A M Alsaad

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	Synthesis and characterization of as-grown doped polymerized (PMMA-PVA)/ZnO NPs hybrid thin films. Polymer Bulletin, 2022, 79, 2019-2040.	3.3	19
3	Characterization of As-prepared PVA-PEO/ZnO-Al2O3-NPs hybrid nanocomposite thin films. Polymer Bulletin, 2022, 79, 9881-9905.	3.3	17
4	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
5	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
6	Computational and experimental characterizations of annealed Cu2ZnSnS4 thin films. Heliyon, 2022, 8, e08683.	3.2	24
7	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
8	Optical, chemical, electrical, and morphological properties of PEOâ€"Nb-doped KMnO4 thin films. Journal of Materials Science: Materials in Electronics, 2022, 33, 10585-10595.	2.2	2
9	Optical, electronic, and structural properties of different nanostructured ZnO morphologies. European Physical Journal Plus, 2022, 137, .	2.6	2
10	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
11	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
12	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
13	Optical characterizations of PMMA/metal oxide nanoparticles thin films: bandgap engineering using a novel derived model. Heliyon, 2021, 7, e05952.	3.2	71
14	Effect of Iodine Filler on Photoisomerization Kinetics of Photo-Switchable Thin Films Based on PEO-BDK-MR. Polymers, 2021, 13, 841.	4.5	1
15	Synthesis, Optical, Chemical and Thermal Characterizations of PMMA-PS/CeO2 Nanoparticles Thin Film. Polymers, 2021, 13, 1158.	4.5	22
16	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:msup><mml:mi>e</mml:r from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>e</mml:mi><mml:mi>p</mml:mi></mml:mrow></mml:ma elastic scattering experimental data. Physical Review C, 2021, 103, .	2.9	1
17	Synthesis of Optically Tunable and Thermally Stable PMMAâ€"PVA/CuO NPs Hybrid Nanocomposite Thin Films. Polymers, 2021, 13, 1715.	4.5	24
18	New extraction of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>R</mml:mi><mml:mrow><mml:msup><mml:mi>e</mml:r elastic scattering cross-section ratio based on a simplified phenomenological hard two-photon-exchange correction approach. Physical Review C, 2021, 103, .	2.9	1

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19	Synthesis and structural, crystallographic, electronic, chemical and optical characterizations of alpha-diisopropylammonium bromide (Î±-DIPAB) thin films. Optik, 2021, 241, 167014.	2.9	5
20	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
21	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
22	Optical, structural, and morphological characterizations of synthesized (Cdâ€"Ni) co-doped ZnO thin films. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	25
23	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
24	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
25	Theoretical and Experimental Overview of Structural, Dielectric, Crystallographic, Electronic, Optical, and Physical Tensors of Î±-DIPAB and Iodine-Doped Î±-DIPAB Molecular Ferroelectric Crystals. Journal of Electronic Materials, 2020, 49, 7112-7132.	2.2	0
26	Synthesis, Crystallography, Microstructure, Crystal Defects, Optical and Optoelectronic Properties of ZnO:CeO2 Mixed Oxide Thin Films. Photonics, 2020, 7, 112.	2.0	38
27	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
28	Electronic structure, magnetic and optic properties of spinel compound <i>NiFe₂O₄ </i>. Semiconductor Science and Technology, 2020, 35, 095013.	2.0	15
29	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:msup><mml:mi>e</mml elastic scattering cross-section ratios: A phenomenological approach. Physical Review C, 2020, 101, .	2.9	4
30	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
31	Structural, electronic and magnetic properties of the ordered binary FePt, MnPt, and CrPt3 alloys. Heliyon, 2020, 6, e03545.	3.2	14
32	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
33	Kinematics of Photoisomerization Processes of PMMA-BDK-MR Polymer Composite Thin Films. Polymers, 2020, 12, 1275.	4.5	13
34	Effect of bromine deficiency on large elastic moduli of alpha-phase diisopropyl ammonium bromide (Î±-DIPAB) molecular crystals. European Physical Journal B, 2020, 93, 1.	1.5	4
35	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
36	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

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37	Optical, Structural, and Crystal Defects Characterizations of Dip Synthesized (Fe-Ni) Co-Doped ZnO Thin Films. Materials, 2020, 13, 1737.	2.9	49
38	Optical properties of hydrophobic ZnO nano-structure based on antireflective coatings of ZnO/TiO/SiO thin films â€• Physica B: Condensed Matter, 2020, 593, 412263.	2.7	31
39	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
40	First-Principles Calculation of Physical Tensors of Î±-Diisopropylammonium Bromide (Î±-DIPAB) Molecular Ferroelectric Crystal. Frontiers in Physics, 2019, 7, .	2.1	6
41	Optical properties of transparent PMMA-PS/ZnO NPs polymeric nanocomposite films: UV-Shielding applications. Materials Research Express, 2019, 6, 126446.	1.6	30
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	Crystallographic, vibrational modes and optical properties data of Î±-DIPAB crystal. Data in Brief, 2018, 16, 667-684.	1.0	14
44	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
45	Structural and electronic properties of Diisopropylammonium bromide molecular ferroelectric crystal. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012017.	0.6	4
46	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</mml:mn></mml:msup></mml:m Physical Review C, 2015, 91, .	2.9	20
47	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
48	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
49	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
50	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:msup><mml:mi>e</mml:mi><mml:mo>Â±</mml:mo></mml:msup><mml:mi>p</mml:mi></mml:mr Physical Review C, 2011, 84, .	2.9	27
51	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
52	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
53	Structural and magnetic properties of MnN and ScN binaries and their ScN:Mn diluted magnetic semiconductors and MnxSc1â^'xN alloys. Physica B: Condensed Matter, 2010, 405, 1408-1414.	2.7	5
54	Magnetic and structural properties of Cr-based diluted magnetic semiconductors and alloys. Physica B: Condensed Matter, 2010, 405, 951-954.	2.7	6

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55	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
56	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
57	Adhesive B-doped DLC films on biomedical alloys used for bone fixation. Bulletin of Materials Science, 2007, 30, 301-308.	1.7	9
58	Structural phase transitions and piezoelectric anomalies in ordered Sc0Â·5Ga0Â·5N alloys. Bulletin of Materials Science, 2007, 30, 407-413.	1.7	2
59	Optical properties of ZnO related to the dc sputtering power. European Physical Journal B, 2006, 52, 41-46.	1.5	19
60	Piezoelectricity of ordered (ScxGa1-xN) alloys from first principles. European Physical Journal B, 2006, 54, 151-156.	1.5	32
61	Isostructural phase transitions inGaNâˆ•ScNandInNâˆ•ScNsuperlattices. Physical Review B, 2005, 71, .	3.2	23
62	Properties ofGaNâˆ•ScNandInNâˆ•ScNsuperlattices from first principles. Physical Review B, 2005, 72, .	3.2	37
63	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