Mukul Gupta

List of Publications by Year
in descending order

295 papers	3,102 citations	172457 29 h-index	302126 39 g-index
297 all docs	297 docs citations	297 times ranked	2871 citing authors

#	Article	IF	Citations
1	Nanostructured tungsten oxide thin films by the reactive pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 2008, 91, 637-649.	2.3	67
2	Development of soft X-ray polarized light beamline on Indus-2 synchrotron radiation source. AIP Conference Proceedings, 2014, , .	0.4	64
3	Graphene Quantum Dot Solid Sheets: Strong blue-light-emitting & photocurrent-producing band-gap-opened nanostructures. Scientific Reports, 2017, 7, 10850.	3.3	61
4	Nanocrystallization and amorphization induced by reactive nitrogen sputtering in iron and permalloy. Physical Review B, 2005, 72, .	3.2	60
5	Influence of <i>in-situ</i> annealing ambient on p-type conduction in dual ion beam sputtered Sb-doped ZnO thin films. Applied Physics Letters, 2013, 103, .	3.3	56
6	Preparation of nanocrystalline Sb doped PbS thin films and their structural, optical, and electrical characterization. Superlattices and Microstructures, 2014, 75, 601-612.	3.1	56
7	Effect of growth temperature on structural, electrical and optical properties of dual ion beam sputtered ZnO thin films. Journal of Materials Science: Materials in Electronics, 2013, 24, 2541-2547.	2.2	52
8	Study of iron nitride thin films deposited by pulsed laser deposition. Journal of Alloys and Compounds, 2001, 326, 265-269.	5.5	49
9	AMOR â€” the time-of-flight neutron reflectometer at SINQ/PSI. Pramana - Journal of Physics, 2004, 63, 57-63.	1.8	49
10	Nitrogen Diffusion in Amorphous Silicon Nitride Isotope Multilayers Probed by Neutron Reflectometry. Physical Review Letters, 2006, 96, 055901.	7.8	49
11	Structural characterization of diamond-like carbon films for ultracold neutron applications. Diamond and Related Materials, 2007, 16, 334-341.	3.9	46
12	Effect of oxygen partial pressure on the behavior of dual ion beam sputtered ZnO thin films. Semiconductor Science and Technology, 2013, 28, 085014.	2.0	41
13	Self-diffusion of iron in amorphous iron nitride. Physical Review B, 2002, 65, .	3.2	40
14	Iron self-diffusion in amorphousFeZrâˆ•Fe57Zrmultilayers measured by neutron reflectometry. Physical Review B, 2004, 70, .	3.2	40
15	Thermal stability of nanometer range Ti/Ni multilayers. Thin Solid Films, 2006, 515, 2213-2219.	1.8	40
16	How to measure atomic diffusion processes in the sub-nanometer range. Acta Materialia, 2008, 56, 464-470.	7.9	40
17	Gradient doping â€“ a case study with Ti-Fe₂O₃ towards an improved photoelectrochemical response. Physical Chemistry Chemical Physics, 2016, 18, 32735-32743.	2.8	40
18	High Responsivity Mg_{<italic>x</italic>}Zn_{1â€“<italic>x</italic>}O Based Ultraviolet Photodetector Fabricated by Dual Ion Beam Sputtering. IEEE Sensors Journal, 2018, 18, 2744-2750.	4.7	40

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19	Impact of Self-Trapped Excitons on Blue Photoluminescence in TiO₂ Nanorods on Chemically Etched Si Pyramids. Journal of Physical Chemistry C, 2017, 121, 11448-11454.	3.1	38
20	Swift heavy ion irradiation and annealing effects in Fe/Si multilayers. Nuclear Instruments & Methods in Physics Research B, 1999, 156, 148-152.	1.4	37
21	Fe diffusion in amorphous and nanocrystalline alloys studied using nuclear resonance reflectivity. Physical Review B, 2005, 72, .	3.2	37
22	Depth profiling of marker layers using x-ray waveguide structures. Physical Review B, 2005, 72, .	3.2	35
23	3D Hierarchical Boron-Doped Diamond-Multilayered Graphene Nanowalls as an Efficient Supercapacitor Electrode. Journal of Physical Chemistry C, 2019, 123, 15458-15466.	3.1	35
