Sujit Das

List of Publications by Year
in descending order

74 papers	3,541 citations	201575 27 h-index	133188 59 g-index
79 all docs	79 docs citations	79 times ranked	5044 citing authors

#	Article	IF	Citations
1	Observation of room-temperature polar skyrmions. Nature, 2019, 568, 368-372.	13.7	417
2	Energy Dependence of Moments of Net-Proton Multiplicity Distributions at RHIC. Physical Review Letters, 2014, 112, 032302.	2.9	365
3	Beam Energy Dependence of Moments of the Net-Charge Multiplicity Distributions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio[illegible] at RHIC. Physical Review Letters, 2014, 113, 092301.	2.9	245
4	Spatially resolved steady-state negative capacitance. Nature, 2019, 565, 468-471.	13.7	245
5	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
6	Observation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mm[illegible] Nuclear Modifications in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio[illegible] at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml. Physical Review Letters, 2014, [illegible].	2.9	179
7	Beam-Energy Dependence of Charge Separation along the Magnetic Field in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio[illegible] at RHIC. Physical Review Letters, 2014, 113, 052302.	2.9	147
8	Optical creation of a supercrystal with three-dimensional nanoscale periodicity. Nature Materials, 2019, 18, 377-383.	13.3	105
9	Observation of Charge Asymmetry Dependence of Pion Elliptic Flow and the Possible Chiral Magnetic Wave in Heavy-Ion Collisions. Physical Review Letters, 2015, 114, 252302.	2.9	93
10	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
11	Local negative permittivity and topological phase transition in polar skyrmions. Nature Materials, 2021, 20, 194-201.	13.3	86
12	Azimuthal Anisotropy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">U</mml:mi><mml:mo>+</mml:mo><mml:mi mathvariant="normal">U</mml:mi></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio[illegible]	2.9	85
13	[illegible] <mml:mi mathvariant="normal">Î</mml:mi></mml:math>Correlation Function in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio[illegible] at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mr[illegible]	2.9	80
14	Measurement of the Transverse Single-Spin Asymmetry in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>p</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">â†‘</mml:mo></mml:mrow></mml:msup><mml:mo>+</mml:mo><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mrow><mml:mi>W</mml:mi></mml:mrow><mml:mrow><mml:mo>Â±</mml:mo></[illegible] stretchy="false">/</mml:mo><mml:msup><mml:mrow><mml:mi>Z</mml:mi></mml:mrow><mml. Physica	2.9	73
15	Precision Measurement of the Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in Polarized Proton Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo>=</mml:mo><m[illegible] Physical Review Letters, 2015, 115, 092002.	2.9	70
16	Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380.	13.7	66
17	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
18	Centrality and Transverse Momentum Dependence of Elliptic Flow of Multistrange Hadrons and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï•</mml:mi></mml:math>Meson in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:math>Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:	2.9	58

