

P Kumar Thakur

List of Publications by Year in descending order

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96
papers

2,425
citations

236925

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223800

46
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96
all docs

96
docs citations

96
times ranked

4074
citing authors

#	ARTICLE	IF	CITATIONS
1	Adatoms and Clusters of d Transition Metals on Graphene: Electronic and Magnetic Configurations. Physical Review Letters, 2013, 110, 136804.	7.8	159
2	Spin and orbital Ti magnetism at LaMnO ₃ /SrTiO ₃ interfaces. Nature Communications, 2010, 1, 82.	12.8	156
3	Coupling Single Molecule Magnets to Ferromagnetic Substrates. Physical Review Letters, 2011, 107, 177205.	7.8	153
4	Direct observation of a highly spin-polarized organic spinterface at room temperature. Scientific Reports, 2013, 3, 1272.	3.3	118
5	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. Advanced Functional Materials, 2017, 27, 1605413.	14.9	115
6	Intrinsic ferromagnetism and magnetic anisotropy in Gd-doped ZnO thin films synthesized by pulsed spray pyrolysis method. Journal of Applied Physics, 2010, 108, .	2.5	106
7	Electronic and Magnetic Reconstructions in $La_{0.7}Sr_{0.3}MnO_3$ A Case of Enhanced Interlayer Coupling Controlled by the Interface. Physical Review Letters, 2011, 106, 147205.	7.8	83
8	Isotype Heterojunction Solar Cells Using n-Type Sb ₂ Se ₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	6.7	83
9	Structural, electronic, and magnetic properties of Co doped SnO ₂ nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	66
10	Evolution of magnetic phases and orbital occupation in d		

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19	Influence of Polymorphism on the Electronic Structure of Ga ₂ O ₃ . Chemistry of Materials, 2020, 32, 8460-8470.	6.7	35
20	Irradiation induced ferromagnetism at room temperature in TiO ₂ thin films: X-ray magnetic circular dichroism characterizations. Applied Physics Letters, 2011, 98, .	3.3	33
21	Hole Extraction by Design in Photocatalytic Architectures Interfacing CdSe Quantum Dots with Topochemically Stabilized Tin Vanadium Oxide. Journal of the American Chemical Society, 2018, 140, 17163-17174.	13.7	33
22	Swift heavy ion irradiation induced magnetism in magnetically frustrated BiMn_2O_7 films. Physical Review B, 2010, 82, .		
23	BiMn_2O_7		

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37	Metal-organic interface functionalization via acceptor end groups: PTCDI on coinage metals. <i>Physical Review Materials</i> , 2017, 1, .	2.4	18
38	On the optical properties of Ag ⁺ ion-beam-irradiated TiO ₂ and SnO ₂ thin films. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1609-1614.	0.7	17
39	Restoring the Co Magnetic Moments at Interfacial Co-Porphyrin Arrays by Site-Selective Uptake of Iron. <i>ACS Nano</i> , 2015, 9, 3605-3616.	14.6	17
40	Irradiation induced modification in transport properties of LaNiO ₃ thin films: An x-ray absorption study. <i>Applied Physics Letters</i> , 2012, 101, 112103.	3.3	16
41	Spectroscopic study of Zn ^{1-x} CoxO thin films showing intrinsic ferromagnetism. <i>Materials Chemistry and Physics</i> , 2013, 140, 130-134.	4.0	16
42	Modifications in magnetic properties of BiMn ₂ O ₅ multiferroic using swift heavy ion irradiation. <i>Journal of Applied Physics</i> , 2010, 107, 09D903.	2.5	15
43	Comparing XMCD and DFT with STM spin excitation spectroscopy for Fe and Co adatoms on Cu _N . <i>Physical Review B</i> , 2015, 92, .	3.5	15
44	Nitrogen substitution impacts organic-metal interface energetics. <i>Physical Review B</i> , 2016, 94, .	3.2	15
45	Quantitative determination of a model organic/insulator/metal interface structure. <i>Nanoscale</i> , 2018, 10, 21971-21977.	5.6	15
46	Ge 4s ² lone pairs and band alignments in GeS and GeSe for photovoltaics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22440-22452.	10.3	15
47	Band alignment of Sb ₂ O ₃ and Sb ₂ Se ₃ . <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	15
48	Spatial variation of geometry, binding, and electronic properties in the moiré superstructure of MoS ₂ on Au(111). <i>2D Materials</i> , 2022, 9, 025003.	4.4	15
49	Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 5452-5461.	3.1	14
50	Exchange bias in GeMn nanocolumns: The role of surface oxidation. <i>Applied Physics Letters</i> , 2010, 97, 062501.	3.3	13
51	The Structure of VOPc on Cu(111): Does V•O Point Up, or Down, or Both?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8101-8111.	3.1	13
52	Ion beam synthesis of Ni nanoparticles embedded in quartz. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, L36.	1.3	12
53	Orbital anisotropy in SnO ₂ thin films and its modification by swift heavy ion irradiation. <i>Chemical Physics Letters</i> , 2011, 511, 322-325.	2.6	12
54	Electronic Structure Studies of Nanoferrite Cu ₂ Co ²⁺ Fe ₂ O ₄ by X-ray Absorption Spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 386-390.	0.9	12