24	<i>p</i>-type conduction from Sb-doped ZnO thin films grown by dual ion beam sputtering in the absence of oxygen ambient. Journal of Applied Physics, 2013, 114, .	2.5	34
25	Recommendation generation using personalized weight of meta-paths in heterogeneous information networks. European Journal of Operational Research, 2020, 284, 660-674.	5.7	34
26	Growth kinetics of intermetallic alloy phase at the interfaces of a Ni/Al multilayer using polarized neutron and x-ray reflectometry. Physical Review B, 2010, 81, .	3.2	33
27	Growth and characterization of dual ion beam sputtered Cu2ZnSn(S, Se)4 thin films for cost-effective photovoltaic application. Solar Energy, 2016, 139, 1-12.	6.1	31
28	Study of non-magnetic iron mononitride thin films. Journal of Alloys and Compounds, 2011, 509, 8283-8288.	5.5	30
29	Study of magnetic iron nitride thin films deposited by high power impulse magnetron sputtering. Surface and Coatings Technology, 2015, 275, 264-269.	4.8	30
30	Diamondlike carbon can replace beryllium in physics with ultracold neutrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 24-27.	4.1	27
31	Growth and characterizations of dual ion beam sputtered CIGS thin films for photovoltaic applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 3069-3076.	2.2	26
32	Origin of anomalous diffusion in iron mononitride thin films. Physical Review B, 2015, 92, .	3.2	26
33	HeteClass: A Meta-path based framework for transductive classification of objects in heterogeneous information networks. Expert Systems With Applications, 2017, 68, 106-122.	7.6	26
34	Cauliflowerâ€shaped ternary nanocomposites with enhanced power and energy density for supercapacitors. International Journal of Energy Research, 2019, 43, 3446-3460.	4.5	26
35	Iron and nitrogen self-diffusion in non-magnetic iron nitrides. Journal of Applied Physics, 2011, 110, .	2.5	25
36	Influence of annealing temperature on ZnO thin films grown by dual ion beam sputtering. Bulletin of Materials Science, 2014, 37, 983-989.	1.7	25

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37	Phase formation, thermal stability and magnetic moment of cobalt nitride thin films. AIP Advances, 2015, 5, .	1.3	25
38	Spetroscopic ellipsometry study on electrical and elemental properties of Sb-doped ZnO thin films. Current Applied Physics, 2015, 15, 479-485.	2.4	25
39	Fe and N self-diffusion in amorphous FeN: A SIMS and neutron reflectivity study. Acta Materialia, 2009, 57, 1263-1271.	7.9	24
40	Evolution of structural and magnetic properties of amorphous CoFeB film with thermal annealing. Journal of Applied Physics, 2013, 114, .	2.5	24
41	Evaluation of the band alignment and valence plasmonic features of a DIBS grown Ga-doped Mg_{0.05}Zn_{0.95}O/CIGSe heterojunction by photoelectron spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 485305.	2.8	24
42	Rigid-band electronic structure of scandium nitride across the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -type to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -type carrier transition regime. Physical Review B, 2019, 99, .	3.2	23
43	On the coexistence of spin and lattice polarons in the La0.67âˆ’xEuxCa0.33MnO3 CMR system. Solid State Communications, 2005, 133, 77-81.	1.9	22
44	Measurement of the Fermi potential of diamond-like carbon and other materials. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 647-656.	1.4	22
45	Effect of interface morphology on intermetallics formation upon annealing of Alâ€“Ni multilayer. Journal of Alloys and Compounds, 2013, 576, 257-261.	5.5	22
46	Effect of defects and oxygen vacancies on the RTFM properties of pure and Gd-doped CeO2 nanomaterials through soft XAS. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	22
