Ramana Chintalapalle

List of Publications by Year
in descending order

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159 papers	5,815 citations	61984 43 h-index	91884 69 g-index
162 all docs	162 docs citations	162 times ranked	6128 citing authors

#	Article	IF	Citations
1	Structural Stability and Phase Transitions in WO3Thin Films. Journal of Physical Chemistry B, 2006, 110, 10430-10435.	2.6	239
2	Structural characteristics, electrical conduction and dielectric properties of gadolinium substituted cobalt ferrite. Journal of Alloys and Compounds, 2014, 617, 547-562.	5.5	228
3	Structure, Morphology, and Optical Properties of Amorphous and Nanocrystalline Gallium Oxide Thin Films. Journal of Physical Chemistry C, 2013, 117, 4194-4200.	3.1	186
4	Structure, morphology and optical properties of nanocrystalline yttrium oxide (Y2O3) thin films. Optical Materials, 2012, 34, 893-900.	3.6	160
5	Effect of Structure and Size on the Electrical Properties of Nanocrystalline WO₃ Films. ACS Applied Materials & Interfaces, 2010, 2, 2623-2628.	8.0	153
6	Chemical bonding, optical constants, and electrical resistivity of sputter-deposited gallium oxide thin films. Journal of Applied Physics, 2014, 115, .	2.5	146
7	Dielectric, Complex Impedance, and Electrical Transport Properties of Erbium (Er³⁺) Ion-Substituted Nanocrystalline, Cobalt-Rich Ferrite (Co_{1.1}Fe_{1.9â€“x}Er_xO₄). Journal of Physical Chemistry C, 2016, 120, 5682-5693.	3.1	145
8	Growth and surface characterization of sputter-deposited molybdenum oxide thin films. Applied Surface Science, 2007, 253, 5368-5374.	6.1	130
9	Cobalt nanoparticles for biomedical applications: Facile synthesis, physiochemical characterization, cytotoxicity behavior and biocompatibility. Applied Surface Science, 2017, 414, 171-187.	6.1	128
10	Dielectric relaxations and alternating current conductivity in manganese substituted cobalt ferrite. Journal of Applied Physics, 2014, 115, .	2.5	122
11	Correlation between Growth Conditions, Microstructure, and Optical Properties in Pulsed-Laser-Deposited V2O5Thin Films. Chemistry of Materials, 2005, 17, 1213-1219.	6.7	120
12	X-ray Photoelectron Spectroscopy Depth Profiling of La₂O₃/Si Thin Films Deposited by Reactive Magnetron Sputtering. ACS Applied Materials & Interfaces, 2011, 3, 4370-4373.	8.0	118
13	Grain size effects on the optical characteristics of pulsed-laser deposited vanadium oxide thin films. Physica Status Solidi A, 2003, 199, R4-R6.	1.7	113
14	Correlation between structural, magnetic, and dielectric properties of manganese substituted cobalt ferrite. Journal of Applied Physics, 2013, 114, .	2.5	111
15	Impedance spectroscopic characterization of gadolinium substituted cobalt ferrite ceramics. Journal of Applied Physics, 2014, 116, .	2.5	99
16	Surface analysis of pulsed laser-deposited V2O5 thin films and their lithium intercalated products studied by Raman spectroscopy. Surface and Interface Analysis, 2005, 37, 406-411.	1.8	98
17	Low-Temperature Chemical Synthesis and Microstructure Analysis of GeO₂ Crystals with Î±-Quartz Structure. Crystal Growth and Design, 2009, 9, 1829-1832.	3.0	96
18	Alginate Hydrogels with Embedded ZnO Nanoparticles for Wound Healing Therapy . International Journal of Nanomedicine, 2020, Volume 15, 5097-5111.	6.7	92

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19	Improved electrical and dielectric properties of La-doped Co ferrite. Journal of Materials Research, 2011, 26, 584-591.	2.6	85
20	Structure and optical properties of nanocrystalline hafnium oxide thin films. Optical Materials, 2014, 37, 621-628.	3.6	82
21	Electronic Structure and Optical Quality of Nanocrystalline Y₂O₃ Film Surfaces and Interfaces on Silicon. Journal of Physical Chemistry C, 2014, 118, 13644-13651.	3.1	81