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55	Magnetoelectric behavior of ferrimagnetic $\text{Bi}_x\text{Co}_2\hat{\wedge}^{\wedge}x\text{MnO}_4$ ($x=0, 0.1$ and 0.3) thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 1760-1765.	2.3	11
56	Water Splitting on Ti-Oxide-Terminated SrTiO_3 (001). Journal of Physical Chemistry C, 2019, 123, 17232-17238.	3.1	11
57	Sn 5s ² lone pairs and the electronic structure of tin sulphides: A photoreflectance, high-energy photoemission, and theoretical investigation. Physical Review Materials, 2020, 4, .	2.4	11
58	Gently does it!: <i>in situ</i> preparation of alkali metal–solid electrolyte interfaces for photoelectron spectroscopy. Faraday Discussions, 2022, 236, 267-287.	3.2	11
59	Electronic structure studies of $\text{Mg}_{0.95}\text{Mn}_{0.05}\text{Fe}_2\hat{\wedge}^{\wedge}2x\text{Ti}_2x\text{O}_4$ ($0\hat{\wedge}^{\wedge}1/2x\hat{\wedge}^{\wedge}1/20.8$). Journal of Magnetism and Magnetic Materials, 2008, 320, e121-e124.	2.3	10
60	Experimental and theoretical investigation of the chemical exfoliation of Cr-based MAX phase particles. Dalton Transactions, 2020, 49, 12215-12221.	3.3	10
61	Magnetic properties of planar arrays of <i>Fe</i> -nanowires grown on oxidized vicinal silicon (111) templates. Journal of Applied Physics, 2011, 109, 07B106.	2.5	9
62	Ni 3d – O 2p hybridization dependent magnetic properties of LaNiO_3 thin films. Thin Solid Films, 2016, 619, 144-147.	1.8	9
63	Thermal and oxidation stability of Ti/W diffusion barriers investigated by soft and hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2021, 129, .	2.5	9
64	Electron Doping by Charge Transfer at $\text{LaFeO}_3/\text{Sm}_2\text{CuO}_4$ Epitaxial Interfaces. Advanced Materials, 2013, 25, 1468-1473.	21.0	8
65	Interfacial interactions between CoTPP molecules and $\text{MgO}(100)$ thin films. Physical Chemistry Chemical Physics, 2017, 19, 11549-11553.	2.8	8
66	Heteromolecular Bilayers on a Weakly Interacting Substrate: Physisorptive Bonding and Molecular Distortions of Copper–Hexadecafluorophthalocyanine. ACS Applied Materials & Interfaces, 2020, 12, 14542-14551.	8.0	8
67	Lifetime effects and satellites in the photoelectron spectrum of tungsten metal. Physical Review B, 2022, 105, .	3.2	8
68	BaVS_3 probed by V L edge x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 045503.	1.8	7
69	Effects of nitridation on SiC/SiO_2 structures studied by hard X-ray photoelectron spectroscopy. JPhys Energy, 2020, 2, 035001.	5.3	7
70	Measurement of the Electric Quadrupole Moment of the $9/2\hat{\wedge}^{\wedge}$ and $21/2\hat{\wedge}^{\wedge}$ Isomers in ^{173}Ta . Hyperfine Interactions, 2000, 131, 103-109.	0.5	6
71	Nuclear g-Factor Measurement of the $9/2\hat{\wedge}^{\wedge}$ Isomeric State in ^{171}Ta . Hyperfine Interactions, 2001, 136/137, 201-204.	0.5	6
72	X-ray absorption and magnetic circular dichroism characterization of $\text{Mo}_{1-x}\text{Fe}_x\text{O}_2$ ($x = 0\hat{\wedge}^{\wedge}0.05$) thin films grown by pulsed laser ablation. Hyperfine Interactions, 2010, 197, 95-100.	0.5	6