47	Development of an ion-beam sputtering system for depositing thin films and multilayers of alloys and compounds. Applied Surface Science, 2003, 205, 309-322.	6.1	21
48	Influence of ion-beam sputtering deposition parameters on highly photosensitive and transparent CdZnO thin films. Journal of Materials Science, 2014, 49, 6917-6929.	3.7	21
49	Investigation of dual ion beam sputtered transparent conductive Ga-doped ZnO films. Journal of Materials Science: Materials in Electronics, 2013, 24, 4919-4924.	2.2	20
50	Effect of dopants on thermal stability and self-diffusion in iron-nitride thin films. Physical Review B, 2014, 90, .	3.2	20
51	Improved hydrogen sensing behaviour in ion-irradiated Pd-Au alloy thin films. Sensors and Actuators B: Chemical, 2019, 301, 127006.	7.8	20
52	Origin of Blue Luminescence in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Mg</mml:mi></mml:math> -Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ga</mml:mi><mml:mi mathvariant="normal">N</mml:mi></mml:math>. Physical Review Applied, 2019, 11, .	3.8	19
53	N concentration effects on structure and superconductivity of NbN thin films. Journal of Alloys and Compounds, 2021, 851, 155925.	5.5	19
54	Iron self-diffusion inFeZrâ^•Fe57Zrmultilayers measured by neutron reflectometry: Effect of applied compressive stress. Physical Review B, 2006, 74, .	3.2	18

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55	Formation of iron nitride thin films with Al and Ti additives. Journal of Applied Physics, 2012, 111, .	2.5	18
56	Behavior of dual ion beam sputtered MgZnO thin films for different oxygen partial pressure. Journal of Materials Science: Materials in Electronics, 2014, 25, 772-777.	2.2	18
57	Electronic structure of FeAl alloy studied by resonant photoemission spectroscopy and Ab initio calculations. Journal of Alloys and Compounds, 2016, 688, 187-194.	5.5	18
58	Microstructural study of iron nitride thin films deposited by ion beam sputtering. Vacuum, 2001, 60, 395-399.	3.5	17
59	Synthesis, microstructure and corrosion behavior of compositionally graded Ni-YSZ diffusion barrier coatings on inconel-690 for applications in high temperature environments. Corrosion Science, 2018, 135, 243-254.	6.6	17
60	Tunable electronic, electrical and optical properties of graphene oxide sheets by ion irradiation. Nanotechnology, 2018, 29, 185701.	2.6	17
61	Study of phase formulation in CrN thin films and its response to a minuscule oxygen flow in reactive sputtering process. Thin Solid Films, 2019, 670, 113-121.	1.8	17
62	Structural, optical and electronic properties of a Mg incorporated GaN nanowall network. RSC Advances, 2017, 7, 25998-26005.	3.6	16
63	Structural and magnetic properties of stoichiometric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>4</mml:mn></mm mathvariant="normal">N</mml:mi></mml:mrow></mml:math> epitaxial thin films. Physical Review B, 2019, 99, .	3.2	16
64	Role of additives (X=Ti, Zr) in phase formation and thermal stability of Feâ€“Xâ€“N thin films. Thin Solid Films, 2013, 536, 39-49.	1.8	15
65	Influence of O 2 pressure on structural, morphological and optical properties of TiO 2 -SiO 2 composite thin films prepared by pulsed laser deposition. Thin Solid Films, 2017, 629, 79-89.	1.8	15
66	Structural and magnetic properties of Co-N thin films deposited using magnetron sputtering at 523ÂK. Journal of Alloys and Compounds, 2017, 694, 1209-1213.	5.5	15
67	Effect of heavy metal interface on the magnetic behaviour and thermal stability of CoFeB film. Journal of Magnetism and Magnetic Materials, 2018, 466, 311-316.	2.3	15
68	Phase growth analysis of sputtered TiO₂ thin films at low oxygen partial pressures using XANES and XRR. Materials Research Express, 2019, 6, 116449.	1.6	15
