P Kumar Thakur

List of Publications by Year in descending order

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96 papers	2,425 citations	236925 25 h-index	223800 46 g-index
96 all docs	96 docs citations	96 times ranked	4074 citing authors

#	Article	IF	Citations
1	Spatial variation of geometry, binding, and electronic properties in the moirÃ© superstructure of MoS₂ on Au(111). 2D Materials, 2022, 9, 025003.	4.4	15
2	Lifetime effects and satellites in the photoelectron spectrum of tungsten metal. Physical Review B, 2022, 105, .	3.2	8
3	Gently does it!: in situ preparation of alkali metalâ€“solid electrolyte interfaces for photoelectron spectroscopy. Faraday Discussions, 2022, 236, 267-287.	3.2	11
4	Cycle-Induced Interfacial Degradation and Transition-Metal Cross-Over in LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂â€“Graphite Cells. Chemistry of Materials, 2022, 34, 2034-2048.	6.7	28
5	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
6	Evidence of ZnCO3 interstitial phase in carbon implanted ZnO(002) thin films and room temperature ferromagnetism. Vacuum, 2021, 184, 109897.	3.5	3
7	Ge 4s² lone pairs and band alignments in GeS and GeSe for photovoltaics. Journal of Materials Chemistry A, 2021, 9, 22440-22452.	10.3	15
8	Thermal and oxidation stability of TixW1â^’x diffusion barriers investigated by soft and hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2021, 129, .	2.5	9
9	Band alignment of Sb2O3 and Sb2Se3. Journal of Applied Physics, 2021, 129, .	2.5	15
10	Hard x-ray photoemission spectroscopy of LaVO3/SrTiO3 : Band alignment and electronic reconstruction. Physical Review B, 2021, 103, .	3.2	4
11	Design and realization of topological Dirac fermions on a triangular lattice. Nature Communications, 2021, 12, 5396.	12.8	19
12	Structure of monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow><mml:m mathvariant="normal">TaS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> on Au(111). Physical Review B, 2021, 104, .	3.2	6
13	Experimental and theoretical investigation of the chemical exfoliation of Cr-based MAX phase particles. Dalton Transactions, 2020, 49, 12215-12221.	3.3	10
14	Influence of Polymorphism on the Electronic Structure of Ga₂O₃. Chemistry of Materials, 2020, 32, 8460-8470.	6.7	35
15	Sb 5s² lone pairs and band alignment of Sb₂Se₃: a photoemission and density functional theory study. Journal of Materials Chemistry C, 2020, 8, 12615-12622.	5.5	19
16	Natural Band Alignments and Band Offsets of Sb₂Se₃ Solar Cells. ACS Applied Energy Materials, 2020, 3, 11617-11626.	5.1	40
17	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. Science Advances, 2020, 6, eaaz0611.	10.3	24
18	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO₂. Chemistry of Materials, 2020, 32, 1964-1973.	6.7	50

#	Article	IF	Citations
19	Isotype Heterojunction Solar Cells Using n-Type Sb₂Se₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	6.7	83
20	Heteromolecular Bilayers on a Weakly Interacting Substrate: Physisorptive Bonding and Molecular Distortions of Copperâ€“Hexadecafluorophthalocyanine. ACS Applied Materials & Interfaces, 2020, 12, 14542-14551.	8.0	8
21	Effects of nitridation on SiC/SiO₂ structures studied by hard X-ray photoelectron spectroscopy. JPhys Energy, 2020, 2, 035001.	5.3	7
22	X-ray standing waves reveal lack of OH termination at hydroxylated ZnO(0001) surfaces. Physical Review Materials, 2020, 4, .	2.4	6
23	Sn 5s2 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
24	Water Splitting on Ti-Oxide-Terminated SrTiO₃(001). Journal of Physical Chemistry C, 2019, 123, 17232-17238.	3.1	11
25	The Structure of VOPc on Cu(111): Does Vâ•O Point Up, or Down, or Both?. Journal of Physical Chemistry C, 2019, 123, 8101-8111.	3.1	13
26	Nontrivial topological valence bands of common diamond and zinc-blende semiconductors. Physical Review Materials, 2019, 3, .	2.4	1
27	Corrugated graphene exposes the limits of a widely used ab initio van der Waals DFT functional. Physical Review Materials, 2019, 3, .	2.4	2
28	Bilayer Formation vs Molecular Exchange in Organic Heterostructures: Strong Impact of Subtle Changes in Molecular Structure. Journal of Physical Chemistry C, 2018, 122, 9480-9490.	3.1	27
29	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. Nanoscale, 2018, 10, 2226-2230.	5.6	21
30	Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). Journal of Physical Chemistry C, 2018, 122, 5452-5461.	3.1	14
31	Quantitative determination of a model organic/insulator/metal interface structure. Nanoscale, 2018, 10, 21971-21977.	5.6	15
32	Thin film structural analysis using variable-period x-ray standing waves. Physical Review B, 2018, 98, .	3.2	3
33	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
34	Direct measurement of Ni incorporation into Fe₃O₄(001). Physical Chemistry Chemical Physics, 2018, 20, 16469-16476.	2.8	20
35	Adsorption Structure of Cobalt Tetraphenylporphyrin on Ag(100). Journal of Physical Chemistry C, 2017, 121, 5667-5674.	3.1	18
36	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO₃/TiO₂ Heterojunction Films: A Computational and Experimental Study. Advanced Functional Materials, 2017, 27, 1605413.	14.9	115

