

Essam R Shaaban

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147 papers	2,854 citations	31 h-index	44 g-index
153 ext. papers	3,438 ext. citations	3.2 avg, IF	5.81 L-index

#	Paper	IF	Citations
147	Thermal pyrolysis and kinetic analysis of a Zn_xCo_{1-x} ZIF-8 metal-organic framework for recent applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022 , 32, 831	3.2	0
146	Influential role of CdS film thickness in improving CdS/CdTe junction performance for solar cells: structural, optical, and electrical characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 4051	2.1	1
145	The influential role of ITO heat treatment on improving the performance of solar cell n-ITO/p-Si junction: structural, optical, and electrical characterizations. <i>Materials Today Communications</i> , 2022 , 103272	2.5	0
144	Determination of optical bandgap energy and optical characteristics of $Cd_{30}Se_{50}S_{20}$ thin film at various thicknesses. <i>Optics and Laser Technology</i> , 2022 , 148, 107770	4.2	4
143	Extraction of thermal and optical parameters for $As_{25}Se_{75}$ thin films according to phase-change pathways. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125620	4.4	1
142	Adapting the structural, optical and thermoelectrical properties of thermally annealed silver selenide (Ag_2Se) thin films for improving the photovoltaic characteristics of the fabricated n- Ag_2Se/p -CdTe solar cells. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163374	5.7	4
141	Thermal analysis and non-isothermal crystallization kinetic of PET/UiO-66 nanocomposite. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 3492-3501	5.5	0
140	Thermal Analysis of a Metal-Organic Framework Zn_xCo -ZIF-8 for Recent Applications. <i>Polymers</i> , 2021 , 13,	4.5	3
139	Effective role of temperature in improving the structural, optical and photovoltaic characteristics for n- $Zn_{0.5}Cd_{0.5}Te/p$ -CdTe solar cells. <i>Optical Materials</i> , 2021 , 111746	3.3	1
138	Tunability of structural, optical, and electrical properties of pristine MnSe thin film by gradually changing temperature for optoelectronic applications. <i>Physica B: Condensed Matter</i> , 2021 , 413600	2.8	2
137	Tuning structural, optical, electrical and photovoltaic characteristics of n-type $Cd_{1-x}S_x$ layers for optimizing the performance of n-(CdS:Sb)/p-Si solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
136	Tunability of optical constants of Se-Ge-Ag thin films based on change in resistivity with temperature for solar cells. <i>Ceramics International</i> , 2021 , 47, 21117-21117	5.1	0
135	Structural, electrical, and optical properties of ITO thin films and their influence on performance of CdS/CdTe thin-film solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11107-11118	2.1	2
134	Experimental and theoretical studies of glass and crystallization kinetics of semiconducting $As_{40}Se_{40}Ag_{20}$ chalcogenide glass. <i>Physica B: Condensed Matter</i> , 2021 , 608, 412745	2.8	2
133	Microstructural, optical, and electrical characteristics of Cu-doped CdTe nanocrystalline films for designing absorber layer in solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 15095-15107	2.1	3
132	Comparative Studies on Spectroscopic and Crystallization Properties of Al_2O_3 - Li_2O - B_2O_3 - TiO_2 Glasses. <i>Brazilian Journal of Physics</i> , 2021 , 51, 1237	1.2	11
131	The pivotal role of copper on the structural and optical parameters of ZnS thin films for optoelectronic applications. <i>Chinese Journal of Physics</i> , 2021 , 71, 235-247	3.5	2

