Ashutosh Tiwari

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review of recent advances in nonenzymatic glucose sensors. Materials Science and Engineering C, 2014, 41, 100-118.	7.3	469
2	Zn0.9Co0.1O-based diluted magnetic semiconducting thin films. Applied Physics Letters, 2004, 84, 5255-5257.	3.3	301
3	Ferromagnetism in Co doped CeO2: Observation of a giant magnetic moment with a high Curie temperature. Applied Physics Letters, 2006, 88, 142511.	3.3	210
4	Recent advances in oxide thermoelectric materials and modules. Vacuum, 2017, 146, 356-374.	3.5	146
5	2D Tin Monoxide—An Unexplored pâ€Type van der Waals Semiconductor: Material Characteristics and Field Effect Transistors. Advanced Electronic Materials, 2016, 2, 1500453.	5.1	125
6	Recent Developments in Perpendicular Magnetic Anisotropy Thin Films for Data Storage Applications. Vacuum, 2017, 146, 329-341.	3.5	123
7	Growth of centimeter-scale atomically thin MoS ₂ films by pulsed laser deposition. APL Materials, 2015, 3, 056103.	5.1	115
8	Ferromagnetism in Cu-doped ZnO films: Role of charge carriers. Applied Physics Letters, 2008, 92, .	3.3	110
9	Rectifying electrical characteristics of La0.7Sr0.3MnO3/ZnO heterostructure. Applied Physics Letters, 2003, 83, 1773-1775.	3.3	91
10	Enzymatic glucose sensor based on Au nanoparticle and plant-like ZnO film modified electrode. Materials Science and Engineering C, 2015, 46, 548-552.	7.3	82
11	P-type SnO thin films and SnO/ZnO heterostructures for all-oxide electronic and optoelectronic device applications. Thin Solid Films, 2016, 605, 193-201.	1.8	82
12	Terbium Ion Doping in Ca3Co4O9: A Step towards High-Performance Thermoelectric Materials. Scientific Reports, 2017, 7, 44621.	3.3	80
13	Ferromagnetism in Ni-doped ZnO films: Extrinsic or intrinsic?. Applied Physics Letters, 2009, 94, .	3.3	78
14	Recent developments in garnet based solid state electrolytes for thin film batteries. Current Opinion in Solid State and Materials Science, 2014, 18, 29-38.	11.5	77
15	Strain-induced tuning of metal–insulator transition in NdNiO3. Applied Physics Letters, 2002, 80, 4039-4041.	3.3	75
16	Robust longitudinal spin-Seebeck effect in Bi-YIG thin films. Scientific Reports, 2014, 4, 4429.	3.3	75
17	Structural, electrical, and optical characterizations of epitaxial Zn1â^'xGaxO films grown on sapphire (0001) substrate. Journal of Applied Physics, 2007, 101, 124912.	2.5	68
18	Temperatureâ€dependent study of the Raman A mode of Cu ₂ ZnSnS ₄ thin films. Physica Status Solidi (B): Basic Research, 2011, 248, 2170-2174.	1.5	53

