

Sujit Das

List of Publications by Year in descending order

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74
papers

3,541
citations

201575

27
h-index

133188

59
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79
all docs

79
docs citations

79
times ranked

5044
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field control of chirality. <i>Science Advances</i> , 2022, 8, eabj8030.	4.7	35
2	Tunable Nanoscale Evolution and Topological Phase Transitions of a Polar Vortex Supercrystal. <i>Advanced Materials</i> , 2022, 34, e2106401.	11.1	9
3	Order–Disorder Transitions in a Polar Vortex Lattice. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	9
4	Local manipulation and topological phase transitions of polar skyrmions. <i>Matter</i> , 2022, 5, 1031-1041.	5.0	12
5	The role of lattice dynamics in ferroelectric switching. <i>Nature Communications</i> , 2022, 13, 1110.	5.8	25
6	Chiral structures of electric polarization vectors quantified by X-ray resonant scattering. <i>Nature Communications</i> , 2022, 13, 1769.	5.8	6
7	Substrate orientation dependent characteristics of half-metallic and metallic superlattices [La _{0.7} Sr _{0.3} MnO ₃ /LaNiO ₃] ₁₀ . <i>Journal of Applied Physics</i> , 2022, 131, 125305.	1.1	2
8	Inherent Spin–Polarization Coupling in a Magnetoelectric Vortex. <i>Nano Letters</i> , 2022, 22, 3976-3982.	4.5	3
9	Erbium-implanted materials for quantum communication applications. <i>Physical Review B</i> , 2022, 105, .	1.1	24
10	Local negative permittivity and topological phase transition in polar skyrmions. <i>Nature Materials</i> , 2021, 20, 194-201.	13.3	86
11	Optical-Transparent Self-Assembled MXene Film with High-Efficiency Terahertz Reflection Modulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10574-10582.	4.0	13
12	Epitaxial Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ with Metallic Pyrochlore Oxide Electrodes. <i>Advanced Materials</i> , 2021, 33, e2006089.	11.1	26
13	Coherent electric field manipulation of Fe ³⁺ spins in PbTiO ₃ . <i>Science Advances</i> , 2021, 7, .	4.7	17
14	Correlating Surface Crystal Orientation and Gas Kinetics in Perovskite Oxide Electrodes. <i>Advanced Materials</i> , 2021, 33, e2100977.	11.1	17
15	Vortex Domain Walls in Ferroelectrics. <i>Nano Letters</i> , 2021, 21, 3533-3539.	4.5	34
16	Subterahertz collective dynamics of polar vortices. <i>Nature</i> , 2021, 592, 376-380.	13.7	66
17	Study of disorder in pulsed laser deposited double perovskite oxides by first-principle structure prediction. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	4
18	Probing the dynamics of ferroelectric topological oscillators with the electron beam. <i>Microscopy and Microanalysis</i> , 2021, 27, 690-692.	0.2	2

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19	Emergent chirality in a polar meron to skyrmion transition revealed by 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 348-350.	0.2	7
20	Strain-Induced Orbital Contributions to Oxygen Electrocatalysis in Transition-Metal Perovskites. <i>Advanced Energy Materials</i> , 2021, 11, 2102175.	10.2	9
21	Atomic scale crystal field mapping of polar vortices in oxide superlattices. <i>Nature Communications</i> , 2021, 12, 6273.	5.8	13
22	The role of epitaxial strain on the electronic and magnetic structure of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{LaCoO}_3$ bilayers. <i>AIP Advances</i> , 2021, 11, 125115.	0.6	0
23	Temperature-dependent growth of hexagonal and monoclinic gallium sulfide films by pulsed-laser deposition. <i>AIP Advances</i> , 2020, 10, 105215.	0.6	9
24	Mapping Topological Dipole Textures, Chirality, and the Potential Energy Landscape of Polar Skyrmions Using 4D-STEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 968-970.	0.2	1
25	Atomic Resolution Crystal Field Splitting Mapping in Polar Vortices Oxide Superlattices. <i>Microscopy and Microanalysis</i> , 2020, 26, 3178-3180.	0.2	1
26	A Phase Transition Oxide/Graphene Interface for Incident-Angle-Agile, Ultrabroadband, and Deep THz Modulation. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001297.	1.9	12
27	Elastic strain control of electronic structure, and magnetic properties of $[\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3/\text{SrTiO}_3]_{15}$ superlattices. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	6
28	Ultralow Voltage Manipulation of Ferromagnetism. <i>Advanced Materials</i> , 2020, 32, e2001943.	11.1	44
29	Switching Magnetic Anisotropy of SrRuO_3 by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Applied</i> , 2020, 13, .	1.5	14
30	Thickness-Dependent Ru Exchange Spring at $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3$ Interface. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900616.	0.7	1
31	A new era in ferroelectrics. <i>APL Materials</i> , 2020, 8, .	2.2	36
32	In situ Electric Field Manipulation of Ferroelectric Vortices. <i>Microscopy and Microanalysis</i> , 2019, 25, 1844-1845.	0.2	3
33	Versatile and Highly Efficient Controls of Reversible Topotactic Metal-Insulator Transitions through Proton Intercalation. <i>Advanced Functional Materials</i> , 2019, 29, 1907072.	7.8	28
34	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019, 10, 3951.	5.8	43
35	Observation of room-temperature polar skyrmions. <i>Nature</i> , 2019, 568, 368-372.	13.7	417
36	Optical creation of a supercrystal with three-dimensional nanoscale periodicity. <i>Nature Materials</i> , 2019, 18, 377-383.	13.3	105