22	Optical properties and thermal stability of germanium oxide (GeO2) nanocrystals with Î±-quartz structure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 279-284.	3.5	80
23	Enhanced optical constants of nanocrystalline yttrium oxide thin films. Applied Physics Letters, 2011, 98, .	3.3	79
24	Chemical and electrochemical properties of molybdenum oxide thin films prepared by reactive pulsed-laser assisted deposition. Chemical Physics Letters, 2006, 428, 114-118.	2.6	78
25	Low-temperature synthesis of morphology controlled metastable hexagonal molybdenum trioxide (MoO3). Solid State Communications, 2009, 149, 6-9.	1.9	78
26	Chemical bonding and magnetic properties of gadolinium (Gd) substituted cobalt ferrite. Journal of Alloys and Compounds, 2015, 644, 470-475.	5.5	74
27	Particle Size, Morphology, and Chemical Composition Controlled CoFe₂O₄ Nanoparticles with Tunable Magnetic Properties via Oleic Acid Based Solvothermal Synthesis for Application in Electronic Devices. ACS Applied Nano Materials, 2019, 2, 1828-1843.	5.0	73
28	Dielectric, electrical transport and magnetic properties of Er3+substituted nanocrystalline cobalt ferrite. Journal of Physics and Chemistry of Solids, 2016, 98, 20-27.	4.0	68
29	Spectroscopic ellipsometry characterization of the optical properties and thermal stability of ZrO2 films made by ion-beam assisted deposition. Applied Physics Letters, 2008, 92, .	3.3	67
30	Optical Constants of Amorphous, Transparent Titanium-Doped Tungsten Oxide Thin Films. ACS Applied Materials & Interfaces, 2013, 5, 4659-4666.	8.0	62
31	Structure and chemical properties of molybdenum oxide thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1166-1171.	2.1	60
32	Eco-Friendly Synthesis, Crystal Chemistry, and Magnetic Properties of Manganese-Substituted CoFe₂O₄ Nanoparticles. ACS Omega, 2020, 5, 19315-19330.	3.5	54
33	Growth and structural properties of Î±-MoO3 (010) microplates with atomically flat surface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 159-163.	3.5	53
34	Crystal Structure, Phase, and Electrical Conductivity of Nanocrystalline W_{0.95}Ti_{0.05}O₃ Thin Films. ACS Applied Materials & Interfaces, 2011, 3, 863-868.	8.0	53
35	Coexistence of spin glass behavior and long-range ferrimagnetic ordering in La- and Dy-doped Co ferrite. Journal of Applied Physics, 2011, 109, .	2.5	47
36	Growth Behavior, Lattice Expansion, Strain, and Surface Morphology of Nanocrystalline, Monoclinic HfO₂ Thin Films. Journal of Physical Chemistry C, 2012, 116, 9955-9960.	3.1	47

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37	Growth and characteristics of reactive pulsed laser deposited molybdenum trioxide thin films. Applied Physics A: Materials Science and Processing, 2002, 75, 417-422.	2.3	46
38	Tungsten-incorporation induced red-shift in the bandgap of gallium oxide thin films. Applied Physics Letters, 2013, 102, .	3.3	46
39	Size and Chemistry Controlled Cobalt-Ferrite Nanoparticles and Their Anti-proliferative Effect against the MCF-7 Breast Cancer Cells. ACS Biomaterials Science and Engineering, 2016, 2, 2139-2152.	5.2	46
40	Novel Lithium Iron Pyrophosphate (LiFe_{1.5}P₂O₇) as a Positive Electrode for Li-Ion Batteries. Chemistry of Materials, 2007, 19, 5319-5324.	6.7	45
41	Crystal Chemistry, Band-Gap Red Shift, and Electrocatalytic Activity of Iron-Doped Gallium Oxide Ceramics. ACS Omega, 2020, 5, 104-112.	3.5	45
42	Low-temperature growth of vanadium pentoxide thin films produced by pulsed laser ablation. Journal Physics D: Applied Physics, 2001, 34, L35-L38.	2.8	44
43	Spectroscopic ellipsometry and x-ray photoelectron spectroscopy of La2O3 thin films deposited by reactive magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	2.1	44
44	Correlation between structural, magnetic and ferroelectric properties of Fe-doped (Ba-Ca)TiO3 lead-free piezoelectric. Journal of Alloys and Compounds, 2017, 712, 320-333.	5.5	44