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19	Synthesis of Cubic Phase Li7La3Zr2O12 Electrolyte for Solid-State Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2012, 15, A37.	2.2	52
20	Epitaxial growth of ZnO films on Si(111). Journal of Materials Research, 2002, 17, 2480-2483.	2.6	48
21	Antimicrobial properties of silver-doped hydroxyapatite nano-powders and thin films. Jom, 2010, 62, 65-70.	1.9	44
22	Unexpected magnetic behavior of Cu-doped CeO2. Applied Physics Letters, 2010, 96, .	3.3	43
23	Copper diffusion characteristics in single-crystal and polycrystalline TaN. Applied Physics Letters, 2002, 81, 1453-1455.	3.3	40
24	Nonenzymatic glucose sensing using metal oxides – Comparison of CuO, Co3O4, and NiO. Vacuum, 2018, 155, 696-701.	3.5	40
25	Controlled synthesis of hydroxyapatite-based coatings for biomedical application. Materials Science and Engineering C, 2009, 29, 1071-1076.	7.3	38
26	Synthesis and characterization of copper-infiltrated carbonized wood monoliths for supercapacitor electrodes. Electrochimica Acta, 2015, 161, 343-350.	5.2	37
27	Facile preparation of nickel/carbonized wood nanocomposite for environmentally friendly supercapacitor electrodes. Scientific Reports, 2016, 6, 33659.	3.3	37
28	Epitaxial growth of TaN thin films on Si(100) and Si(111) using a TiN buffer layer. Applied Physics Letters, 2002, 80, 2323-2325.	3.3	35
29	Growth of two-dimensional WS2 thin films by pulsed laser deposition technique. Thin Solid Films, 2018, 668, 69-73.	1.8	34
30	Metal-insulator transition in La0.7Sr0.3Mn1â^'xFexO3. Journal of Applied Physics, 1999, 86, 5175-5178.	2.5	31
31	Progress in Zno-based diluted magnetic semiconductors. Jom, 2009, 61, 72-75.	1.9	28
32	Co-doped ZnO dilute magnetic semiconductor. Journal of Electronic Materials, 2006, 35, 852-856.	2.2	27
33	A simple and selective colorimetric mercury (II) sensing system based on chitosan stabilized gold nanoparticles and 2,6-pyridinedicarboxylic acid. Materials Science and Engineering C, 2017, 71, 195-199.	7.3	27
34	Synthesis and Characterization of ZnO Nano-Plant-Like Electrodes. Journal of Nanoscience and Nanotechnology, 2008, 8, 3981-3987.	0.9	26
35	Low temperature electrical transport in La1â^'xNdxNiO3â~'δ. Solid State Communications, 2002, 121, 357-361.	1.9	24
36	CuPt Alloy Thin Films for Application in Spin Thermoelectrics. Scientific Reports, 2019, 9, 3133.	3.3	22

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37	Electrical transport in. Journal of Physics Condensed Matter, 1999, 11, 3291-3298.	1.8	21
38	Growth and characterization of zinc oxide thin films on flexible substrates at low temperature using pulsed laser deposition. Vacuum, 2017, 146, 483-491.	3.5	21
39	Influence of the planar orientation of the substrate on thermoelectric response of SnSe thin films. Journal of Physics and Chemistry of Solids, 2019, 129, 347-353.	4.0	20
40	Effect of Composition and Thickness on the Perpendicular Magnetic Anisotropy of (Co/Pd) Multilayers. Sensors, 2017, 17, 2743.	3.8	19
41	A Review of Strategies for Developing Promising Thermoelectric Materials by Controlling Thermal Conduction. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800904.	1.8	19
42	Origin of room-temperature ferromagnetism in cobalt-doped ZnO. Journal of Electronic Materials, 2004, 33, 1298-1302.	2.2	17
43	Thermoelectric response of porous Ca3Co4O9 prepared by an eco-friendly technique. Ceramics International, 2017, 43, 9505-9511.	4.8	17
44	Growth and properties of Cu2ZnSnS4 thin films prepared by multiple metallic layer stacks as a function of sulfurization time. Journal of Materials Science: Materials in Electronics, 2017, 28, 11702-11711.	2.2	15
45	Simple and rapid green synthesis of micrometer scale single crystalline gold nanoplates using chitosan as the reducing agent. Journal of Crystal Growth, 2014, 406, 12-17.	1.5	14
46	Growth and characteristics of TaN/TiN superlattice structures. Applied Physics Letters, 2003, 83, 3072-3074.	3.3	13
47	Role of Self-assembled Gold Nanodots in Improving the Electrical and Optical Characteristics of Zinc Oxide Films. Journal of Nanoscience and Nanotechnology, 2003, 3, 368-371.	0.9	13
48	Understanding the effect of thickness on the thermoelectric properties of Ca3Co4O9 thin films. Scientific Reports, 2021, 11, 6324.	3.3	13
49	Growth of epitaxial NdNiO3 and integration with Si(100). Applied Physics Letters, 2002, 80, 1337-1339.	3.3	12
50	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnects. Journal of Electronic Materials, 2003, 32, 994-999.	2.2	10
51	Spin-glass behavior and magnetocaloric properties of high-entropy perovskite oxides. Applied Physics Letters, 2022, 120, .	3.3	10
52	Proton conducting BaZr0.8Y0.2O3â^'x thin films by pulsed laser deposition technique. Journal of Crystal Growth, 2008, 310, 3590-3595.	1.5	9
53	Spintronic detection of interfacial magnetic switching in a paramagnetic thin film of tris(8-hydroxyquinoline)iron(III). Physical Review B, 2017, 95, .	3.2	9
54	Characterization of Li ₇ La ₃ Zr ₂ O ₁₂ Thin Films Prepared by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2012, 1471, 37.	0.1	7