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73	Evolution of magnetic nanophases of Ni embedded in Al ₂ O ₃ (001) matrix by X-ray magnetic circular dichroism. Chemical Physics Letters, 2011, 501, 404-408.	2.6	6
74	X-ray standing waves reveal lack of OH termination at hydroxylated ZnO(0001) surfaces. Physical Review Materials, 2020, 4, .	2.4	6
75	Structure of monolayer TaS_2 on Au(111). Physical Review B, 2021, 104, .	3.2	6
76	GeSe photovoltaics: doping, interfacial layer and devices. Faraday Discussions, 0, 239, 250-262.	3.2	6
77	Nuclear quadrupole moments of 5/2- and 9/2- states in ¹⁶⁹ Ta. European Physical Journal A, 2005, 26, 311-314.	2.5	4
78	Conversion of ¹⁶⁰ Gd ₂ O ₃ to ¹⁶⁰ Gd by vacuum reduction-distillation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 401-403.	1.6	4
79	Electronic Structure Studies of 200 MeV Ag ^[sup +15] Swift Heavy Ion Irradiated SnO ₂ Thin Films Using X-Ray Absorption Spectroscopy. , 2011, , .		4
80	Observation of out-of-plane unidirectional anisotropy in MgO-capped planar nanowire arrays of Fe. Journal of Applied Physics, 2013, 114, 133903.	2.5	4
81	Hard x-ray photoemission spectroscopy of LaVO ₃ /SrTiO ₃ : Band alignment and electronic reconstruction. Physical Review B, 2021, 103, .	3.2	4
82	Preparation and preservation of praseodymium targets at IUAC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 404-406.	1.6	3
83	Electronic charge transfer in cobalt doped fullerene thin films and effect of energetic ion impacts by x-ray absorption spectroscopy. Thin Solid Films, 2011, 519, 8401-8405.	1.8	3
84	Thin film structural analysis using variable-period x-ray standing waves. Physical Review B, 2018, 98, .	3.2	3
85	Evidence of ZnCO ₃ interstitial phase in carbon implanted ZnO(002) thin films and room temperature ferromagnetism. Vacuum, 2021, 184, 109897.	3.5	3
86	Evaluation of the thermal stability of TiW/Cu heterojunctions using a combined SXPS and HAXPES approach. Journal of Applied Physics, 2022, 131, .	2.5	3
87	X-ray magnetic circular dichroism studies of Fe doped fullerene and highly oriented pyrolytic graphite. Applied Physics Letters, 2009, 95, 182511.	3.3	2
88	Corrugated graphene exposes the limits of a widely used ab initio van der Waals DFT functional. Physical Review Materials, 2019, 3, .	2.4	2
89	Electric quadrupole moments of the $K\tilde{\Gamma}_6 = 8\hat{a}^{\sim}$ and $23/2\hat{a}^{\sim}$ isomeric states in ¹⁷⁰ , ¹⁷¹ , ¹⁷² Hf. Hyperfine Interactions, 2007, 175, 121-129.	0.5	1
90	Structural and Magnetic Characterizations of 200 MeV Ag ^[sup +15] Irradiated Bi _x Co _{2-x} MnO ₄ Thin Films. Key Engineering Materials, 2013, 547, 71-77.	0.4	1

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91	Direct observation of a highly spin-polarized organic spinterface at room temperature. , 2014, , .		1
92	Magnetization Reversal Behaviour of Planar Nanowire Arrays of Fe. Current Nanoscience, 2013, 9, 609-614.	1.2	1
93	Nontrivial topological valence bands of common diamond and zinc-blende semiconductors. Physical Review Materials, 2019, 3, .	2.4	1
94	Quadrupole Interaction of ⁹⁹ Ru in Pr, Nd and ¹⁰⁰ Rh in Tb Hosts. Hyperfine Interactions, 2001, 136/137, 485-490.	0.5	0
95	Hyperfine Interactions of Pm in Nd and Gd Hosts. Hyperfine Interactions, 2001, 136/137, 497-502.	0.5	0
96	X-ray Absorption Study of Epitaxial LaNiO ₃ Thin Films. , 2011, , .		0