130	Implantation of Cu onto ZnTe thin film using plasma focus device for optoelectronic applications. <i>Optical Materials</i> , 2021 , 117, 111182	3.3	1
129	Comparative Studies on Polarizability, Optical Basicity and Optical Properties of Lead Borosilicate Modified with Titania. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 138-150	3.2	32
128	Influence of the indium on the structure and the optical properties of the ZnO thin film: Kramer kronig relation and the spectroscopic ellipsometry. <i>Materials Letters</i> , 2021 , 283, 128783	3.3	2
127	High refractive index and third-order nonlinear optical susceptibility of nanostructured ZnSe/FTO thin films: Towards smart multifunctional optoelectronic materials. <i>Physica B: Condensed Matter</i> , 2021 , 602, 412595	2.8	9
126	Structural and Mechanical Properties of Lithium Bismuth Borate Glasses Containing Molybdenum (LBBM) Together with their Glass Ceramics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1057-1065	3.2	29
125	The main role of bismuth in controlling linear and nonlinear optical, electronic and electrical parameters of SeTeBi thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 6866-6882	2.1	8
124	Combined experimental and DFT-TDDFT computational, structural and study effect of inter-diffusion Cu into CdTe thick film by annealing for optoelectronics. <i>Journal of Molecular Structure</i> , 2021 , 1238, 130411	3.4	4
123	Effect of implanted copper into 1 μ m cadmium telluride thick film by heat treatment for optoelectronics: Structural, optical, and electrical properties. <i>International Journal of Energy Research</i> , 2021 , 45, 20258	4.5	2
122	Optical properties upon ZnS film thickness in ZnS/ITO/glass multilayer films by ellipsometric and spectrophotometric investigations for solar cell and optoelectronic applications. <i>Optical Materials</i> , 2021 , 118, 111228	3.3	5
121	The role of doping and heating rate in optimizing the crystallization parameters of As ₃₅ Se ₆₅ -xSbx glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	
120	Improvement of optoelectronic and spintronic properties of nanocrystalline Zn _{1-x} GdxS films deposited by electron beam technique. <i>Materials Science in Semiconductor Processing</i> , 2021 , 130, 105810	4.3	1
119	Optical and microstructural characterization of nanocrystalline Cu doped ZnO diluted magnetic semiconductor thin film for optoelectronic applications. <i>Optical Materials</i> , 2021 , 119, 111312	3.3	3
118	Enhancement of multifunctional optoelectronic and spintronic applications of nanostructured Cr-doped SnO ₂ thin films by conducting microstructural, optical, and magnetic measurements. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 157, 110195	3.9	4
117	Sn-induced changes in the structure and optical properties of amorphous As ₃₅ Se ₆₅ -xSn thin films for optical devices. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	10
116	Electronic polarizability, optical basicity and mechanical properties of aluminum lead phosphate glasses. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	40
115	Judd-Ofelt analysis and physical properties of erbium modified cadmium lithium gadolinium silicate glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 4986-4996	2.1	44
114	Structural, optical, and magnetic properties of Co-doped ZnO nanocrystalline thin films for spintronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 3613-3621	2.1	2
113	Crystallization kinetics of Pb ₁₂ Ge ₁₂ Se ₇₆ chalcogenide glass. <i>Phase Transitions</i> , 2020 , 93, 323-337	1.3	4

- 112 Electronic Polarizability, Optical Basicity, Thermal, Mechanical and Optical Investigations of (65B2O3B0Li2OBAl2O3) Glasses Doped with Titanate. *Journal of Electronic Materials*, **2020**, 49, 2040-2049^{1.9} 45
- 111 Sheet resistance, temperature dependence, thermal and electrical analysis of As₄₀S₆₀Se_x thin films. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1 2.6 10
- 110 Linear and Non-linear Optical Parameters of Diluted Magnetic Semiconductor CdS_{0.9}Mn_{0.1} Thin Film: Influence of the Film Thickness. *Journal of Electronic Materials*, **2020**, 49, 1944-1956 1.9 8
- 109 Extraction of thickness, linear and nonlinear optical parameters of Ge_{20+x}Se_{80-x} thin films at normal and slightly inclined light for optoelectronic devices. *Optical Materials*, **2020**, 110, 110539 3.3 17
- 108 Optical constants and dispersion parameters of amorphous Se₆₅As₃₅S_bx thick films for optoelectronics. *Indian Journal of Physics*, **2020**, 95, 1853 1.4 5
- 107 Mechanical and radiation-shielding properties of B₂O₃B₂O₅Li₂O_xMoO₃ glasses. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1 2.6 42
- 106 Investigation of Crystallization and Mechanical Characteristics of Glass and Glass-Ceramic with the Compositions xFe₂O₃-35SiO₂-35B₂O₃-10Al₂O₃-(20-x) Na₂O. *Journal of Materials Engineering and Performance*, **2020**, 29, 4549-4558 1.6 35
- 105 Investigation of Optical and Electrical Properties of Different Compositions of As-S-Se Thin Films at Thickness 725 nm With High Precision Using a Wedge-Shaped Optical Model. *Journal of Electronic Materials*, **2020**, 49, 5750-5761 1.9 10
- 104 Optical and electronic properties for As-60Li₄₀S uniform thickness of thin films: Influence of Se content. *Optical Materials*, **2020**, 109, 110257 3.3 18
- 103 Spectroscopic ellipsometry and morphological characterizations of nanocrystalline Hg_{1-x}Mn_xO oxide diluted magnetic semiconductor thin films. *Ceramics International*, **2019**, 45, 8380-8387 5.1 14
- 102 Optical constants, dispersion parameters and non-linearity of different thickness of As₄₀S₄₅Se₁₅ thin films for optoelectronic applications. *Optik*, **2019**, 186, 275-287 2.5 34
- 101 The crystallization kinetics studies of the two crystallization stages of As_{37.5}Se_{37.5}Ag₂₅ glass using the model-fitting and model-free approaches. *Chinese Journal of Physics*, **2019**, 60, 35-47 3.5 5
- 100 The particle size-dependent optical band gap and magnetic properties of Fe-doped CeO₂ nanoparticles. *Solid State Sciences*, **2019**, 91, 15-22 3.4 32
- 99 Influences of Mn doping on the microstructural, semiconducting, and optoelectronic properties of HgO nanostructure films. *Journal of the American Ceramic Society*, **2019**, 102, 4737-4747 3.8 8
- 98 Composition dependence of structural and linear and non-linear optical properties of CdS_{1-x}Mn_x semiconducting thin films. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1 2.6 17
- 97 Superior supercapacitance behavior of oxygen self-doped carbon nanospheres: a conversion of Allium cepa peel to energy storage system. *Biomass Conversion and Biorefinery*, **2019**, 11, 1311 2.3 28
- 96 Dilute magnetic semiconductor of ZnCoSe thin films: Structural, optical, and magnetic characteristics. *Journal of the American Ceramic Society*, **2019**, 102, 4067-4081 3.8 12
- 95 Investigation of the optical and electrical parameters of As_{47.5}Se_{47.5}Ag₅ thin films with different thicknesses for optoelectronic applications. *Optik*, **2019**, 178, 1302-1312 2.5 31