45	Tungsten Incorporation into Gallium Oxide: Crystal Structure, Surface and Interface Chemistry, Thermal Stability, and Interdiffusion. Journal of Physical Chemistry C, 2016, 120, 26720-26735.	3.1	42
46	Size-effects on the optical properties of zirconium oxide thin films. Applied Physics Letters, 2009, 95, .	3.3	39
47	Growth, microstructure and electrical properties of sputter-deposited hafnium oxide (HfO2) thin films grown using a HfO2 ceramic target. Applied Surface Science, 2011, 257, 2197-2202.	6.1	39
48	Microstructural features of pulsed-laser deposited V2O5 thin films. Applied Surface Science, 2003, 207, 135-138.	6.1	38
49	Synthesis and microstructure of Gd2O3-doped HfO2 ceramics. Ceramics International, 2012, 38, 1801-1806.	4.8	37
50	Spectroscopic analysis of tungsten oxide thin films. Journal of Materials Research, 2010, 25, 2401-2406.	2.6	35
51	Mechanical Properties of Nanocrystalline and Amorphous Gallium Oxide Thin Films. Advanced Engineering Materials, 2018, 20, 1701033.	3.5	34
52	Static and cyclic oxidation of Nb-Cr-V-W-Ta high entropy alloy in air from 600 to 1400â€‰Â°C. Journal of Materials Science and Technology, 2020, 38, 189-196.	10.7	34
53	Direct, functional relationship between structural and optical properties in titanium-incorporated gallium oxide nanocrystalline thin films. Applied Physics Letters, 2017, 110, 061902.	3.3	33
54	Correlation between microstructure, electrical and optical properties of nanocrystalline NiFe_{1.925}Dy_{0.075}O₄thin films. RSC Advances, 2012, 2, 941-948.	3.6	30

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55	3D printed high performance strain sensors for high temperature applications. Journal of Applied Physics, 2018, 123, .	2.5	30
56	Structure and AC conductivity of nanocrystalline Yttrium oxide thin films. Thin Solid Films, 2011, 519, 7947-7950.	1.8	29
57	Dysprosium-substitution induced changes in the structure and optical properties of nickel ferrite (NiFe2O4) thin films. Chemical Physics Letters, 2011, 504, 202-205.	2.6	29
58	Electrochemical properties of sputter-deposited MoO3 films in lithium microbatteries. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	28
59	Tailoring the index of refraction of nanocrystalline hafnium oxide thin films. Applied Physics Letters, 2014, 104, 101907.	3.3	28
60	Field emission properties of nano-structured cobalt ferrite (CoFe2O4) synthesized by low-temperature chemical method. Chemical Physics Letters, 2018, 701, 151-156.	2.6	28
61	Rapid Response High Temperature Oxygen Sensor Based on Titanium Doped Gallium Oxide. Scientific Reports, 2020, 10, 178.	3.3	28
62	Electrical properties of germanium oxide with Î±-quartz structure prepared by chemical precipitation. Ceramics International, 2012, 38, 5251-5255.	4.8	27
63	Controlled surface/interface structure and spin enabled superior properties and biocompatibility of cobalt ferrite nanoparticles. Applied Surface Science, 2018, 459, 788-801.	6.1	26
64	Effect of Molybdenum Incorporation on the Structure and Magnetic Properties of Cobalt Ferrite. Journal of Physical Chemistry C, 2017, 121, 25463-25471.	3.1	25
65	Ferroelectric, piezoelectric and electrostrictive properties of Sn⁴⁺â€modified Ba_{0.7}Ca_{0.3}TiO₃ leadâ€free electroceramics. Journal of the American Ceramic Society, 2017, 100, 5755-5765.	3.8	25
66	Improved magnetostrictive properties of cobalt ferrite (CoFe2O4) by Mn and Dy co-substitution for magneto-mechanical sensors. Journal of Applied Physics, 2019, 126, .	2.5	25
67	Growth, Structure, and Thermal Conductivity of Yttria-Stabilized Hafnia Thin Films. ACS Applied Materials & Interfaces, 2012, 4, 200-204.	8.0	24
