

Boyuan Huang

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

369
citations

932766

10
h-index

1058022

14
g-index

15
all docs

15
docs citations

15
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroic domains regulate photocurrent in single-crystalline CH ₃ NH ₃ PbI ₃ films self-grown on FTO/TiO ₂ substrate. Npj Quantum Materials, 2018, 3, .	1.8	76
2	Nanoscale Insights into Photovoltaic Hysteresis in Triple-Cation Mixed-Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. Advanced Materials, 2019, 31, e1902870.	11.1	73
3	An artificial intelligence atomic force microscope enabled by machine learning. Nanoscale, 2018, 10, 21320-21326.	2.8	61
4	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. Npj Quantum Materials, 2017, 2, .	1.8	43
5	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. National Science Review, 2019, 6, 55-63.	4.6	27
6	Polar or nonpolar? That is not the question for perovskite solar cells. National Science Review, 2021, 8, nwab094.	4.6	19
7	Resolving local dynamics of dual ions at the nanoscale in electrochemically active materials. Nano Energy, 2019, 66, 104160.	8.2	14
8	Resolving fine electromechanical structure of collagen fibrils via sequential excitation piezoresponse force microscopy. Nanotechnology, 2019, 30, 205703.	1.3	12
9	Spatially Resolved Electrochemical Strain of Solid-State Electrolytes via High Resolution Sequential Excitation and Its Implication on Grain Boundary Impedance. Small Methods, 2020, 4, 2000308.	4.6	12
10	High-throughput sequential excitation for nanoscale mapping of electrochemical strain in granular ceria. Nanoscale, 2019, 11, 23188-23196.	2.8	10
11	Competition between activation energy and migration entropy in lithium ion conduction in superionic NASICON-type Li _{1-x} Ga _x Zr ₂ (PO ₄) ₃ . Journal of Materials Chemistry A, 2021, 9, 7817-7825.	5.2	10
12	Spatiotemporally Correlated Imaging of Interfacial Defects and Photocurrents in High Efficiency Triple-Cation Mixed-Halide Perovskites. Small, 2022, 18, e2200523.	5.2	5
13	Decoupling competing electromechanical mechanisms in dynamic atomic force microscopy. Journal of the Mechanics and Physics of Solids, 2022, 159, 104758.	2.3	4
14	Ionic migration induced loss analysis of perovskite solar cells: a poling study. Physical Chemistry Chemical Physics, 2022, 24, 7805-7814.	1.3	3
15	Relaxation of competing electromechanical couplings in murine artery. Applied Physics Letters, 2020, 117, 143701.	1.5	0