Debangshu Mukherjee

List of Publications by Year
in descending order

24	509	1163117 8	940533 16
papers	citations	h-index	g-index

25	25	25	1324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective reduction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PdCoO</mml:mi><mml:mn>2</mml:mn></mml:msub> thin films via hydrogenation and sign tunable anomalous Hall effect. Physical Review Materials, 2021, 5, .	2.4	3
2	Building an edge computing infrastructure for rapid multi-dimensional electron microscopy. Microscopy and Microanalysis, 2021, 27, 56-57.	0.4	2
3	Quantifying the projected unit cell size variation of off-axis PtCo catalyst nanoparticles through 4D-STEM. Microscopy and Microanalysis, 2021, 27, 1440-1442.	0.4	0
4	Strong spin-dephasing in a topological insulator-paramagnet heterostructure. APL Materials, 2020, 8, .	5.1	4
5	Applying Configurational Complexity to the 2D Ruddlesdenâ€“Popper Crystal Structure. ACS Nano, 2020, 14, 13030-13037.	14.6	21
6	Oxygen Annealing Driven Structural Evolution in PdCoO2 Films Through Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 612-613.	0.4	0
7	Asymmetry and 4D-STEM: When the Phase Object Approximation Is Qualitatively Incorrect. Microscopy and Microanalysis, 2020, 26, 1910-1911.	0.4	1
8	STEMTooL: An Open Source Python Toolkit for Analyzing Electron Microscopy Datasets. Microscopy and Microanalysis, 2020, 26, 2960-2962.	0.4	4
9	Pt-Ligand single-atom catalysts: tuning activity by oxide support defect density. Catalysis Science and Technology, 2020, 10, 3353-3365.	4.1	28
10	Lattice Strain Measurement of Core@Shell Electrocatalysts with 4D Scanning Transmission Electron Microscopy Nanobeam Electron Diffraction. ACS Catalysis, 2020, 10, 5529-5541.	11.2	39
11	mpfit: a robust method for fitting atomic resolution images with multiple Gaussian peaks. Advanced Structural and Chemical Imaging, 2020, 6, .	4.0	18
12	High Resolution S/Transmission Electron Microscopy Investigation of Ca3Mn2O7 Phase Transformation under In-situ Heating Condition. Microscopy and Microanalysis, 2019, 25, 1876-1877.	0.4	0
13	Atomic-scale measurement of polar entropy. Physical Review B, 2019, 100, .	3.2	7
14	Investigation of Strain in Core@shell Electrocatalysts with ADF-STEM and 4D STEM Scanning Nanodiffraction. Microscopy and Microanalysis, 2019, 25, 1980-1981.	0.4	0
15	Growth of metallic delafossite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PdCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by molecular beam epitaxy. Physical Review Materials, 2019, 3, .	2.4	35
16	High Resolution S/TEM Imaging of High Density Domain Stacking and Coexisting Polar-nonpolar Phases in Layered Perovskite Ca3Mn2O7. Microscopy and Microanalysis, 2018, 24, 1916-1917.	0.4	0
17	4D-STEM Differential Phase Contrast Microscopy Across Ferroelectric Domain Walls. Microscopy and Microanalysis, 2018, 24, 228-229.	0.4	0
18	Polar Oxides without Inversion Symmetry through Vacancy and Chemical Order. Journal of the American Chemical Society, 2017, 139, 2833-2841.	13.7	34

#	Article	IF	Citations
19	Statistical Measurement of Polar Displacements in Complex Oxides. Microscopy and Microanalysis, 2017, 23, 1660-1661.	0.4	0
20	Aberration Corrected STEM Imaging of Domain Walls in Congruent LiNbO 3. Microscopy and Microanalysis, 2016, 22, 914-915.	0.4	5
21	26.5 Terahertz electrically triggered RF switch on epitaxial VO2-on-Sapphire (VOS) wafer. , 2015, , .		24
22	Freestanding van der Waals Heterostructures of Graphene and Transition Metal Dichalcogenides. ACS Nano, 2015, 9, 4882-4890.	14.6	157
23	Wafer-scale growth of VO2 thin films using a combinatorial approach. Nature Communications, 2015, 6, 8475.	12.8	117
24	Influence of foreign Fe ions on wet chemical synthesis of Pt nanoparticle thin films at ambient temperature: in situversus direct addition. Journal of Materials Chemistry, 2009, 19, 6810.	6.7	10