## Mohammad Mahbubur Rahman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Structural, optical, magnetic and antibacterial properties of Nd doped NiO nanoparticles prepared by co-precipitation method. Journal of Alloys and Compounds, 2018, 742, 421-429.	2.8	90
3	Electrodeposition of Polypyrrole and Reduced Graphene Oxide onto Carbon Bundle Fibre as Electrode for Supercapacitor. Nanoscale Research Letters, 2017, 12, 246.	3.1	79
4	Complex permeability of Fe-deficient Ni–Cu–Zn ferrites. Journal of Alloys and Compounds, 2013, 548, 208-215.	2.8	46
5	Influence of calcination on the sol–gel synthesis of lanthanum oxide nanoparticles. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	46
6	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
7	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
8	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
9	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
10	Annealing effects on microstructural, optical, and mechanical properties of sputtered CrN thin film coatings: Experimental studies and finite element modeling. Journal of Alloys and Compounds, 2018, 750, 451-464.	2.8	35
11	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti <sub>x</sub> M <sub>1â^'xâ^'y</sub> N <sub>y</sub> films. RSC Advances, 2016, 6, 36373-36383.	1.7	34
12	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
13	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
14	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
15	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
16	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
17	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
18	Microwave exfoliated graphene-based materials for flexible solid-state supercapacitor. Journal of Molecular Structure, 2020, 1220, 128710.	1.8	23

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19	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. Materials Research Bulletin, 2018, 97, 444-451.	2.7	22
20	Structural, morphological, compositional and optical studies of plasma polymerized 2-furaldehyde amorphous thin films. Applied Surface Science, 2017, 423, 983-994.	3.1	21
21	Polyethylene glycol assisted facile sol-gel synthesis of lanthanum oxide nanoparticles: Structural characterizations and photoluminescence studies. Ceramics International, 2019, 45, 424-431.	2.3	20
22	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
23	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
24	Structural, morphological, and optical characterizations of Mo, CrN and Mo:CrN sputtered coatings for potential solar selective applications. Applied Surface Science, 2018, 440, 1001-1010.	3.1	18
25	Solar selective performance of metal nitride/oxynitride based magnetron sputtered thin film coatings: a comprehensive review. Journal of Optics (United Kingdom), 2018, 20, 033001.	1.0	18
26	Influence of DC magnetron sputtering reaction gas on structural and optical characteristics of Ce-oxide thin films. Ceramics International, 2018, 44, 16450-16458.	2.3	17
27	Experimental and predicted mechanical properties of Cr <sub>1â^'x</sub> Al <sub>x</sub> N thin films, at high temperatures, incorporating in situ synchrotron radiation X-ray diffraction and computational modelling. RSC Advances, 2017, 7, 22094-22104.	1.7	16
28	Probing the effects of thermal treatment on the electronic structure and mechanical properties of Ti-doped ITO thin films. Journal of Alloys and Compounds, 2017, 721, 333-346.	2.8	16
29	Understanding the optical behaviours and the power conversion efficiency of novel organic dye and nanostructured TiO2 based integrated DSSCs. Solar Energy, 2021, 225, 129-147.	2.9	16
30	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
31	Improving the optoelectronic properties of titanium-doped indium tin oxide thin films. Semiconductor Science and Technology, 2017, 32, 065011.	1.0	14
32	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
33	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
34	Development of high-performance ScS2 monolayer as cathode material: A DFT analysis. Solid State Communications, 2022, 352, 114828.	0.9	13
35	Near-edge X-ray absorption fine structure studies of Cr1â^'xMxN coatings. Journal of Alloys and Compounds, 2013, 578, 362-368.	2.8	12
36	Structural and optical characteristics of pre- and post-annealed sol-gel derived CoCu-oxide coatings. Journal of Alloys and Compounds, 2017, 701, 222-235.	2.8	12

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37	Extraction, optical properties, and aging studies of natural pigments of various flower plants. Heliyon, 2020, 6, e05104.	1.4	12
38	Synthesis and aging effect of plasma-polymerized 2-furancarboxaldehyde amorphous thin films. Materials Chemistry and Physics, 2019, 232, 209-220.	2.0	11
39	Investigation of magnetic, dielectric and electrical properties of Ba-hexaferrites. Indian Journal of Physics, 2012, 86, 1065-1072.	0.9	10
40	Thermo-mechanical properties of cubic lanthanide oxides. Thin Solid Films, 2018, 653, 37-48.	0.8	10
41	Very-few-layer graphene obtained from facile two-step shear exfoliation in aqueous solution. Chemical Engineering Science, 2021, 245, 116848.	1.9	10
42	Towards Urban City with Sustainable Buildings: A Model for Dhaka City, Bangladesh. Environment and Urbanization ASIA, 2014, 5, 119-130.	0.9	8
43	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
44	A holistic approach to optical characterizations of vacuum deposited Cu2ZnSnS4 thin film coatings for solar absorbing layers. Journal of Alloys and Compounds, 2021, 859, 157830.	2.8	8
45	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
46	Influence of the variation in the Hubbard parameter ( <i>U</i> ) on activation energies of CeO <sub>2</sub> -catalysed reactions. Canadian Journal of Physics, 2020, 98, 385-389.	0.4	7
47	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
48	Conductive composites of tapioca based bioplastic and electrochemical-mechanical liquid exfoliation (emle) graphene. IOP Conference Series: Materials Science and Engineering, 2018, 345, 012026.	0.3	5
49	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
50	A holistic analysis of surface, chemical bonding states and mechanical properties of sol-gel synthesized CoZn-oxide coatings complemented by finite element modeling. Ceramics International, 2019, 45, 10882-10898.	2.3	5
51	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
52	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
53	Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. Ceramics International, 2018, 44, 15274-15280.	2.3	3
54	Nanorose-like ZnCo2O4 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

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55	Graphene Nanosheets (GNs) Addition on the Palm Oil Fuel Ash (POFA) Based Geopolymer with KOH Activator. Journal of Physics: Conference Series, 2019, 1351, 012101.	0.3	3
56	Order-Disorder Phase Transition and Lattice Parameter of Ni–Pt Alloys. Journal of Advanced Physics, 2013, 2, 29-35.	0.4	1
57	Magnetic and Dielectric Properties of <1>M 1 -Type Sr-Hexaferrites with the Addition of Calcium Oxide and Silicon-Di-Oxide. Journal of Advanced Physics, 2012, 1, 136-139.	0.4	0