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55	Observation of Transverse Spin-Dependent Azimuthal Correlations of Charged Pion Pairs in $\langle \cos(\phi_1 - \phi_2) \rangle \propto \langle \cos(\phi_1 - \phi_2 + \Delta\phi) \rangle$ Azimuthal Anisotropy in $\langle \cos(\phi_1 - \phi_2) \rangle \propto \langle \cos(\phi_1 - \phi_2 + \Delta\phi) \rangle$	2.9	25
56	Precision Measurement of the Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in Polarized Proton Collisions at $A_N^{\parallel} \propto \langle \cos(\phi_1 - \phi_2) \rangle$	2.9	85
57	Strain dependence of antiferromagnetic interface coupling in $J_{\text{int}} \propto \cos(\theta)$	2.9	70
58	Correlation Function in $C(\Delta\phi) \propto \langle \cos(\Delta\phi) \rangle$	2.9	80
59	Static and reversible elastic strain effects on magnetic order of La _{0.7} Ca _{0.3} MnO ₃ /SrTiO ₃ superlattices. Journal of Applied Physics, 2014, 115, 143902.	1.1	11
60	Observation of $D \propto \langle \cos(\phi) \rangle$	2.9	179
61	Beam-Energy Dependence of Charge Separation along the Magnetic Field in $A_N \propto \langle \cos(\phi) \rangle$	2.9	147
62	Energy Dependence of Moments of Net-Proton Multiplicity Distributions at RHIC. Physical Review Letters, 2014, 112, 032302.	2.9	365
63	Beam-Energy Dependence of the Directed Flow of Protons, Antiprotons, and Pions in Au+Au Collisions. Physical Review Letters, 2014, 112, 162301.	2.9	186
64	Beam Energy Dependence of Moments of the Net-Charge Multiplicity Distributions in $A_N \propto \langle \cos(\phi) \rangle$	2.9	245
65	Jet-Hadron Correlations in $C(\Delta\phi) \propto \langle \cos(\Delta\phi) \rangle$	2.9	48
66	Enhancement of switching speed of BiFeO ₃ capacitors by magnetic fields. APL Materials, 2014, 2, 096107.	2.2	4
67	Dielectron Mass Spectra from $D \propto \langle \cos(\phi) \rangle$	2.9	52
68	Measurement of Longitudinal Spin Asymmetries for Weak Boson Production in Polarized Proton-Proton Collisions at RHIC. Physical Review Letters, 2014, 113, 072301.	2.9	62
69	Tuning the switching time of BiFeO ₃ capacitors by electrodes' conductivity. Applied Physics Letters, 2013, 103, 022905.	1.5	13
70	Observation of an Energy-Dependent Difference in Elliptic Flow between Particles and Antiparticles in Relativistic Heavy Ion Collisions. Physical Review Letters, 2013, 110, 142301.	2.9	89
71	Microscopic analysis of Fe-Cr alloy produced by single roll strip casting. Materials Science and Technology, 2011, 27, 1461-1464.	0.8	0

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73	Effect of particle size and amount on corrosion behaviour of Al-4.5 wt-%Cu/zircon sand composite. Corrosion Engineering Science and Technology, 2010, 45, 94-96.	0.7	1
74	Deformation microstructures of Ti-52 at.% Al-3 at.% V alloy. Philosophical Magazine Letters, 1993, 67, 143-150.	0.5	4