

Xiwen Gong

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

7,325
citations

331259

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times ranked

9286
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Tandem Quantum-Dot LEDs Enabled by An Inorganic Semiconductor-Metal-Dielectric Interconnecting Layer Stack. <i>Advanced Materials</i> , 2022, 34, e2108150.	11.1	53
2	Efficient Tandem Quantum-Dot LEDs Enabled by An Inorganic Semiconductor-Metal-Dielectric Interconnecting Layer Stack (Adv. Mater. 4/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
3	Mechanical study of perovskite solar cells: opportunities and challenges for wearable power source. <i>Optical Materials Express</i> , 2022, 12, 772.	1.6	9
4	Halide Perovskites for Photonics and Optoelectronics: introduction to special issue. <i>Optical Materials Express</i> , 2022, 12, 1764.	1.6	0
5	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , 2021, 594, E8-E9.	13.7	2
6	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021, 600, 246-252.	13.7	138
7	A Multi-functional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. <i>Joule</i> , 2020, 4, 1977-1987.	11.7	111
8	Perovskite Single-Crystal Thin Film Devices Using Lithography Assisted Epitaxy. <i>Matter</i> , 2020, 3, 619-620.	5.0	7
9	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019, 131, 16223-16227.	1.6	16
10	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	7.2	49
11	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019, 10, 1591.	5.8	55
12	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807435.	11.1	143
13	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. <i>Nature Photonics</i> , 2018, 12, 159-164.	15.6	303
14	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. <i>Nature Communications</i> , 2018, 9, 1607.	5.8	309
15	Excitonic Creation of Highly Luminescent Defects In Situ in Working Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018, 6, 1700856.	3.6	6
16	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018, 562, 245-248.	13.7	2,589
17	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. <i>Nature Communications</i> , 2018, 9, 3541.	5.8	536
18	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , 2018, 17, 550-556.	13.3	472

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19	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	15.6	371
20	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , 2017, 8, 14757.	5.8	83
21	Nano Focus: IR vibrational crystallography visualizes molecular orientation on the nanoscale. <i>MRS Bulletin</i> , 2016, 41, 942.	1.7	0
22	Lattice dynamics and the nature of structural transitions in organolead halide perovskites. <i>Physical Review B</i> , 2016, 94, .	1.1	46
23	Amine-free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 8757-8763.	7.8	344
24	Nano Focus: He droplet method produces narrow distributed nanoparticles as stable catalyst. <i>MRS Bulletin</i> , 2016, 41, 841.	1.7	0
25	Crosslinked Remote-doped Hole-extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 2807-2815.	11.1	108
26	Highly efficient quantum dot near-infrared light-emitting diodes. <i>Nature Photonics</i> , 2016, 10, 253-257.	15.6	361
27	Quantum-dot-in-perovskite solids. <i>Nature</i> , 2015, 523, 324-328.	13.7	468
28	Efficient Luminescence from Perovskite Quantum Dot Solids. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25007-25013.	4.0	481
29	Colloidal Quantum Dot Photovoltaics Enhanced by Perovskite Shelling. <i>Nano Letters</i> , 2015, 15, 7539-7543.	4.5	173
30	A facile phase transformation method for the preparation of 3D flower-like $\text{Ni(OH)}_2/\text{GO}/\text{CNTs}$ composite with excellent supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12692-12696.	5.2	76
31	Microwave absorption enhancement, magnetic coupling and ab initio electronic structure of monodispersed $(\text{Mn}_{1-x}\text{Co}_x)_3\text{O}_4$ nanoparticles. <i>Nanoscale</i> , 2013, 5, 8022.	2.8	16