

Mohammad Mahbubur Rahman

List of Publications by Year in descending order

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57
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393982

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57
all docs

57
docs citations

57
times ranked

1412
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of high-performance ScS ₂ monolayer as cathode material: A DFT analysis. Solid State Communications, 2022, 352, 114828.	0.9	13
2	A holistic approach to optical characterizations of vacuum deposited Cu ₂ ZnSnS ₄ thin film coatings for solar absorbing layers. Journal of Alloys and Compounds, 2021, 859, 157830.	2.8	8
3	Surface modification and improvements of wicking properties and dyeability of grey jute-cotton blended fabrics using low-pressure glow discharge air plasma. Heliyon, 2021, 7, e07893.	1.4	8
4	Understanding the enhancement of the optical and electronic attributes of iodine-doped vacuum deposited tetramethylaniline (PPTMA) thin film coatings. Journal of Alloys and Compounds, 2021, 874, 159989.	2.8	4
5	Understanding the optical behaviours and the power conversion efficiency of novel organic dye and nanostructured TiO ₂ based integrated DSSCs. Solar Energy, 2021, 225, 129-147.	2.9	16
6	Very-few-layer graphene obtained from facile two-step shear exfoliation in aqueous solution. Chemical Engineering Science, 2021, 245, 116848.	1.9	10
7	Influence of the variation in the Hubbard parameter (U) on activation energies of CeO ₂ -catalysed reactions. Canadian Journal of Physics, 2020, 98, 385-389.	0.4	7
8	Extraction, optical properties, and aging studies of natural pigments of various flower plants. Heliyon, 2020, 6, e05104.	1.4	12
9	Sol-gel derived ITO-based bi-layer and tri-layer thin film coatings for organic solar cells applications. Applied Surface Science, 2020, 530, 147164.	3.1	19
10	Microwave exfoliated graphene-based materials for flexible solid-state supercapacitor. Journal of Molecular Structure, 2020, 1220, 128710.	1.8	23
11	Heat treatment effect on the structural, morphological, and optical properties of plasma polymerized furan-2-carbaldehyde thin films. Results in Physics, 2020, 16, 103014.	2.0	6
12	Investigation of aluminum doping on structural and optical characteristics of sol-gel assisted spin-coated nano-structured zinc oxide thin films. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	25
13	Biocompatibility study of multi-layered hydroxyapatite coatings synthesized on Ti-6Al-4V alloys by RF magnetron sputtering for prosthetic-orthopaedic implant applications. Applied Surface Science, 2019, 463, 292-299.	3.1	42
14	A first-principles study of the electronic, structural, and optical properties of CrN and Mo:CrN clusters. Ceramics International, 2019, 45, 17094-17102.	2.3	4
15	Synthesis and aging effect of plasma-polymerized 2-furancarboxaldehyde amorphous thin films. Materials Chemistry and Physics, 2019, 232, 209-220.	2.0	11
16	Surface structural features and optical analysis of nanostructured Cu-oxide thin film coatings coated via the sol-gel dip coating method. Ceramics International, 2019, 45, 12888-12894.	2.3	31
17	Nanorose-like ZnCo ₂ O ₄ coatings synthesized via sol-gel route: morphology, grain growth and DFT simulations. Journal of Sol-Gel Science and Technology, 2019, 90, 450-464.	1.1	3
18	Studies of annealing impact on the morphological, opto-dielectric and mechanical behaviors of molybdenum-doped CrN coatings. Thin Solid Films, 2019, 677, 119-129.	0.8	5

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19	A holistic analysis of surface, chemical bonding states and mechanical properties of sol-gel synthesized CoZn-oxide coatings complemented by finite element modeling. <i>Ceramics International</i> , 2019, 45, 10882-10898.	2.3	5
20	Graphene Nanosheets (GNs) Addition on the Palm Oil Fuel Ash (POFA) Based Geopolymer with KOH Activator. <i>Journal of Physics: Conference Series</i> , 2019, 1351, 012101.	0.3	3
21	Polyethylene glycol assisted facile sol-gel synthesis of lanthanum oxide nanoparticles: Structural characterizations and photoluminescence studies. <i>Ceramics International</i> , 2019, 45, 424-431.	2.3	20
22	Annealing effects on microstructural, optical, and mechanical properties of sputtered CrN thin film coatings: Experimental studies and finite element modeling. <i>Journal of Alloys and Compounds</i> , 2018, 750, 451-464.	2.8	35
23	Structural, morphological, and optical characterizations of Mo, CrN and Mo:CrN sputtered coatings for potential solar selective applications. <i>Applied Surface Science</i> , 2018, 440, 1001-1010.	3.1	18
24	Structural, optical, magnetic and antibacterial properties of Nd doped NiO nanoparticles prepared by co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2018, 742, 421-429.	2.8	90
25	Solar selective performance of metal nitride/oxynitride based magnetron sputtered thin film coatings: a comprehensive review. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 033001.	1.0	18
26	Thermo-mechanical properties of cubic lanthanide oxides. <i>Thin Solid Films</i> , 2018, 653, 37-48.	0.8	10
27	Understanding the impacts of Al ³⁺ -substitutions on the enhancement of magnetic, dielectric and electrical behaviors of ceramic processed nickel-zinc mixed ferrites: FTIR assisted studies. <i>Materials Research Bulletin</i> , 2018, 97, 444-451.	2.7	22
28	Influence of calcination on the sol-gel synthesis of lanthanum oxide nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	46
29	Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. <i>Ceramics International</i> , 2018, 44, 15274-15280.	2.3	3
30	Influence of DC magnetron sputtering reaction gas on structural and optical characteristics of Ce-oxide thin films. <i>Ceramics International</i> , 2018, 44, 16450-16458.	2.3	17
31	Conductive composites of tapioca based bioplastic and electrochemical-mechanical liquid exfoliation (emle) graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 345, 012026.	0.3	5
32	Structural and optical characteristics of pre- and post-annealed sol-gel derived CoCu-oxide coatings. <i>Journal of Alloys and Compounds</i> , 2017, 701, 222-235.	2.8	12
33	Experimental and predicted mechanical properties of Cr _x Al _{1-x} N thin films, at high temperatures, incorporating in situ synchrotron radiation X-ray diffraction and computational modelling. <i>RSC Advances</i> , 2017, 7, 22094-22104.	1.7	16
34	Improving the optoelectronic properties of titanium-doped indium tin oxide thin films. <i>Semiconductor Science and Technology</i> , 2017, 32, 065011.	1.0	14
35	Probing the effects of thermal treatment on the electronic structure and mechanical properties of Ti-doped ITO thin films. <i>Journal of Alloys and Compounds</i> , 2017, 721, 333-346.	2.8	16
36	Electrodeposition of Polypyrrole and Reduced Graphene Oxide onto Carbon Bundle Fibre as Electrode for Supercapacitor. <i>Nanoscale Research Letters</i> , 2017, 12, 246.	3.1	79