68	Correlation between Structure, Chemistry, and Dielectric Properties of Iron-Doped Gallium Oxide (Ga_{2â€“x}Fe_xO₃). Journal of Physical Chemistry C, 2018, 122, 27597-27607.	3.1	24
69	Role of A-site Ca and B-site Zr substitution in BaTiO3 lead-free compounds: Combined experimental and first principles density functional theoretical studies. Journal of Applied Physics, 2018, 123, .	2.5	24
70	Crystal Growth and Structureâ€“Property Optimization of Thermally Annealed Nanocrystalline Ga₂O₃ Films. Crystal Growth and Design, 2020, 20, 2893-2903.	3.0	24
71	Tunable Dielectric Properties of Nickel Ferrite Derived via Crystallographic Site Preferential Cation Substitution. Journal of Physical Chemistry C, 2022, 126, 9123-9134.	3.1	22
72	Oxidation and metal-insertion in molybdenite surfaces: evaluation of charge-transfer mechanisms and dynamics. Geochemical Transactions, 2008, 9, 8.	0.7	21

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73	Microstructure, AC impedance and DC electrical conductivity characteristics of NiFe2-xGdxO4 (x = 0,) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	21
74	Structure and thermal conductivity of yttria-stabilized hafnia ceramic coatings grown on nickel-based alloy. Ceramics International, 2012, 38, 2957-2961.	4.8	21
75	Effect of Wâ€“Ti target composition on the surface chemistry and electronic structure of WO3â€“TiO2 films made by reactive sputtering. Applied Surface Science, 2015, 353, 728-734.	6.1	21
76	Enhanced Energy Storage of Dielectric Nanocomposites at Elevated Temperatures. International Journal of Applied Ceramic Technology, 2016, 13, 125-132.	2.1	21
77	Effect of Ti doping on the crystallography, phase, surface/interface structure and optical band gap of Ga2O3 thin films. Journal of Materials Science, 2019, 54, 11526-11537.	3.7	21
78	Electronic Structure of Tungsten-Doped Î²-Ga₂O₃ Compounds. ECS Journal of Solid State Science and Technology, 2019, 8, Q3111-Q3115.	1.8	21
79	Effect of Titanium Induced Chemical Inhomogeneity on Crystal Structure, Electronic Structure, and Optical Properties of Wide Band Gap Ga₂O₃. Crystal Growth and Design, 2020, 20, 1422-1433.	3.0	21
80	Electronic structure and chemical bonding in transition-metal-mixed gallium oxide (Ga2O3) compounds. Journal of Physics and Chemistry of Solids, 2021, 157, 110174.	4.0	21
81	Structure and electrochemistry of thin-film oxides grown by laser-pulsed deposition. Ionics, 2001, 7, 165-171.	2.4	20
82	Spectroscopic Characterization of the Electronic Structure, Chemical Bonding, and Band Gap in Thermally Annealed Polycrystalline Ga₂O₃ Thin Films. ECS Journal of Solid State Science and Technology, 2019, 8, Q3249-Q3253.	1.8	20
83	Size- and Phase-Controlled Nanometer-Thick Î²-Ga₂O₃ Films with Green Photoluminescence for Optoelectronic Applications. ACS Applied Nano Materials, 2021, 4, 3331-3338.	5.0	20
84	Comparative microscopic and spectroscopic analysis of temperature-dependent growth of WO3 and W0.95Ti0.05O3 thin films. Journal of Materials Science, 2012, 47, 6593-6600.	3.7	19
85	Nitrogen-incorporation induced changes in the microstructure of nanocrystalline WO3 thin films. Thin Solid Films, 2011, 520, 1446-1450.	1.8	18
86	Polarization switching characteristics of 0.5BaTi0.8Zr0.2O3-0.5Ba0.7Ca0.3TiO3 lead free ferroelectric thin films by pulsed laser deposition. Journal of Applied Physics, 2014, 115, 154102.	2.5	18
87	Correlation between Crystal Structure, Surface/Interface Microstructure, and Electrical Properties of Nanocrystalline Niobium Thin Films. Nanomaterials, 2020, 10, 1287.	4.1	18
88	Interfacial Phase Modulation-Induced Structural Distortion, Band Gap Reduction, and Nonlinear Optical Activity in Tin-Incorporated Ga₂O₃. Journal of Physical Chemistry C, 2021, 125, 20468-20481.	3.1	18
89	Using Metallic Interlayers to Stabilize Abrupt, Epitaxial Metal-Metal Interfaces. Physical Review Letters, 2003, 90, 066101.	7.8	17
