

Dhanvir Singh Rana

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Understanding the Nature of Ultrafast Polarization Dynamics of Ferroelectric Memory in the Multiferroic BiFeO_3 . <i>Advanced Materials</i> , 2009, 21, 2881-2885.	21.0	148
2	Positive exchange-bias and giant vertical hysteretic shift in $\text{La}_{0.3}\text{Sr}_{0.7}\text{FeO}_3/\text{SrRuO}_3$ bilayers. <i>Scientific Reports</i> , 2014, 4, 4138.	3.3	58
3	Magnetic and transport properties of $(\text{La}_{0.7-2x}\text{Eu}_x)(\text{Ca}_{0.3}\text{Sr}_x)\text{MnO}_3$: Effect of simultaneous size disorder and carrier density. <i>Journal of Applied Physics</i> , 2004, 95, 4934-4940.	2.5	41
4	Field-induced abrupt change in magnetization of the manganite compounds $(\text{LaR})_{0.45}(\text{CaSr})_{0.55}\text{MnO}_3$ (R=Eu and Tb). <i>Physical Review B</i> , 2006, 73, .	3.2	37
5	Ferromagnetic CaRuO_3 . <i>Scientific Reports</i> , 2014, 4, 3877.	3.3	37
6	Hardening of the ferroelectric soft mode in SrTiO_3 thin films. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	35
7	Terahertz Electrodynamics in Transition Metal Oxides. <i>Advanced Optical Materials</i> , 2020, 8, 1900958.	7.3	33
8	Effect of La doping on microstructure and critical current density of MgB_2 . <i>Superconductor Science and Technology</i> , 2005, 18, 1210-1214.	3.5	31
9	Terahertz Emission Functionality of High-Temperature Superconductors and Similar Complex Systems. <i>Advanced Optical Materials</i> , 2020, 8, 1900892.	7.3	31
10	Thickness dependent swift heavy ion irradiation effects on electronic transport of $(\text{La}_{0.5}\text{Pr}_{0.2})\text{Ba}_{0.3}\text{MnO}_3$ thin films. <i>Applied Physics Letters</i> , 2006, 88, 152503.	3.3	28
11	Ultra-sharp metamagnetic transitions in the half-doped manganite compound $\text{Eu}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$. <i>Europhysics Letters</i> , 2005, 70, 376-382.	2.0	23
12	Effects of disorder and scaling of optical conductivity in $\text{Nd}_{0.5}\text{Ca}_{0.5-x}\text{Ba}_x\text{MnO}_3$ ($x=0$ and 0.02) thin films as observed by terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2008, 93, 231908.	3.3	21
13	Tuning the terahertz low-energy charge dynamics by simultaneous effect of epitaxial and anisotropic strain in PrNiO_3 thin films. <i>Physical Review B</i> , 2017, 95, .		20
14	Swift-heavy-ion-irradiation-induced enhancement in electrical conductivity of chemical solution deposited $\text{La}_{0.7}\text{Ba}_{0.3}\text{MnO}_3$ thin films. <i>Applied Physics Letters</i> , 2006, 89, 202506.	3.3	19
15	Terahertz spectroscopic evidence of low-energy excitations in NdNiO_3 thin films. <i>Physical Review B</i> , 2018, 97, .	3.2	18
16	Unveiling the control of quenched disorder in rare earth nickelates. <i>Physical Review B</i> , 2017, 96, .	3.2	17
17	Disorder effects in $(\text{LaTb})_{0.5}(\text{CaSr})_{0.5}\text{MnO}_3$ compounds. <i>Journal of Applied Physics</i> , 2004, 95, 7097-7099.	2.5	16
18	Role of Fe substitution on the anomalous magnetocaloric and magnetoresistance behaviour in $\text{Tb}(\text{Ni}_{1-x}\text{Fe}_x)_2$ compounds. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 10775-10786.	1.8	16

