

# 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	Decoupling competing electromechanical mechanisms in dynamic atomic force microscopy. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 159, 104758.	2.3	4
2	Ionic migration induced loss analysis of perovskite solar cells: a poling study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7805-7814.	1.3	3
3	Spatiotemporally Correlated Imaging of Interfacial Defects and Photocurrents in High Efficiency Triple-Cation Mixed-Halide Perovskites. <i>Small</i> , 2022, 18, e2200523.	5.2	5
4	Competition between activation energy and migration entropy in lithium ion conduction in superionic NASICON-type $\text{Li}_{1-x}\text{Ga}_x\text{Zr}_2(\text{PO}_4)_3$ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 7817-7825.	5.2	10
5	Polar or nonpolar? That is not the question for perovskite solar cells. <i>National Science Review</i> , 2021, 8, nwab094.	4.6	19
6	Relaxation of competing electromechanical couplings in murine artery. <i>Applied Physics Letters</i> , 2020, 117, 143701.	1.5	0
7	Spatially Resolved Electrochemical Strain of Solid-State Electrolytes via High Resolution Sequential Excitation and Its Implication on Grain Boundary Impedance. <i>Small Methods</i> , 2020, 4, 2000308.	4.6	12
8	Nanoscale Insights into Photovoltaic Hysteresis in Triple-Cation Mixed-Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. <i>Advanced Materials</i> , 2019, 31, e1902870.	11.1	73
9	Resolving local dynamics of dual ions at the nanoscale in electrochemically active materials. <i>Nano Energy</i> , 2019, 66, 104160.	8.2	14
10	Resolving fine electromechanical structure of collagen fibrils via sequential excitation piezoresponse force microscopy. <i>Nanotechnology</i> , 2019, 30, 205703.	1.3	12
11	High-throughput sequential excitation for nanoscale mapping of electrochemical strain in granular ceria. <i>Nanoscale</i> , 2019, 11, 23188-23196.	2.8	10
12	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. <i>National Science Review</i> , 2019, 6, 55-63.	4.6	27
13	An artificial intelligence atomic force microscope enabled by machine learning. <i>Nanoscale</i> , 2018, 10, 21320-21326.	2.8	61
14	Ferroc domains regulate photocurrent in single-crystalline $\text{CH}_3\text{NH}_3\text{PbI}_3$ films self-grown on FTO/ $\text{TiO}_2$ substrate. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	76
15	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	43