90	Correlation between phase and optical properties of yttrium-doped hafnium oxide nanocrystalline thin films. Optical Materials, 2013, 35, 1728-1734.	3.6	17

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91	Controlled optical properties via chemical composition tuning in molybdenum-incorporated Î²-Ga2O3 nanocrystalline films. Chemical Physics Letters, 2017, 684, 363-367.	2.6	17
92	Strong interaction between Au nanoparticles and porous polyurethane sponge enables efficient environmental catalysis with high reusability. Catalysis Today, 2020, 358, 246-253.	4.4	17
93	Plasma Electrolytic Oxidation Ceramic Coatings on Zirconium (Zr) and ZrAlloys: Part Iâ€"Growth Mechanisms, Microstructure, and Chemical Composition. Coatings, 2021, 11, 634.	2.6	16
94	Plasma Electrolytic Oxidation Ceramic Coatings on Zirconium (Zr) and Zr-Alloys: Part-II: Properties and Applications. Coatings, 2021, 11, 620.	2.6	16
95	Microstructureâ€Mechanical Property Correlation in Size Controlled Nanocrystalline Molybdenum Films. Advanced Engineering Materials, 2018, 20, 1800496.	3.5	15
96	Interplay between Solubility Limit, Structure, and Optical Properties of Tungsten-Doped Ga₂O₃ Compounds Synthesized by a Two-Step Calcination Process. Inorganic Chemistry, 2019, 58, 3707-3716.	4.0	15
97	Growth, characterization and performance of bulk and nanoengineered molybdenum oxides for electrochemical energy storage and conversion. Progress in Crystal Growth and Characterization of Materials, 2021, 67, 100533.	4.0	15
98	Optical absorption behaviour of vanadium pentoxide thin films. Advanced Materials for Optics and Electronics, 1997, 7, 225-231.	0.4	14
99	Molybdenum Incorporation Induced Enhancement in the Mechanical Properties of Gallium Oxide Films. Advanced Materials Interfaces, 2017, 4, 1700378.	3.7	14
100	Microstructure, mechanical and electrical properties of nanocrystalline W-Mo thin films. AIP Advances, 2017, 7, .	1.3	14
101	Fabrication, characterization and optimization of high conductivity and high quality nanocrystalline molybdenum thin films. Journal of Materials Science and Technology, 2019, 35, 2734-2741.	10.7	14
102	Microstructures in a Nb-Cr-V-W-Ta high entropy alloy during annealing. Journal of Materials Science and Technology, 2020, 53, 66-72.	10.7	14
103	Phase-Control-Enabled Enhancement in Hydrophilicity and Mechanical Toughness in Nanocrystalline Tungsten Oxide Films for Energy-Related Applications. ACS Applied Nano Materials, 2020, 3, 3264-3274.	5.0	14
104	Electronic Structure, Chemical Bonding, and Electrocatalytic Activity of Ba(Fe_{0.7}Ta_{0.3})O_{3âˆ'Î´} Compounds. ACS Applied Energy Materials, 2021, 4, 1313-1322.	5.1	14
105	Electron microscopy investigation of structural transformations in tungsten oxide (WO3) thin films. Physica Status Solidi A, 2005, 202, R108-R110.	1.7	13
106	Correlation between structural, ferroelectric, piezoelectric and dielectric properties of Ba0.7Ca0.3TiO3-xBaTi0.8Zr0.2O3 (xâ€¯=â€¯0.45, 0.55) ceramics. Ceramics International, 2018, 44, 20921-20928.	4.8	13
107	First-principles calculations of the electronic structure and magnetism of nanostructured <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:mn mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> microgranules and nanoparticles. Physical Review B, 2020, 102, .	3.2	13
108	Room temperature ferromagnetism in HfO2 films. Journal of Applied Physics, 2011, 109, 07C318.	2.5	12

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109	Structure and optical properties of iron oxide films prepared by a modified wet-chemical method. Ceramics International, 2013, 39, 4581-4587.	4.8	12
110	Synthesis of one-dimensional Ga 2 O 3 nanostructures via high-energy ball milling and annealing of GaN. Ceramics International, 2013, 39, 7223-7227.	4.8	12