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19	Charge density waves condensate as measure of charge order and disorder in $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x=0.50$). <i>Physical Review Letters</i> , 2011, 106, 077401.	8.3	16
20	Controlling magnetism of multiferroic $(\text{Bi}_{0.9}\text{La}_{0.1})_2\text{FeCrO}_6$ thin films by epitaxial and crystallographic orientation strain. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	16
21	Controlling the coexisting vertical magnetization shift and exchange bias in $\text{La}_{0.3}\text{Sr}_{0.7}\text{FeO}_3/\text{SrRuO}_3$ bilayers. <i>Applied Physics Letters</i> , 2014, 104, 092413.	3.3	16
22	Terahertz spectroscopic evidence of non-Fermi-liquid-like behavior in structurally modulated PrNi_3O_7 thin films. <i>Physical Review Materials</i> , 2018, 2, .		16
23	Unraveling the magnetic properties of $\text{BiFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ thin films. <i>APL Materials</i> , 2015, 3, 116107.	5.1	15
24	Digital- to Analog-Type Terahertz Modulation Controlled by Mosaicity of the Substrate Template in Rare-Earth Nickelate Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33109-33115.	8.0	14
25	Enhancement of electronic transport and magnetoresistance of Al_2O_3 -impregnated $(\text{La}_{0.5}\text{Pr}_{0.2})\text{Sr}_{0.3}\text{MnO}_3$ thin films. <i>Europhysics Letters</i> , 2007, 79, 17005.	2.0	13
26	Implications of phase-segregation on structure, terahertz emission and magnetization of $\text{Bi}(\text{Fe}_{1-x}\text{Mn}_x)\text{O}_2$. <i>Journal of Applied Physics</i> , 2010, 108, 074107.	2.0	13
27	Anisotropy-induced crossover from Drude conductivity to charge-density-wave excitations in a stripe-type charge-ordered manganite. <i>Physical Review B</i> , 2013, 87, .	3.2	13
28	Structural Investigations of La_{2125} Mixed Oxide Superconducting System. <i>Journal of Superconductivity and Novel Magnetism</i> , 2002, 15, 211-215.	0.5	11
29	Sharp step-like metamagnetic transition in the charge-ordered manganite compound $(\text{La}_{0.3}\text{Eu}_{0.2})(\text{Ca}_{0.3}\text{Sr}_{0.2})\text{MnO}_3$. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 989-994.	1.8	11
30	Nano-Engineering by Implanting Al_2O_3 Nano Particle as Sandwiched Scattering Centers in Between the $\text{La}_{0.5}\text{Pr}_{0.2}\text{Sr}_{0.3}\text{MnO}_3$ Thin Film Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5687-5691.	0.9	11
31	Extraordinary anisotropic magnetoresistance in CaMnO_3 . <i>Physical Review Letters</i> , 2004, 93, 077201.	1.1	11
32	Terahertz charge dynamics unveil fundamental transport anisotropy in charge-ordered PrNi_3O_7 . <i>Physical Review Letters</i> , 2018, 120, 177401.	3.2	10
33	Charge density wave excitations in stripe-type charge ordered $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ manganite. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	9
34	Charge-density wave condensate in charge-ordered manganites: impact of ferromagnetic order and spin-glass disorder. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 106004.	1.8	9
35	Competing effects of Mn-doping and strain on electrical transport of NdNiO_3 thin films. <i>Journal of Applied Physics</i> , 2013, 46, 415305.	2.8	9
36	Electronic control of interface ferromagnetic order and exchange-bias in $\text{La}_{0.5}\text{Pr}_{0.5}\text{MnO}_3/\text{SrTiO}_3$ antiferromagnetic epitaxial bilayers. <i>Nanoscale</i> , 2015, 7, 3292-3299.	5.6	8