69	Spreading the information in complex networks: Identifying a set of top-N influential nodes using network structure. Decision Support Systems, 2021, 149, 113608.	5.9	15
70	Investigation of DIBS-Deposited CdZnO/ZnO-Based Multiple Quantum Well for Large-Area Photovoltaic Application. IEEE Transactions on Electron Devices, 2020, 67, 5587-5592.	3.0	15
71	Pure Nuclear Reflection fromnaturalFeN0.7/57FeN0.7Multilayer. Journal of the Physical Society of Japan, 2004, 73, 423-429.	1.6	15
72	Iron self-diffusion in nanocrystalline FeZr thin films. Journal of Non-Crystalline Solids, 2004, 343, 39-47.	3.1	14

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73	Investigation of interface magnetic moment of Feâˆ•Ge multilayer: A neutron reflectivity study. Journal of Applied Physics, 2007, 101, 033913.	2.5	14
74	Ordering and self-diffusion in FePt alloy film. New Journal of Physics, 2008, 10, 053031.	2.9	14
75	Compositional effect of antimony on structural, optical, and photoluminescence properties of chemically deposited (Cd1âˆ’xSbx)S thin films. Superlattices and Microstructures, 2013, 59, 29-37.	3.1	14
76	Interface induced magnetic properties of Gd/Co heterostructures. Physical Chemistry Chemical Physics, 2018, 20, 21580-21589.	2.8	14
77	A novel apparatus for the investigation of material properties for the storage of ultracold neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 637-646.	1.6	13
78	Surfactant mediated growth of Ti/Ni multilayers. Applied Physics Letters, 2011, 98, .	3.3	13
79	Effect of precursor concentration on the properties and tuning of conductivity between p-type and n-type Cu1âˆ’XCdXS2 thin films deposited by a single step solution process as a novel material for photovoltaic applications. RSC Advances, 2015, 5, 23015-23021.	3.6	13
80	Effect of oxygen partial pressure on the structural and optical properties of ion beam sputtered TiO2 thin films. Thin Solid Films, 2016, 619, 86-90.	1.8	13
81	Local probing of the enhanced field electron emission of vertically aligned nitrogen-doped diamond nanorods and their plasma illumination properties. Diamond and Related Materials, 2018, 83, 118-125.	3.9	13
82	Magnetic depth profiling of FM/AF/FM trilayers by PNR. Physica B: Condensed Matter, 2005, 356, 46-50.	2.7	12
83	Diffusion behaviour of Nb in yttria-stabilized zirconia single crystals: A SIMS, AFM and X-ray reflectometry investigations. Applied Surface Science, 2006, 253, 1071-1080.	6.1	12
84	Surfactant controlled interfacial alloying in thermally evaporated Cu/Co multilayers. Journal of Alloys and Compounds, 2012, 522, 9-13.	5.5	12
85	Density and microstructure of a-C thin films. Diamond and Related Materials, 2018, 84, 71-76.	3.9	12
86	Antisymmetric magnetoresistance and helical magnetic structure in a compensated Gd/Co multilayer. Physical Review B, 2019, 100, .	3.2	12
87	XAS studies of brain-sponge CNClZnO nanostructures using polyaniline as dual source for solar light photocatalysis. Ceramics International, 2019, 45, 1314-1321.	4.8	12
88	Deposition of CuCdS2 thin film by single step solution process at low temperature as a novel absorber for photovoltaic applications. Superlattices and Microstructures, 2014, 76, 125-134.	3.1	11
89	Synergistic Effect of Singly Charged Oxygen Vacancies and Ligand Field for Regulating Transport Properties of Resistive Switching Memories. Journal of Physical Chemistry C, 2019, 123, 26812-26822.	3.1	11
90	Insight into the photophysics of strong dual emission (blue & green) producing graphene quantum dot clusters and their application towards selective and sensitive detection of trace level Fe³⁺ and Cr⁶⁺ ions. RSC Advances, 2020, 10, 26613-26630.	3.6	11

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91	Silicide layer formation in evaporated and sputtered Fe/Si multilayers: X-ray and neutron reflectivity study. Applied Surface Science, 2013, 277, 182-185.	6.1	10