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19	Dielectron Mass Spectra from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow>	2.9	52
20	Jet-Hadron Correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>p<. Physical Review Letters, 2014, 112, 122301.	2.9	48
21	Beam Energy Dependence of the Third Harmonic of Azimuthal Correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisio at RHIC. Physical Review Letters, 2016, 116, 112302.	2.9	47
22	Ultralow Voltage Manipulation of Ferromagnetism. Advanced Materials, 2020, 32, e2001943.	11.1	44
23	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	5.8	43
24	Complex strain evolution of polar and magnetic order in multiferroic BiFeO3 thin films. Nature Communications, 2018, 9, 3764.	5.8	40
25	A new era in ferroelectrics. APL Materials, 2020, 8, .	2.2	36
26	Electric field control of chirality. Science Advances, 2022, 8, eabj8030.	4.7	35
27	Vortex Domain Walls in Ferroelectrics. Nano Letters, 2021, 21, 3533-3539.	4.5	34
28	Strain dependence of antiferromagnetic interface coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.7</m Physical Review B, 2015, 91, .	1.1	28
29	Perspective: Emergent topologies in oxide superlattices. APL Materials, 2018, 6, 100901.	2.2	28
30	Versatile and Highly Efficient Controls of Reversible Topotactic Metalâ€"Insulator Transitions through Proton Intercalation. Advanced Functional Materials, 2019, 29, 1907072.	7.8	28
31	Epitaxial Ferroelectric Hf_{0.5}Zr_{0.5}O₂ with Metallic Pyrochlore Oxide Electrodes. Advanced Materials, 2021, 33, e2006089.	11.1	26
32	Observation of Transverse Spin-Dependent Azimuthal Correlations of Charged Pion Pairs in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>p</mml:mi><mml:mo stretchy="false">â†'</mml:mo></mml:msup><mml:mo>+</mml:mo><mml:mi>p</mml:mi></mml:math>at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo>=</mml:mo><mm	2.9	25
33	The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110.	5.8	25
34	Erbium-implanted materials for quantum communication applications. Physical Review B, 2022, 105, .	1.1	24
35	Dijet imbalance measurements in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Au</mml:mi><mml:mrow><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math> collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	2.9	20
36	Charge-Dependent Directed Flow in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Cu</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math> Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><m Physical Review Letters, 2017, 118, 012301.	2.9	19

#	Article	IF	Citations
37	Low-field switching of noncollinear spin texture at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:msu	1.1	18
38	Coherent electric field manipulation of Fe ³⁺ spins in PbTiO ₃. Science Advances, 2021, 7, .	4.7	17
39	Correlating Surface Crystal Orientation and Gas Kinetics in Perovskite Oxide Electrodes. Advanced Materials, 2021, 33, e2100977.	11.1	17
40	Low-temperature anomalous spin correlations and Kondo effect in ferromagnetic SrRuO3/LaNiO3/La0.7Sr0.3MnO3 trilayers. Physical Review B, 2019, 99, .	1.1	14
41	Switching Magnetic Anisotropy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Sr</mml:mi><mml:msub><mml:mrow><mml:mi>Ru</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> by Capping-Layer-Induced Octahedral Distortion. Physical Review Applied, 2020, 13, .	1.5	14
42	Tuning the switching time of BiFeO₃ capacitors by electrodes' conductivity. Applied Physics Letters, 2013, 103, 022905.	1.5	13
43	Optical-Transparent Self-Assembled MXene Film with High-Efficiency Terahertz Reflection Modulation. ACS Applied Materials & Interfaces, 2021, 13, 10574-10582.	4.0	13
44	Atomic scale crystal field mapping of polar vortices in oxide superlattices. Nature Communications, 2021, 12, 6273.	5.8	13
45	A Phase Transition Oxide/Graphene Interface for Incidentâ€Angleâ€Agile, Ultrabroadband, and Deep THz Modulation. Advanced Materials Interfaces, 2020, 7, 2001297.	1.9	12
46	Local manipulation and topological phase transitions of polar skyrmions. Matter, 2022, 5, 1031-1041.	5.0	12
47	Static and reversible elastic strain effects on magnetic order of La0.7Ca0.3MnO3/SrTiO3 superlattices. Journal of Applied Physics, 2014, 115, 143902.	1.1	11
48	Finite-size scaling and exchange-bias in SrRuO3/LaNiO3/SrRuO3 trilayers. Journal of Applied Physics, 2017, 122, .	1.1	11
49	Unexpected termination switching and polarity compensation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></m heterostructures. Physical Review Materials, 2018, 2, .	0.9	11
50	Structural and magnetic properties of La0.7Sr0.3MnO3/LaCoO3 heterostructures. Applied Physics Letters, 2018, 113, .	1.5	10
51	Temperature-dependent growth of hexagonal and monoclinic gallium sulfide films by pulsed-laser deposition. AIP Advances, 2020, 10, 105215.	0.6	9
52	Strainâ€Induced Orbital Contributions to Oxygen Electrocatalysis in Transitionâ€Metal Perovskites. Advanced Energy Materials, 2021, 11, 2102175.	10.2	9
53	Tunable Nanoscale Evolution and Topological Phase Transitions of a Polar Vortex Supercrystal. Advanced Materials, 2022, 34, e2106401.	11.1	9
54	Orderâ€"Disorder Transitions in a Polar Vortex Lattice. Advanced Functional Materials, 2022, 32, .	7.8	9