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37	Metamagnetic steps in Eu-based manganite compounds. <i>Journal of Applied Physics</i> , 2005, 97, 10H710.	2.5	7
38	Cation disorder and epitaxial strain modulated Drude-Smith type terahertz conductivity and Hall-carrier switching in $\text{Ca}_{1-x}\text{Ce}_x\text{RuO}_3$ thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 025805.	1.8	7
39	Effect of structural and magnetic exchange coupling on the electronic transport of NdNiO_3 films intercalated with $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin layers. <i>Applied Physics Letters</i> , 2013, 103, 032403.	3.3	6
40	Epitaxial strain driven crossover from Drude to Drude-Smith terahertz conductivity dynamics in LaNiO_3 thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 445604.	1.8	5
41	Unusual terahertz spectral weight and conductivity dynamics of the insulator-metal transition in $\text{Pr}_{0.5}\text{Nd}_{0.5}\text{NiO}_3$ thin films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 505303.	2.8	5
42	Anisotropy in static and terahertz dynamic conductivities across in-plane axes of lanthanum nickel oxide thin films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 435302.	2.8	5
43	Ultrafast dynamical charge-lattice coupling in rare-earth nickelate thin films studied by time-resolved terahertz spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 225301.	2.8	5
44	Epitaxial strain modulated exchange-bias fields and vertical magnetization shift in unconventional paramagnetic-antiferromagnetic heterostructures. <i>Europhysics Letters</i> , 2015, 109, 38005.	2.0	4
45	Mass divergence type metal-insulator transition in charge transfer rare-earth nickelates. <i>Physical Review B</i> , 2019, 100, .	3.2	4
46	Fabrication and 3D Patterning of Bio-Composite Consisting of Carboxymethylated Cellulose Nanofibers and Cobalt Ferrite Nanoparticles. <i>ChemistrySelect</i> , 2019, 4, 4416-4421.	1.5	4
47	Transport and Magnetic Properties of Eu and Sr Doped Manganite Compound $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Hyperfine Interactions</i> , 2005, 160, 193-197.	0.5	3
48	Probing low energy dynamics in charge-ordered NdNiO_3 by terahertz time domain spectroscopy. <i>Vacuum</i> , 2018, 151, 73-75.	3.5	3
49	Surface Electronic States Induced High Terahertz Conductivity of Co_3O_4 Microhollow Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19189-19196.	8.0	3
50	Pinned and bound modes of charge density wave type collective excitation in SmNiO_3 as revealed by terahertz spectroscopy. <i>Physical Review B</i> , 2020, 102, .	3.1	3
51	Inverse relation of exchange-bias and coercivity in epitaxial bilayer of double ruthenate perovskites. <i>Materials Research Express</i> , 2018, 5, 036105.	1.6	2
52	Anomalous terahertz dielectric phase in charge-ordered $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_3$ thin film. <i>Journal of Applied Physics</i> , 2019, 125, 151617.	2.5	2
53	Emergence of quenched disorder as a dominant control for complex phase diagram of rare-earth nickelates. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 415401.	1.8	2
54	Coherent acoustic modulation and defect-sensitive ultrafast carrier dynamics of $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films investigated by time-resolved terahertz spectroscopy. <i>Journal of Applied Physics</i> , 2022, 131, 233103.	2.5	2

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55	Giant ferromagnetism and exchange bias in tensile strained and Cr modified CaRuO ₃ thin films. Applied Physics Letters, 2014, 104, 122411.	3.3	1
56	Terahertz spectroscopic evidence of electron correlations in SrVO ₃ epitaxial thin films. Journal of Physics Condensed Matter, 2021, 33, 425602.	1.8	1
57	Imaging of current crowding effect across the metal to insulator transition in a NdNiO_3 thin film with thickness gradient. Physical Review B, 2022, 105, .	3.2	1
58	Structural and transport properties of pulsed laser deposited SrIr _{0.5} Rh _{0.5} O ₃ thin films. AIP Conference Proceedings, 2019, , .	0.4	0
59	Disorder and epitaxial strain control of metamagnetic transition, large saturation magnetization, and magneto-terahertz properties of YMn _{0.5} Cr _{0.5} O ₃ polycrystals and thin films. Journal of Applied Physics, 2021, 129, 153902.	2.5	0