92	Growth and characterization of Cu2ZnGeSe4 thin films by selenization of multiple stacks (Cu/Se/ZnSe/Se/Ge/Se) in high vacuum. Vacuum, 2016, 131, 264-270.	3.5	10
93	Structure and magnetization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mm thin film. Journal of Magnetism and Magnetic Materials, 2018, 448, 274-277.	2.3	10
94	Structural and magnetic properties of CoNi surface alloys. Physica B: Condensed Matter, 2019, 572, 105-108.	2.7	10
95	Study of reactively sputtered nickel nitride thin films. Journal of Alloys and Compounds, 2021, 851, 156299.	5.5	10
96	Effect of Ag layer thickness on optical and electrical properties of ion-beam-sputtered TiO2/Ag/TiO2 multilayer thin film. Journal of Materials Science: Materials in Electronics, 2022, 33, 6942-6953.	2.2	10
97	Preparation of Fe/Pt Films with Perpendicular Magnetic Anisotropy. Hyperfine Interactions, 2005, 160, 157-163.	0.5	9
98	Structural and Magnetic Study of an Electrodeposited Niâˆ•Cu Thin Film by Neutron Reflectometry. Electrochemical and Solid-State Letters, 2006, 9, J5.	2.2	9
99	Diamond-like carbon coatings for Ultracold Neutron applications. Diamond and Related Materials, 2006, 15, 928-931.	3.9	9
100	Magnetization in permalloy thin films. Pramana - Journal of Physics, 2008, 71, 1123-1127.	1.8	9
101	Dimensional crossover of electron weak localization in ZnO/TiOx stacked layers grown by atomic layer deposition. Applied Physics Letters, 2016, 108, .	3.3	9
102	Investigation of local structural and magnetic properties of discontinuous to continuous layer of Co at Co/MgO interface in MgO/Co/MgO trilayer structure. Journal of Alloys and Compounds, 2017, 700, 267-271.	5.5	9
103	Effect of selenium incorporation at precursor stage on growth and properties of Cu2ZnSnSe4 thin films. Vacuum, 2017, 144, 43-52.	3.5	9
104	Direct synthesis of electrowettable nanostructured hybrid diamond. Journal of Materials Chemistry A, 2019, 7, 19026-19036.	10.3	9
105	Synthesis, structure and magnetization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mm thin films. Journal of Magnetism and Magnetic Materials, 2019, 489, 165376.	2.3	9
106	Interface sharpening in miscible and isotopic multilayers: Role of short-circuit diffusion. Physical Review B, 2019, 99, .	3.2	9
107	Effect of interfacial interdiffusion on magnetism in epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>4</mml:mn></mm mathvariant="normal">N</mml:mi></mml:mrow></mml:math> films on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub>< substrates. Physical Review Materials, 2019, 3, .	2.4	9
108	Structural characterization of epitaxial Fe/Cr multilayers using anomalous X-ray and neutron reflectivity. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1219-1220.	2.3	8

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109	Study of interfacial properties and its effect on magnetization behaviour of Fe/Ni multilayer structure. Applied Surface Science, 2004, 238, 254-261.	6.1	8
110	Correlation between iron self-diffusion and thermal stability in doped iron nitride thin films. Journal of Applied Physics, 2014, 116, 222206.	2.5	8
111	Identification of a kinetic length scale which dictates alloy phase composition in Ni-Al interfaces on annealing at low temperatures. Journal of Applied Physics, 2014, 116, .	2.5	8
112	<i>In situ</i>small-angle x-ray and nuclear resonant scattering study of the evolution of structural and magnetic properties of an Fe thin film on MgO (001). Physical Review B, 2015, 92, .	3.2	8
113	Effect of thermal annealing on the phase evolution of silver tungstate in Ag/WO 3 films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 239-244.	3.9	8
