversion Efficiency ( <i>Adv. Mater.</i> 6/2015). <i>Advanced Materials</i> , 2015, 27, 1132-1132.	21.0	15

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55	Light outcoupling enhanced flexible organic light-emitting diodes. <i>Optics Express</i> , 2016, 24, A674.	3.4	15
56	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020, 14, 1123-1132.	14.6	15
57	The role of cesium fluoride as an n-type dopant on electron transport layer in organic light-emitting diodes. <i>Organic Electronics</i> , 2013, 14, 839-844.	2.6	14
58	Tailoring Directive Gain for High-Contrast, Wide-Viewing-Angle Organic Light-Emitting Diodes Using Speckle Image Holography Metasurfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22402-22409.	8.0	14
59	Phase-Control of Single-Crystalline Inorganic Halide Perovskites via Molecular Coordination Engineering. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	14
60	High performance broadband photo and soft X-ray detectors based on two dimensional CrSiTe <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , 2020, 8, 6659-6666.	5.5	13
61	Tunable Broadband Wavefronts Shaping via Chaotic Speckle Image Holography Carrier Fringes. <i>Advanced Optical Materials</i> , 2017, 5, 1600810.	7.3	11
62	Interface energetics and engineering of organic heterostructures in organic photovoltaic cells. <i>Science China Chemistry</i> , 2016, 59, 422-435.	8.2	10
63	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie</i> , 2017, 129, 12660-12665.	2.0	10
64	Photoemission spectroscopy study on interfacial energy level alignments in tandem organic light-emitting diodes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 186-195.	1.7	9
65	Two novel blue phosphorescent host materials containing phenothiazine-5,5-dioxide structure derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 869-874.	2.2	9
66	Influence of direct deposition of dielectric materials on the optical response of monolayer WS <sub>2</sub> . <i>Applied Physics Letters</i> , 2021, 119, .	3.3	9
67	The electro-optic performance and photovoltaic effect of organic devices based on cesium carbonate/Al/molybdenum trioxide intermediate connector. <i>Organic Electronics</i> , 2017, 51, 452-457.	2.6	5
68	Carrier behavior in special multilayer device composed of different transition metal oxide-based intermediate connectors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	4
69	Laser speckle formed disordered micro-meander structures for light extraction enhancement of flexible organic light-emitting diodes. <i>Optics Express</i> , 2018, 26, 20420.	3.4	4
70	Probing the dynamic structural changes of DNA using ultrafast laser pulse in graphene-based optofluidic device. <i>Informa-Materially</i> , 2021, 3, 316-326.	17.3	4
71	Hot-electron emission-driven energy recycling in transparent plasmonic electrode for organic solar cells. <i>Informa-Materially</i> , 2022, 4, .	17.3	3
72	Speckle image holography modulated full-color organic light-emitting diodes with high efficiency and engineered emission profile. <i>Organic Electronics</i> , 2017, 42, 13-20.	2.6	2

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73	The effect of illumination and electrode adjustment on the carrier behavior in special multilayer devices. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 315101.	2.8	2
74	Built-in random inverted micro-cone arrays: Nanosecond laser-induced surface texturing for optical outcoupling enhanced flexible white organic light-emitting diodes. <i>Organic Electronics</i> , 2018, 61, 134-141.	2.6	2
75	Light-Emitting Diodes: Extremely Efficient White Organic Light-Emitting Diodes for General Lighting (Adv. Funct. Mater. 46/2014). <i>Advanced Functional Materials</i> , 2014, 24, 7392-7392.	14.9	1
76	Light manipulation for organic light-emitting diodes. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
77	Light Trapping: Light Manipulation in Organic Photovoltaics (Adv. Sci. 7/2016). <i>Advanced Science</i> , 2016, 3, .	11.2	1
78	Pixelated speckle image holography carrier fringes for efficient superimposed light harvesting in organic solar cells. <i>Applied Physics Letters</i> , 2017, 110, 253301.	3.3	1
79	Light Extraction: Efficiently Releasing the Trapped Energy Flow in White Organic Light-Emitting Diodes with Multifunctional Nanofunnel Arrays (Adv. Funct. Mater. 18/2015). <i>Advanced Functional Materials</i> , 2015, 25, 2784-2784.	14.9	0
80	Titelbild: Controlled Growth of Monocrystalline Organo-lead Halide Perovskite and Its Application in Photonic Devices (Angew. Chem. 41/2017). <i>Angewandte Chemie</i> , 2017, 129, 12547-12547.	2.0	0
81	Nonlinear Microscopy of Lead Iodide Nanosheets. , 2019, , .		0
82	Perovskite Lenses: Flat Lenses Based on 2D Perovskite Nanosheets (Adv. Mater. 30/2020). <i>Advanced Materials</i> , 2020, 32, 2070228.	21.0	0
83	Nonlinear Microscopy of Strain in Lead Iodide Nanosheets. , 2019, , .		0
84	Tuning the florescence color of gradient bandgap perovskite nanoplate by direct laser writing. , 2019, , .		0
85	Nonlinear microscopy of lead iodide nanosheets. , 2020, , .		0
86	Non-invasive Characterisation of Lead Iodide Nanosheets by Nonlinear Microscopy. , 2020, , .		0
87	Nonlinear microscopy of lead iodide nanosheets. <i>Optics Express</i> , 2022, 30, 4793.	3.4	0
88	Phase-Control of Single-Crystalline Inorganic Halide Perovskites via Molecular Coordination Engineering (Adv. Funct. Mater. 16/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0