A M Alsaad

List of Publications by Year in descending order

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304743 434195 1,216 63 22 31 citations h-index g-index papers 65 65 65 641 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Optical band gap and refractive index dispersion parameters of boron-doped ZnO thin films: A novel derived mathematical model from the experimental transmission spectra. Optik, 2020, 211, 164641.	2.9	94
2	Optical characterizations of PMMA/metal oxide nanoparticles thin films: bandgap engineering using a novel derived model. Heliyon, 2021, 7, e05952.	3.2	71
3	Optical and structural investigations of dip-synthesized boron-doped ZnO-seeded platforms for ZnO nanostructures. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	61
4	Structural, Optoelectrical, Linear, and Nonlinear Optical Characterizations of Dip-Synthesized Undoped ZnO and Group III Elements (B, Al, Ga, and In)-Doped ZnO Thin Films. Crystals, 2020, 10, 252.	2.2	57
5	Optical, Structural, and Crystal Defects Characterizations of Dip Synthesized (Fe-Ni) Co-Doped ZnO Thin Films. Materials, 2020, 13, 1737.	2.9	49
6	Structural, Electronic and Optical Characterization of ZnO Thin Film-Seeded Platforms for ZnO Nanostructures: Solâ€"Gel Method Versus Ab Initio Calculations. Journal of Electronic Materials, 2019, 48, 5028-5038.	2.2	48
7	Synthesis and Characterization of Polymeric (PMMA-PVA) Hybrid Thin Films Doped with TiO2 Nanoparticles Using Dip-Coating Technique. Crystals, 2021, 11, 99.	2.2	41
8	Synthesis, Crystallography, Microstructure, Crystal Defects, Optical and Optoelectronic Properties of ZnO:CeO2 Mixed Oxide Thin Films. Photonics, 2020, 7, 112.	2.0	38
9	Properties of GaNâ^•ScNandInNâ^•ScNsuperlattices from first principles. Physical Review B, 2005, 72, .	3.2	37
10	Piezoelectricity of ordered (ScxGa1-xN) alloys from first principles. European Physical Journal B, 2006, 54, 151-156.	1.5	32
11	A novel optical model of the experimental transmission spectra of nanocomposite PVC-PS hybrid thin films doped with silica nanoparticles. Heliyon, 2020, 6, e04177.	3.2	32
12	Spectroscopic characterization of optical and thermal properties of (PMMA-PVA) hybrid thin films doped with SiO2 nanoparticles. Results in Physics, 2020, 19, 103463.	4.1	31
13	Synthesis and characterization of ZnO NPs-doped PMMA-BDK-MR polymer-coated thin films with UV curing for optical data storage applications. Polymer Bulletin, 2021, 78, 1189-1211.	3.3	31
14	Optical properties of hydrophobic ZnO nano-structure based on antireflective coatings of ZnO/TiO/SiO thin films $\hat{a} \in Physica B$: Condensed Matter, 2020, 593, 412263.	2.7	31
15	Optical properties of transparent PMMA-PS/ZnO NPs polymeric nanocomposite films: UV-Shielding applications. Materials Research Express, 2019, 6, 126446.	1.6	30
16	Structural, electronic and magnetic properties of Fe, Co, Mn-doped GaN and ZnO diluted magnetic semiconductors. Physica B: Condensed Matter, 2014, 440, 1-9.	2.7	28
17	Measurement and ab initio Investigation of Structural, Electronic, Optical, and Mechanical Properties of Sputtered Aluminum Nitride Thin Films. Frontiers in Physics, 2020, 8, .	2.1	28
	Reexamination of phenomenological two-photon exchange corrections to the proton form factors		

Reexamination of phenomenological two-photon exchange corrections to the proton form factors and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mi> <mml:mi> <mml:mi> <mml:mo> </mml:msup> <mml:mi> <mml:mi> <mml:mi> <mml:mo> </mml:mo> </mml:msup> <mml:mi> <m