114	Effects of oxygen partial pressure and annealing on dispersive optical nonlinearity in NiO thin films. Journal of Applied Physics, 2017, 122, .	2.5	8
115	Electronic structure of Pr₂MnNiO₆from x-ray photoemission, absorption and density functional theory. Journal of Physics Condensed Matter, 2018, 30, 435603.	1.8	8
116	Oxygen mediated phase transformation in room temperature grown TiO2 thin films with enhanced photocatalytic activity. Applied Physics Letters, 2018, 113, .	3.3	8
117	Magnetically tuned absorptive optical nonlinearity in NiO thin films. Optical Materials, 2018, 84, 893-898.	3.6	8
118	Influence of annealing on spin pumping in sputtered deposited Co/Pt bilayer thin films. Physica B: Condensed Matter, 2019, 570, 254-258.	2.7	8
119	Depth-resolved compositional analysis of W/B₄C multilayers using resonant soft X-ray reflectivity. Journal of Synchrotron Radiation, 2019, 26, 793-800.	2.4	8
120	Annealing induced modifications in physicochemical and optoelectronic properties of CdS/CuInGaSe2 thin film. Solar Energy, 2019, 177, 1-7.	6.1	8
121	Magnetization of Fe4N thin films: Suppression of interfacial intermixing using buffer layers. Journal of Magnetism and Magnetic Materials, 2020, 507, 166806.	2.3	8
122	Structural and surface morphological studies of long chain fatty acid thin films deposited by Langmuirâ€“Blodgett technique. Physica B: Condensed Matter, 2012, 407, 4777-4782.	2.7	7
123	Depth dependent structure and magnetic properties and their correlation with magnetotransport in Fe/Au multilayers. Thin Solid Films, 2014, 550, 326-333.	1.8	7
124	Stoichiometry dependent inter diffusion and structural evolution in Alâ€“Ni multilayer. Journal of Alloys and Compounds, 2015, 631, 46-51.	5.5	7
125	Effect of Al doping on phase formation and thermal stability of iron nitride thin films. Journal of Alloys and Compounds, 2015, 650, 647-653.	5.5	7
126	Nanoscale self-recovery of resistive switching in Ar⁺irradiated TiO_{2âˆ'<i>x</i>}films. Journal Physics D: Applied Physics, 2017, 50, 475304.	2.8	7

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127	Low temperature crystallization of Cu2ZnSnSe4 thin films using binary selenide precursors. Journal of Materials Science: Materials in Electronics, 2017, 28, 18244-18253.	2.2	7
128	Evolution with thermal annealing of magnetic anisotropy in FeCoB thin film interfaced with Mo layers. Journal of Magnetism and Magnetic Materials, 2018, 448, 100-106.	2.3	7
129	In-situ growth of iron mononitride thin films studied using x-ray absorption spectroscopy and nuclear resonant scattering. Hyperfine Interactions, 2019, 240, 1.	0.5	7
130	Structural and magnetic properties of FeN thin films grown on TiN. Physica B: Condensed Matter, 2019, 572, 94-97.	2.7	7
131	Electronic structure by X-ray absorption spectroscopy and observation of field induced unusually slow spin relaxation from magnetic properties in pyrochlore Eu2â^'xFexTi2O7. Journal of Magnetism and Magnetic Materials, 2019, 476, 7-17.	2.3	7
132	Clustering of oxygen point defects in transition metal nitrides. Journal of Applied Physics, 2021, 129, .	2.5	7
133	Surfactant controlled interface roughness and spin-dependent scattering in Cu/Co multilayers. Applied Physics A: Materials Science and Processing, 2013, 111, 495-499.	2.3	6
134	Positional Controlled Manipulation of the Carbon Nanotube Surface by Selective Screening. Journal of Physical Chemistry C, 2015, 119, 716-723.	3.1	6
135	Study of the structural phase transformation, and optical behavior of the as synthesized ZnOâ€"SnO2â€"TiO2nanocomposite. Phase Transitions, 2015, 88, 1122-1136.	1.3	6
136	Enhanced radial growth of Mg doped GaN nanorods: A combined experimental and <i>first-principles</i> study. Journal of Applied Physics, 2018, 123, .	2.5	6