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55	Interfacial magnetism in La_{0.7}Sr_{0.3}MnO₃/LaNiO₃ ultrathin superlattices. Journal Physics D: Applied Physics, 2018, 51, 325001.	1.3	8
56	Emergent chirality in a polar meron to skyrmion transition revealed by 4D-STEM. Microscopy and Microanalysis, 2021, 27, 348-350.	0.2	7
57	Elastic strain control of electronic structure, and magnetic properties of [Pr1â^’<i>x</i>Ca<i>x</i>MnO3/SrTiO3]15 superlattices. Journal of Applied Physics, 2020, 127, .	1.1	6
58	Chiral structures of electric polarization vectors quantified by X-ray resonant scattering. Nature Communications, 2022, 13, 1769.	5.8	6
59	Carrier-driven coupling in ferromagnetic oxide heterostructures. Physical Review B, 2017, 96, .	1.1	5
60	Deformation microstructures of Ti-52 at.% Al-3 at.% V alloy. Philosophical Magazine Letters, 1993, 67, 143-150.	0.5	4
61	Enhancement of switching speed of BiFeO3 capacitors by magnetic fields. APL Materials, 2014, 2, 096107.	2.2	4
62	Low-temperature localization in the transport properties of self-doped La0.9Mn0.98Zn0.02O3. Bulletin of Materials Science, 2016, 39, 293-298.	0.8	4
63	Study of disorder in pulsed laser deposited double perovskite oxides by first-principle structure prediction. Npj Computational Materials, 2021, 7, .	3.5	4
64	<i>In situ</i> Electric Field Manipulation of Ferroelectric Vortices. Microscopy and Microanalysis, 2019, 25, 1844-1845.	0.2	3
65	Inherent Spinâ€“Polarization Coupling in a Magnetoelectric Vortex. Nano Letters, 2022, 22, 3976-3982.	4.5	3
66	Probing the dynamics of ferroelectric topological oscillators with the electron beam. Microscopy and Microanalysis, 2021, 27, 690-692.	0.2	2
67	Substrate orientation dependent characteristics of half-metallic and metallic superlattices [La_{0.7}Sr_{0.3}MnO₃/LaNiO₃]₁₀. Journal of Applied Physics, 2022, 131, 125305.	1.1	2
68	Effect of particle size and amount on corrosion behaviour of Alâ€“4Â·5 wt-%Cu/zircon sand composite. Corrosion Engineering Science and Technology, 2010, 45, 94-96.	0.7	1
69	Shear strain-induced anisotropic domain evolution in mixed-phase BiFeO3 epitaxial films. AIP Advances, 2019, 9, .	0.6	1
70	Mapping Topological Dipole Textures, Chirality, and the Potential Energy Landscape of Polar Skyrmions Using 4D-STEM. Microscopy and Microanalysis, 2020, 26, 968-970.	0.2	1
71	Atomic Resolution Crystal Field Splitting Mapping in Polar Vortices Oxide Superlattices. Microscopy and Microanalysis, 2020, 26, 3178-3180.	0.2	1
72	Thicknessâ€Dependent Ru Exchange Spring at La 0.7 Sr 0.3 MnO 3 â€“SrRuO 3 Interface. Physica Status Solidi (B): Basic Research, 2020, 257, 1900616.	0.7	1

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73	Microscopic analysis of Feâ€“Cr alloy produced by single roll strip casting. Materials Science and Technology, 2011, 27, 1461-1464.	0.8	0
74	The role of epitaxial strain on the electronic and magnetic structure of La_{0.7}Sr_{0.3}MnO₃/LaCoO₃ bilayers. AIP Advances, 2021, 11, 125115.	0.6	0