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19	Optical, structural, and morphological characterizations of synthesized (Cd–Ni) co-doped ZnO thin films. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	25
20	Synthesis of Optically Tunable and Thermally Stable PMMA–PVA/CuO NPs Hybrid Nanocomposite Thin Films. Polymers, 2021, 13, 1715.	4. 5	24
21	Computational and experimental characterizations of annealed Cu2ZnSnS4 thin films. Heliyon, 2022, 8, e08683.	3.2	24
22	Isostructural phase transitions in GaNâ^•ScNandInNâ^•ScNsuperlattices. Physical Review B, 2005, 71, .	3.2	23
23	Synthesis, Optical, Chemical and Thermal Characterizations of PMMA-PS/CeO2 Nanoparticles Thin Film. Polymers, 2021, 13, 1158.	4.5	22
24	Flavor decomposition of the nucleon electromagnetic form factors at low <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2<td>n> 2/9nml:r</td><td>നടമ്മത> </td></mml:mn></mml:msup></mml:math>	n> 2/9 nml:r	നടമ്മത>
25	Optical properties of ZnO related to the dc sputtering power. European Physical Journal B, 2006, 52, 41-46.	1.5	19
26	Synthesis and characterization of as-grown doped polymerized (PMMA-PVA)/ZnO NPs hybrid thin films. Polymer Bulletin, 2022, 79, 2019-2040.	3.3	19
27	Empirical parametrization of the two-photon-exchange effect contributions to the electron-proton elastic scattering cross section. Physical Review C, 2011, 83, .	2.9	18
28	Characterization of As-prepared PVA-PEO/ZnO-Al2O3-NPs hybrid nanocomposite thin films. Polymer Bulletin, 2022, 79, 9881-9905.	3.3	17
29	New Insight on Photoisomerization Kinetics of Photo-Switchable Thin Films Based on Azobenzene/Graphene Hybrid Additives in Polyethylene Oxide. Polymers, 2020, 12, 2954.	4. 5	16
30	Electronic structure, magnetic and optic properties of spinel compound <i>NiFe₂O₄ </i> . Semiconductor Science and Technology, 2020, 35, 095013.	2.0	15
31	Crystallographic, vibrational modes and optical properties data of α-DIPAB crystal. Data in Brief, 2018, 16, 667-684.	1.0	14
32	Structural, electronic and magnetic properties of the ordered binary FePt, MnPt, and CrPt3 alloys. Heliyon, 2020, 6, e03545.	3.2	14
33	Kinematics of Photoisomerization Processes of PMMA-BDK-MR Polymer Composite Thin Films. Polymers, 2020, 12, 1275.	4.5	13
34	Optical properties and photo-isomerization processes of PMMAâ€"BDKâ€"MR nanocomposite thin films doped by silica nanoparticles. Polymer Bulletin, 2021, 78, 3425-3441.	3.3	13
35	Optical and piezoelectric anomalies of ordered (Sc, Ga) N and (Sc, In) N ternaries. European Physical Journal B, 2008, 65, 65-77.	1.5	12
36	Synthesis, optoelectronic and thermal characterization of PMMA-MWCNTs nanocomposite thin films incorporated by ZrO2 NPs. Journal of Materials Science: Materials in Electronics, 2022, 33, 5087-5104.	2.2	12