137	Influence of Selenization Time on Microstructural, Optical, and Electrical Properties of Cu2ZnGeSe4 Films. Journal of Electronic Materials, 2018, 47, 800-810.	2.2	6
138	Revealing carbon mediated luminescence centers with enhanced lifetime in porous alumina. Journal of Applied Physics, 2019, 126, 164904.	2.5	6
139	Annealing driven positive and negative exchange bias in Feâ€"Cuâ€"Pt heterostructures at room temperature. Journal of Alloys and Compounds, 2020, 815, 152640.	5.5	6
140	X-ray absorption spectroscopy study of cobalt mononitride thin films. SN Applied Sciences, 2020, 2, 1.	2.9	6
141	Study of Interfaces in Hf/Fe System Using Magnetoâ€Optical Kerr Effect and Soft Xâ€Ray Absorption Spectroscopy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000177.	2.4	6
142	Structural, optical and electronic properties of Ni_{1â^'x}Co_xO in the complete composition range. RSC Advances, 2020, 10, 43497-43507.	3.6	6
143	Synthesis and structural investigation of stoichiometric iron mononitride thin films. Journal of Physics and Chemistry of Solids, 2020, 147, 109653.	4.0	6
144	Fully dense, highly conductive nanocrystalline TiN diffusion barrier on steel via reactive high power impulse magnetron sputtering. Thin Solid Films, 2021, 722, 138578.	1.8	6

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145	Study of nano-scale diffusion in thin films and multilayers. Hyperfine Interactions, 2008, 182, 23-30.	0.5	5
146	Surfactant induced symmetric and thermally stable interfaces in Cu/Co multilayers. Journal of Physics Condensed Matter, 2011, 23, 485003.	1.8	5
147	Study of strain propagation in laser irradiated silicon crystal by time-resolved diffraction of K-Î± x-ray probe of different photon energies. Journal of Applied Physics, 2013, 114, 023302.	2.5	5
148	Study of surfactant mediated growth of Ni/V superlattices. Journal of Applied Physics, 2013, 114, 024307.	2.5	5
149	Effect of film thickness on the magneto-structural properties of ion beam sputtered transition metalâ€“metalloid FeCoNbB/Si (100) alloy thin films. Materials Research Express, 2016, 3, 086102.	1.6	5
150	Surface and grain boundary interdiffusion in nanometer-scale LSMO/BFO bilayer. Journal of Magnetism and Magnetic Materials, 2016, 405, 72-77.	2.3	5
151	Growth Mechanism of Pine-leaf-like Nanostructure from the Backbone of SrCO₃ Nanorods using LaMerâ€™s Surface Diffusion: Impact of Higher Surface Energy (Î³ = 38.9) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Calculations. Crystal Growth and Design, 2017, 17, 6394-6406.	3.0	5
152	Magnetic properties of ordered polycrystalline FeRh thin films. RSC Advances, 2017, 7, 44097-44103.	3.6	5
153	Local Structure Investigation of Mnâ€•and Coâ€“Doped TiO₂ Thin Films by Xâ€Ray Absorption Spectroscopy. ChemistrySelect, 2017, 2, 11012-11024.	1.5	5
154	Room temperature superparamagnetism in ternary (Fe50Pt50)0.42Cu0.58 phase at interfaces on annealing of Fe50Pt50/Cu multilayer. Journal of Magnetism and Magnetic Materials, 2018, 462, 58-69.	2.3	5
155	Study of interface induced anisotropic exchange coupling in amorphous FeCoB/MgO bilayer. Journal of Alloys and Compounds, 2019, 789, 330-335.	5.5	5
156	DPRel: A Meta-Path Based Relevance Measure for Mining Heterogeneous Networks. Information Systems Frontiers, 2019, 21, 979-995.	6.4	5
157	Interfacial chemistry and electronic structure of epitaxial lattice-matched TiN/Al0.72Sc0.28N metal/semiconductor superlattices determined with soft x-ray scattering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	5
158	Effect of disorder on superconductivity of NbN thin films studied using x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 305401.	1.8	5
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