111	Enhanced mechanical properties of W1âˆ’yMoyO3 nanocomposite thin films. Journal of Applied Physics, 2016, 120, .	2.5	12
112	Nanomechanical characterization of titanium incorporated gallium oxide nanocrystalline thin films. Materials Today Nano, 2018, 2, 7-14.	4.6	12
113	Optical constants of titanium-doped gallium oxide thin films. Optical Materials, 2019, 96, 109223.	3.6	12
114	Aluminum Doping and Nanostructuring Enabled Designing of Magnetically Recoverable Hexaferrite Catalysts. ACS Omega, 2022, 7, 6549-6559.	3.5	12
115	Effect of Thermochemical Synthetic Conditions on the Structure and Dielectric Properties of Ga_{1.9}Fe_{0.1}O₃ Compounds. Inorganic Chemistry, 2018, 57, 1029-1039.	4.0	11
116	DISPERSIVE OPTICAL PARAMETERS OFNi(100) CRYSTAL AND THERMALLY EVAPORATED NICKEL FILMS. Modern Physics Letters B, 2012, 26, 1150029.	1.9	10
117	Crystal Structure and Morphology of Nanocrystalline TiN Thin Films. Journal of Electronic Materials, 2012, 41, 3139-3144.	2.2	10
118	Enhanced magnetostrictive properties of nanocrystalline Dy3+ substituted Fe-rich Co0.8Fe2.2O4 for sensor applications. Journal of Applied Physics, 2017, 122, .	2.5	10
119	Phaseâ€Control Enabled Superior Mechanical and Electrical Properties of Nanocrystalline Tungstenâ€Molybdenum Thin Films. Advanced Engineering Materials, 2017, 19, 1700354.	3.5	10
120	An ab initio study of the elastic behavior of single crystal group (IV) diborides at elevated temperatures. Applied Physics Letters, 2010, 97, .	3.3	9
121	Controlled and enhanced dielectric properties of high-titanium containing Li Ti0.1Ni1â¿¿O via chemical composition-tailoring. Chemical Physics Letters, 2016, 649, 115-118.	2.6	9
122	Effect of bias induced microstructure on the mechanical properties of nanocrystalline zirconium tungsten nitride coatings. Surface and Coatings Technology, 2017, 313, 121-128.	4.8	9
123	Effect of sintering temperature on the chemical bonding, electronic structure and electrical transport properties of Î²-Ga1.9Fe0.1O3 compounds. Journal of Materials Science and Technology, 2021, 67, 135-144.	10.7	9
124	Controlled Phase Stabilization Enabled Tunable Optical Properties of Nanocrystalline GeO₂ Films. ACS Applied Electronic Materials, 2022, 4, 3115-3124.	4.3	9
125	Physical characterization of sputter-deposited amorphous tungsten oxynitride thin films. Thin Solid Films, 2015, 596, 160-166.	1.8	8
126	Toughness enhancement in zirconium-tungsten-nitride nanocrystalline hard coatings. AIP Advances, 2016, 6, .	1.3	8

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127	Microstructure tuning facilitated photo-efficiency enhancement and environmental benign nature of HfO2/Mo/HfO2 multilayer films. Solar Energy, 2018, 166, 146-158.	6.1	8
128	Nanoscale-Thick Thin Films of High-Density HfO₂ for Bulk-like Optical Responses. ACS Applied Nano Materials, 2021, 4, 10836-10844.	5.0	8
129	Excitation dependent and time resolved photoluminescence of Î²-Ga2O3, Î²-(Ga0.955Al0.045)2O3 and Î²-(Ga0.91In0.09)2O3 epitaxial layers grown by pulsed laser deposition. Journal of Luminescence, 2022, 248, 118960.	3.1	8
130	Effects of process parameters on the optical constants of highly textured V2O5 thin films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 423-427.	0.6	7
131	Nitrogen incorporation and composition facilitated tailoring of the optical constants and dispersion energy parameters of tungsten oxynitride films. Journal of Alloys and Compounds, 2016, 683, 292-301.	5.5	7
132	Structural, magnetic and ferroelectric properties of lead free piezoelectric 0.9(0.45Ba0.7Ca0.3TiO3-0.55BaTi0.8Zr0.2O3) and magnetostrictive 0.1(Co0.7Mn0.3Fe1.95Dy0.05O4) magnetoelectric particulate composite. Journal of Applied Physics, 2019, 126, .	2.5	7
133	Properties of sputter-deposited gallium oxide. , 2019, , 47-66.		7