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37	Interfacial interactions between CoTPP molecules and MgO(100) thin films. Physical Chemistry Chemical Physics, 2017, 19, 11549-11553.	2.8	8
38	Corrugation in the Weakly Interacting Hexagonal-BN/Cu(111) System: Structure Determination by Combining Noncontact Atomic Force Microscopy and X-ray Standing Waves. ACS Nano, 2017, 11, 9151-9161.	14.6	56
39	Metal-organic interface functionalization via acceptor end groups: PTCDI on coinage metals. Physical Review Materials, 2017, 1, .	2.4	18
40	Nitrogen substitution impacts organic-metal interface energetics. Physical Review B, 2016, 94, .	3.2	15
41	Direct quantitative identification of the â€œsurface trans-effectâ€• Chemical Science, 2016, 7, 5647-5656.	7.4	51
42	Ni 3d â€“ O 2p hybridization dependent magnetic properties of LaNiO3 thin films. Thin Solid Films, 2016, 619, 144-147.	1.8	9
43	Comparing XMCD and DFT with STM spin excitation spectroscopy for Fe and Co adatoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">N</mml:mi><mml:mo>/</mml:mo><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mo>(</mml:mo> Physical Review B, 2015, 92, .	3.2	15
44	Restoring the Co Magnetic Moments at Interfacial Co-Porphyrin Arrays by Site-Selective Uptake of Iron. ACS Nano, 2015, 9, 3605-3616.	14.6	17
45	Direct observation of a highly spin-polarized organic spinterface at room temperature. , 2014, , .		1
46	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. Surface Science, 2014, 630, 361-374.	1.9	49
47	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
48	Direct observation of a highly spin-polarized organic spinterface at room temperature. Scientific Reports, 2013, 3, 1272.	3.3	118
49	Electron Doping by Charge Transfer at LaFeO₃/Sm₂CuO₄ Epitaxial Interfaces. Advanced Materials, 2013, 25, 1468-1473.	21.0	8
50	Adatoms and Clusters of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math>Transition Metals on Graphene: Electronic and Magnetic Configurations. Physical Review Letters, 2013, 110, 136804.	7.8	159
51	Spectroscopic study of Zn1â^'xCoxO thin films showing intrinsic ferromagnetism. Materials Chemistry and Physics, 2013, 140, 130-134.	4.0	16
52	Structural and Magnetic Characterizations of 200 MeV Ag¹⁵⁺ Irradiated Bi_xCo_{2-x}MnO₄ Thin Films. Key Engineering Materials, 2013, 547, 71-77.	0.4	1
53	Magnetization Reversal Behaviour of Planar Nanowire Arrays of Fe. Current Nanoscience, 2013, 9, 609-614.	1.2	1
54	BaVS₃probed by V L edge x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 045503.	1.8	7

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55	Irradiation induced modification in transport properties of LaNiO₃ thin films: An x-ray absorption study. Applied Physics Letters, 2012, 101, 112103.	3.3	16
56	Electronic band redistribution probed by oxygen absorption spectra of (SrMnO<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 727 Tc xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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73	Conversion of 160Gd2O3 to 160Gd 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
74	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
75	Room temperature ferromagnetism in Fe-doped CeO2 thin films grown on LaAlO3 (001). Thin Solid Films, 2010, 519, 410-413.	1.8	36
76	Swift heavy ion irradiation induced magnetism in magnetically frustrated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiMn</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m films. Physical Review B, 2010, 82, .	3.2	29
77	Magnetic anisotropy of Fe and Co adatoms and Fe clusters magnetically decoupled from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:ms an alumina bilayer. Physical Review B, 2010, 81, .	3.2	19
78	Enhancement of ferromagnetism in Pd nanoparticle by swift heavy ion irradiation. Applied Physics Letters, 2010, 96, 053103.	3.3	28
79	Modifications in magnetic properties of BiMn2O5 multiferroic using swift heavy ion irradiation. Journal of Applied Physics, 2010, 107, 09D903.	2.5	15
80	Exchange bias in GeMn nanocolumns: The role of surface oxidation. Applied Physics Letters, 2010, 97, 062501.	3.3	13
81	Structural, electronic, and magnetic properties of Co doped SnO2 nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	66
82	Spin and orbital Ti magnetism at LaMnO3/SrTiO3 interfaces. Nature Communications, 2010, 1, 82.	12.8	156
83	Electronic structure of Cu-doped ZnO thin films by x-ray absorption, magnetic circular dichroism, and resonant inelastic x-ray scattering. Journal of Applied Physics, 2010, 107, .	2.5	58
84	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
85	Evolution of magnetic phases and orbital occupation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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91	Nuclear quadrupole moments of 5/2- and 9/2- states in 169Ta. European Physical Journal A, 2005, 26, 311-314.	2.5	4
92	Quadrupole Interaction of 99Ru in Pr, Nd and 100Rh in Tb Hosts. Hyperfine Interactions, 2001, 136/137, 485-490.	0.5	0
93	Hyperfine Interactions of Pm in Nd and Gd Hosts. Hyperfine Interactions, 2001, 136/137, 497-502.	0.5	0
94	Nuclear g-Factor Measurement of the 9/2â^' Isomeric State in 171Ta. Hyperfine Interactions, 2001, 136/137, 201-204.	0.5	6
95	Measurement of the Electric Quadrupole Moment of the 9/2â^' and 21/2â^' Isomers in 173Ta. Hyperfine Interactions, 2000, 131, 103-109.	0.5	6
96	GeSe photovoltaics: doping, interfacial layer and devices. Faraday Discussions, 0, 239, 250-262.	3.2	6