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37	Investigation of the post-annealing electromagnetic response of Cu-Co oxide coatings via optical measurement and computational modelling. RSC Advances, 2017, 7, 16826-16835.	1.7	27
38	Structural, morphological, compositional and optical studies of plasma polymerized 2-furaldehyde amorphous thin films. Applied Surface Science, 2017, 423, 983-994.	3.1	21
39	Understanding the shrinkage of optical absorption edges of nanostructured Cd-Zn sulphide films for photothermal applications. Applied Surface Science, 2017, 392, 854-862.	3.1	33
40	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti _x M _{1-x} N _y films. RSC Advances, 2016, 6, 36373-36383.	1.7	34
41	Understanding the charge carrier conduction mechanisms of plasma-polymerized 2-furaldehyde thin films via DC electrical studies. Thin Solid Films, 2016, 609, 35-41.	0.8	15
42	Structural, optical, and mechanical properties of cobalt copper oxide coatings synthesized from low concentrations of sol-gel process. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3205-3213.	0.8	8
43	Structural Thermal Stability of Graphene Oxide-Doped Copper-Cobalt Oxide Coatings as a Solar Selective Surface. Journal of Materials Science and Technology, 2016, 32, 1179-1191.	5.6	24
44	NEXAFS N K -edge study of the bonding structure on Al/Si doped sputtered CrN coatings. Journal of Alloys and Compounds, 2016, 661, 268-273.	2.8	13
45	Effects of annealing temperatures on the morphological, mechanical, surface chemical bonding, and solar selectivity properties of sputtered TiAlSiN thin films. Journal of Alloys and Compounds, 2016, 671, 254-266.	2.8	36
46	Towards Urban City with Sustainable Buildings: A Model for Dhaka City, Bangladesh. Environment and Urbanization ASIA, 2014, 5, 119-130.	0.9	8
47	Tailoring the physicochemical and mechanical properties of optical copper-cobalt oxide thin films through annealing treatment. Surface and Coatings Technology, 2014, 239, 212-221.	2.2	40
48	Understanding Local Bonding Structures of Ni-Doped Chromium Nitride Coatings through Synchrotron Radiation NEXAFS Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 18573-18579.	1.5	13
49	Optical properties and thermal durability of copper cobalt oxide thin film coatings with integrated silica antireflection layer. Ceramics International, 2014, 40, 16569-16575.	2.3	26
50	Review of Sol-Gel Derived Mixed Metal Oxide Thin Film Coatings with the Addition of Carbon Materials for Selective Surface Applications. Journal of Advanced Physics, 2014, 3, 179-193.	0.4	19
51	Surface Electronic Structure and Mechanical Characteristics of Copper-Cobalt Oxide Thin Film Coatings: Soft X-ray Synchrotron Radiation Spectroscopic Analyses and Modeling. Journal of Physical Chemistry C, 2013, 117, 16457-16467.	1.5	35
52	Complex permeability of Fe-deficient Ni-Cu-Zn ferrites. Journal of Alloys and Compounds, 2013, 548, 208-215.	2.8	46
53	Near-edge X-ray absorption fine structure studies of Cr _{1-x} M _x N coatings. Journal of Alloys and Compounds, 2013, 578, 362-368.	2.8	12
54	Solar absorptance of copper-cobalt oxide thin film coatings with nano-size, grain-like morphology: Optimization and synchrotron radiation XPS studies. Applied Surface Science, 2013, 275, 127-135.	3.1	168

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55	Order-Disorder Phase Transition and Lattice Parameter of Ni-Pt Alloys. Journal of Advanced Physics, 2013, 2, 29-35.	0.4	1
56	Investigation of magnetic, dielectric and electrical properties of Ba-hexaferrites. Indian Journal of Physics, 2012, 86, 1065-1072.	0.9	10
57	Magnetic and Dielectric Properties of M-Type Sr-Hexaferrites with the Addition of Calcium Oxide and Silicon-Di-Oxide. Journal of Advanced Physics, 2012, 1, 136-139.	0.4	0