134	High Temperature Physical and Chemical Stability and Oxidation Reaction Kinetics of Niâ€“Cr Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 4018-4028.	3.1	6
135	Examination of the Oxidation and Metalâ€“Oxide Layer Interface of a Crâ€“Nbâ€“Taâ€“Vâ€“W High Entropy Alloy at Elevated Temperatures. Advanced Engineering Materials, 2021, 23, 2100164.	3.5	6
136	Molybdenum-Suboxide Thin Films as Anode Layers in Planar Lithium Microbatteries. Electrochem, 2020, 1, 160-187.	3.3	6
137	Fabrication and Characterization of High-Quality Epitaxial Nanocolumnar Niobium Films with Abrupt Interfaces on YSZ(001). Journal of Physical Chemistry C, 2022, 126, 2098-2107.	3.1	6
138	Nitrogen Incorporation Induced Soft-to-Hard Transition Observed in the Mechanical Properties of Amorphous Niobium Oxide Films. Jom, 2019, 71, 3727-3733.	1.9	5
139	Microstructure, chemical inhomogeneity, and electronic properties of tin-incorporated Ga2O3 compounds. Journal of Materials Science, 2022, 57, 11170-11188.	3.7	5
140	Electronic behavior and impedance analysis of microcrystalline LiFePO4. Journal of Materials Science, 2013, 48, 5063-5070.	3.7	4
141	Analytical and Finite Element Analysis of Thermal Stresses in TiN Coatings. Mechanics of Advanced Materials and Structures, 2015, 22, 1024-1030.	2.6	4
142	Structural, Optical and Mechanical Properties of Nanocrystalline Molybdenum Thin Films Deposited under Variable Substrate Temperature. Materials, 2022, 15, 754.	2.9	4
143	Reaction Products from High Temperature Treatments of (LaxGd1â^'x)2Zr2O7 System and Volcanic Ash Powder Mixtures. Jom, 2022, 74, 2791-2808.	1.9	4
144	Structure and magnetic properties of nanophase-LiFe1.5P2O7. Journal of Applied Physics, 2009, 106, 064304.	2.5	3

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145	Chemical composition tuning induced variable and enhanced dielectric properties of polycrystalline Ga 2â€2 x W x O 3 ceramics. Engineering Reports, 2021, 3, e12300.	1.7	3
146	A Model for Studying the Biomechanical Effects of Varying Ratios of Collagen Types I and III on Cardiomyocytes. Cardiovascular Engineering and Technology, 2021, 12, 311-324.	1.6	3
147	Structural and mechanical properties of nanocrystalline Ga₂O₃ films made by pulsed laser deposition onto transparent quartz substrates. Nano Express, 2021, 2, 020006.	2.4	3
148	STRUCTURAL AND ELECTROCHEMICAL PROPERTIES OF MONOCLINIC AND ORTHORHOMBIC MoO₃ PHASES. , 2006, , .		2
149	Unravelling the sintering temperature-induced phase transformations in Ba(Fe0.7Ta0.3)O3-Î´ ceramics. Ceramics International, 2020, 46, 23257-23261.	4.8	2
150	Nanostructured Ferrites: Structure, Properties and Performance. , 2022, , 177-195.		2
151	Electrical transport mechanism in Al/V2O5/Al microdevices. Ionics, 2001, 7, 130-137.	2.4	1
152	Enhanced stability of hafnia based coatings in a hot gas environment. RSC Advances, 2014, 4, 8224.	3.6	1
153	Magnetic and electron spin resonance studies of W doped CoFe2O4 polycrystalline materials. AIP Advances, 2018, 8, 055801.	1.3	1
154	Effect of Interface Structure on the Hydrophobicity, Mechanical and Optical Properties of HfO2/Mo/HfO2 Multilayer Films. Jom, 2019, 71, 3711-3719.	1.9	1
155	Crystal Structure, Phase Stability, Microstructure, and Optical Properties of Transition Metal Incorporated Wide Band Gap Ga2O3. Jom, 2022, 74, 79.	1.9	1
156	Electrochemical Features of Li-Ni-Mn-Co Oxides. Materials Research Society Symposia Proceedings, 2006, 973, 1.	0.1	0
157	Surface structure and optical properties of nanostructured Y<inf>2</inf>O<inf>3</inf> films. , 2010, , .		0
158	Structure and Thermal Conductivity of Nanostructured Hafnia-Based Thermal Barrier Coating Grown on SS-403. Journal of Nanotechnology in Engineering and Medicine, 2013, 4, .	0.8	0
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