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37	A first-principles-derived method for computing the piezoelectric coefficients of complex semiconductor Sc1â^'xGaxN alloys. Physica B: Condensed Matter, 2008, 403, 4174-4181.	2.7	10
38	Adhesive B-doped DLC films on biomedical alloys used for bone fixation. Bulletin of Materials Science, 2007, 30, 301-308.	1.7	9
39	The structural, optical, thermal, and electrical properties of synthesized PEO/GO thin films. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	9
40	Electrical and thermal characterizations of synthesized composite films based on polyethylene oxide (PEO) doped by aluminium chloride (AlCl3). Polymer Bulletin, 2023, 80, 5433-5446.	3.3	8
41	Magnetic and structural properties of Cr-based diluted magnetic semiconductors and alloys. Physica B: Condensed Matter, 2010, 405, 951-954.	2.7	6
42	Effect of bromine deficiency on the lattice dynamics and dielectric properties of alpha-phase diisopropylammonium bromide molecular crystals. Journal of Physics and Chemistry of Solids, 2018, 113, 82-85.	4.0	6
43	First-Principles Calculation of Physical Tensors of $\hat{l}\pm$ -Diisopropylammonium Bromide ($\hat{l}\pm$ -DIPAB) Molecular Ferroelectric Crystal. Frontiers in Physics, 2019, 7, .	2.1	6
44	Doping mechanism and optical properties of as-prepared polyvinyl chloride (PVC) doped by iodine thin films. Polymer Bulletin, 2022, 79, 10803-10822.	3.3	6
45	Structural and magnetic properties of MnN and ScN binaries and their ScN:Mn diluted magnetic semiconductors and MnxSc1a^'xN alloys. Physica B: Condensed Matter, 2010, 405, 1408-1414.	2.7	5
46	Comparative study of magnetic properties of dilute Fe doped with transition magnetic ions and GaN, InN doped with rare-earth magnetic ions. Physica B: Condensed Matter, 2014, 432, 77-83.	2.7	5
47	Synthesis and structural, crystallographic, electronic, chemical and optical characterizations of alpha-diisopropylammonium bromide ($\hat{l}\pm$ -DIPAB) thin films. Optik, 2021, 241, 167014.	2.9	5
48	Cellulose acetate membranes treated with titanium dioxide and cerium dioxide nanoparticles and their nanocomposites for enhanced photocatalytic degradation activity of methylene blue. Journal of Materials Science: Materials in Electronics, 2022, 33, 11420-11433.	2.2	5
49	Structural and electronic properties of Diisopropylammonium bromide molecular ferroelectric crystal. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012017.	0.6	4
50	Suppression of hard two-photon-exchange contributions to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>R</mml:mi><mml:mrow><mml:relastic .<="" 101,="" 2020,="" a="" approach.="" c,="" cross-section="" phenomenological="" physical="" ratios:="" review="" scattering="" td=""><td>nsup₂₃9:mm</td><td>l:m4>e</td></mml:relastic></mml:mrow></mml:msub></mml:math>	nsu p₂ ₃9:mm	l:m4>e
51	Effect of bromine deficiency on large elastic moduli of alpha-phase diisopropyl ammonium bromide (α-DIPAB) molecular crystals. European Physical Journal B, 2020, 93, 1.	1.5	4
52	Investigation of the doping mechanism and electron transition bands of PEO/KMnO4 complex composite films. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	4
53	Effects of disorder on the Curie temperature of GaMnN, GaCrN, InCrN, and InMnN diluted magnetic semiconductors. Physica B: Condensed Matter, 2011, 406, 4233-4239.	2.7	3
54	Magnetic properties of (Ga,Mn)N ternaries and structural, electronic, and magnetic properties of cation-mixed (Ga,Mn)(As,N) and (In,Mn)(As,N) quaternaries. Physica B: Condensed Matter, 2012, 407, 2650-2658.	2.7	3

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55	Structural phase transitions and piezoelectric anomalies in ordered ScO·5GaO·5N alloys. Bulletin of Materials Science, 2007, 30, 407-413.	1.7	2
56	Computational investigation of the valid valence state contribution in calculating the electronic stopping power of a proton in bulk Al within the linear response approach. Canadian Journal of Physics, 2020, 98, 167-171.	1.1	2
57	Synthesis and Characterization of Thin Films Based on Azobenzene Derivative Anchored to CeO 2 Nanoparticle for Photoswitching Applications. Photochemistry and Photobiology, 2021, , .	2.5	2
58	Optical, chemical, electrical, and morphological properties of PEO–Nb-doped KMnO4 thin films. Journal of Materials Science: Materials in Electronics, 2022, 33, 10585-10595.	2.2	2
59	Optical, electronic, and structural properties of different nanostructured ZnO morphologies. European Physical Journal Plus, 2022, 137, .	2.6	2
60	Effect of Iodine Filler on Photoisomerization Kinetics of Photo-Switchable Thin Films Based on PEO-BDK-MR. Polymers, 2021, 13, 841.	4.5	1
61	Extraction of elastic scattering cross-section ratio <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>R</mml:mi><mml:mrow><mml:ms <mml:math="" from="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>e</mml:mi><mml:mi></mml:mi></mml:mrow></mml:ms></mml:mrow></mml:msub></mml:math>	2.9	1
62	New extraction of the math . Physical Review C, 2021, 103, xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub><mml:mi>R</mml:mi><mml:mrow><mml:ms .<="" 103,="" 2021,="" a="" approach.="" based="" c,="" correction="" cross-section="" elastic="" hard="" on="" phenomenological="" physical="" ratio="" review="" scattering="" simplified="" td="" two-photon-exchange=""><td></td><td></td></mml:ms></mml:mrow></mml:msub>		
63	Theoretical and Experimental Overview of Structural, Dielectric, Crystallographic, Electronic, Optical, and Physical Tensors of α-DIPAB and Iodine-Doped α-DIPAB Molecular Ferroelectric Crystals. Journal of Electronic Materials, 2020, 49, 7112-7132.	2.2	O