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55	Towards actinide heterostructure synthesis and science. Nature Communications, 2022, 13, 2221.	12.8	6
56	WEAK-LOCALIZATION EFFECT IN SINGLE CRYSTAL TaN(001) FILMS. Modern Physics Letters B, 2002, 16, 1143-1149.	1.9	5
57	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnections. Journal of Electronic Materials, 2004, 33, L5-L5.	2.2	4
58	Anomalous Thermoelectric Power of Sol–Gel Prepared NdNiO3-Î′. Modern Physics Letters B, 1997, 11, 1161-1167.	1.9	3
59	Growth of epitaxial ZnO films on Si(111). Materials Research Society Symposia Proceedings, 2002, 722, 1071.	0.1	3
60	Magnetic materials and devices: Research and applications. Jom, 2011, 63, 24-24.	1.9	2
61	Magnetic behavior of CeO2- \hat{l}' thin films doped with non-magnetic transition metals. Jom, 2011, 63, 25-28.	1.9	2
62	A Study of Increased Resistivity of FTO Back Contact for CZTS Based Absorber Material Grown by Electrodeposition-Annealing Route. Materials Research Society Symposia Proceedings, 2011, 1315, 1.	0.1	2
63	A factorial design of experiments approach to synthesize CZTS absorber material from aqueous media. Materials Research Society Symposia Proceedings, 2011, 1288, 1.	0.1	2
64	Novel Low Temperature Molten Salt Synthesis of a Li5La3Nb2O12 Solid State Electrolyte and Its Properties. Materials Research Society Symposia Proceedings, 2014, 1679, 7.	0.1	2
65	Spin Current Response in Bi-YIG/Pt Thin Film Heterostructures Induced by Gamma Radiation. IEEE Electron Device Letters, 2015, 36, 853-855.	3.9	2
66	2D Materials: 2D Tin Monoxide-An Unexplored p-Type van der Waals Semiconductor: Material Characteristics and Field Effect Transistors (Adv. Electron. Mater. 4/2016). Advanced Electronic Materials, 2016, 2, .	5.1	2
67	Growth of TiN/AlN Superlattice by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	1
68	Room-temperature solid-state radiation detectors based on spintronics. , 2012, , .		1
69	Garnet-type Li7La3Zr2O12 Electrolyte Prepared by a Solution-Based Technique for Lithium ion battery. Materials Research Society Symposia Proceedings, 2012, 1440, 73.	0.1	1
70	Kinetically stable glassy phase formation in neodymium nickelate thin films as evidenced by Hall effect and electrical resistivity measurements. Journal of Materials Research, 2013, 28, 1699-1706.	2.6	1
71	Electrochemical Performance of Cu Nanoparticle/Carbonized Wood Electrode for Supercapacitor Application. Materials Research Society Symposia Proceedings, 2014, 1678, 19.	0.1	1
72	Low Temperature Magnetotransport Properties of Polycrystalline Ca3Co4O9. MRS Advances, 2017, 2, 1237-1242.	0.9	1

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73	Single Crystal TaN Thin Films on TiN/Si Heterostructure. Materials Research Society Symposia Proceedings, 2002, 716, 881.	0.1	0
74	Copper Diffusion Characteristics in Single Crystal and Polycrystalline TaN. Materials Research Society Symposia Proceedings, 2002, 745, 6111.	0.1	0
75	Growth and Observation of Low-Field Giant Magnetoresistance in La0.7Sr0.3MnO3/ZnO Superlattice Structures. Journal of Nanoscience and Nanotechnology, 2006, 6, 612-617.	0.9	0
76	Spintronic materials and devices: Advances and applications. Jom, 2009, 61, 66-66.	1.9	0
77	Electrical Transport in Ultrathin NdNiO3 Films. Materials Research Society Symposia Proceedings, 2012, 1454, 27-32.	0.1	0
78	Modification of High Potential, High Capacity Li2FeP2O7 Cathode Material for Lithium Ion Batteries. Materials Research Society Symposia Proceedings, 2012, 1440, 37.	0.1	0
79	A Review of Strategies for Developing Promising Thermoelectric Materials by Controlling Thermal Conduction (Phys. Status Solidi A 14â^2019). Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1970048.	1.8	0
80	Self-Aligned Passivated Copper Interconnects: A Novel Technique for Making Interconnections in Ultra Large Scale Integration Device Applications. Materials Research Society Symposia Proceedings, 2002, 716, 811.	0.1	0