

David J Baek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

412
citations

8
h-index

20
g-index

20
ext. papers

519
ext. citations

4.7
avg, IF

3.37
L-index

#	Paper	IF	Citations
20	Synthesis of freestanding single-crystal perovskite films and heterostructures by etching of sacrificial water-soluble layers. <i>Nature Materials</i> , 2016 , 15, 1255-1260	27	237
19	Synthesis science of SrRuO ₃ and CaRuO ₃ epitaxial films with high residual resistivity ratios. <i>APL Materials</i> , 2018 , 6, 046101	5.7	41
18	Image registration of low signal-to-noise cryo-STEM data. <i>Ultramicroscopy</i> , 2018 , 191, 56-65	3.1	39
17	Demystifying the growth of superconducting Sr ₂ RuO ₄ thin films. <i>APL Materials</i> , 2018 , 6, 101108	5.7	23
16	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. <i>Microscopy and Microanalysis</i> , 2017 , 23, 366-367	0.5	14
15	Ultrathin Epitaxial Barrier Layer to Avoid Thermally Induced Phase Transformation in Oxide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 54-59	9.5	13
14	Strain Tuning in Complex Oxide Epitaxial Films Using an Ultrathin Strontium Aluminate Buffer Layer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700339	2.5	9
13	Mapping cation diffusion through lattice defects in epitaxial oxide thin films on the water-soluble buffer layer Sr ₃ Al ₂ O ₆ using atomic resolution electron microscopy. <i>APL Materials</i> , 2017 , 5, 096108	5.7	8
12	Direct Electron Detection for Atomic Resolution in situ EELS. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1844-1845	0.5	8
11	Insulator-to-Metal Transition at Oxide Interfaces Induced by WO Overlayers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42336-42343	9.5	5
10	Charge order textures induced by non-linear couplings in a half-doped manganite. <i>Nature Communications</i> , 2021 , 12, 3747	17.4	5
9	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. <i>Microscopy and Microanalysis</i> , 2018 , 24, 454-455	0.5	4
8	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. <i>Microscopy and Microanalysis</i> , 2017 , 23, 428-429	0.5	3
7	Synthesis of Freestanding Single-crystal Perovskite Films and Heterostructures by Etching of Sacrificial Water-soluble Layers		2
6	Low Temperature Electron Microscopy of Charge-Ordered Phases. <i>Microscopy and Microanalysis</i> , 2019 , 25, 934-935	0.5	1
5	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. <i>Microscopy and Microanalysis</i> , 2019 , 25, 582-583	0.5	
4	Strain Control at Two-Dimensional Oxide Interfaces Probed by Aberration-Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1137-1138	0.5	

- 3 Advances in Mapping Periodic Structural Modulations of Atomic Lattices. *Microscopy and Microanalysis*, **2016**, 22, 552-553 0.5
- 2 Impurity Segregation via Extended Defects in Oxide Thin Films Probed by Aberration-Corrected STEM-EELS. *Microscopy and Microanalysis*, **2016**, 22, 1518-1519 0.5
- 1 Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. *Microscopy and Microanalysis*, **2018**, 24, 80-81 0.5