94	Variations of energy band gap and magnetic properties upon quantum confinement effects on the Cr doped ZnO nanoparticles. <i>Materials Research Express</i> , 2019 , 6, 015030	1.7	3
93	Effect of replacement of selenium by indium on the thermal stability and crystallization kinetics of quaternary $\text{Se}_{90-x}\text{Te}_5\text{In}_x$ glassy alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	3
92	Effect of Ag addition on crystallization kinetics and thermal stability of As ₅₀ Se ₅₀ chalcogenide glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 91-101	4.1	16
91	Structural, optical and electrical characteristics of sulfur incorporated ZnSe thin films. <i>Optik</i> , 2018 , 164, 527-537	2.5	16
90	Examination of the kinetic reaction mechanisms of amorphous As ₅₀ Se ₅₀ chalcogenide glass. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	4
89	Investigation of structural and optical properties of near surface of CdTe film induced by nitrogen plasma immersion ion implantation. <i>Materials Research Express</i> , 2018 , 5, 086402	1.7	7
88	Structural, linear and non-linear optical properties of annealed As _{47.5} Se _{47.5} Ag ₅ thin films for optoelectronic applications. <i>Optical Materials</i> , 2018 , 86, 318-325	3.3	19
87	High performance MnO ₂ nanoflower supercapacitor electrode by electrochemical recycling of spent batteries. <i>Ceramics International</i> , 2017 , 43, 8440-8448	5.1	94
86	Effect of film thickness on structural and optical properties of Cd-Zn-Te grown on glass and ITO substrates using electron beam evaporation. <i>Optik</i> , 2017 , 150, 34-47	2.5	7
85	Determination of the optical constants of As ₅₀ Se ₅₀ Ag chalcogenide thick films with high precision for optoelectronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 13379-13390	2.1	19
84	Applying wedge shape model for calculating both film thickness and optical constants of Se S Zn films with high precision for optoelectronic devices. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1052-1060	5.7	14
83	Structure Analysis and Optical Parameters of Nano-scale ZnSe/Flexible Substrate Thin Film. <i>Journal of Electronic Materials</i> , 2017 , 46, 527-534	1.9	2
82	Novel Magnetic Zinc Oxide Nanotubes for Phenol Adsorption: Mechanism Modeling. <i>Materials</i> , 2017 , 10,	3.5	19
81	Realization and computational analysis of splitting in higher order optical vortices. <i>Optik</i> , 2016 , 127, 5757-5760	5.7	1
80	Investigation of optical properties of amorphous Ge ₁₅ Se _{85-x} Cu _x thin films using spectroscopic ellipsometry. <i>Solid State Sciences</i> , 2016 , 52, 65-71	3.4	6
79	A new method for calculating the refractive index of semiconductor thin films retrieved from their transmission spectra. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 20-29	5.7	13
78	Structural, linear and nonlinear optical properties of co-doped ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	41
77	Determination of the optical constants and film thickness of ZnTe and ZnS thin films in terms of spectrophotometric and spectroscopic ellipsometry. <i>Ceramics International</i> , 2016 , 42, 2676-2685	5.1	27

76	Synthesis, purification and microstructural characterization of nickel doped carbon nanotubes for spintronic applications. <i>Ceramics International</i> , 2016 , 42, 5600-5606	5.1	20
75	Structural and optical characterization of 1 μ m of ternary alloy ZnCuSe thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	4
74	Thickness-dependent dispersion parameters, energy gap and nonlinear refractive index of ZnSe thin films. <i>Materials Research Bulletin</i> , 2016 , 80, 120-126	5.1	20
73	Thickness dependence of structural and optical properties of cadmium iodide thin films. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 317-322	5.7	11
72	Optical characterization of polycrystalline ZnSe _{1-x} Te _x thin films using variable angle spectroscopic ellipsometry and spectrophotometry techniques. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 735-741	4.3	16
71	Thermal Stability Criteria of Se _{80-x} Te ₂₀ Sb _x in Terms of Characteristic Temperatures and Kinetic Parameters. <i>Acta Physica Polonica A</i> , 2015 , 128, 358-367	0.6	3
70	Irradiation of silver and agar/silver nanoparticles with argon, oxygen glow discharge plasma, and mercury lamp. <i>SpringerPlus</i> , 2014 , 3, 443		1
69	Microstructure parameters and optical properties of cadmium ferrite thin films of variable thickness. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 919-925	2.6	14
68	X-ray analysis and optical properties of nickel oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 324-329	5.7	30
67	Structural and the optical dispersion parameters of nano-CdTe thin film/flexible substrate. <i>Materials Science in Semiconductor Processing</i> , 2014 , 19, 107-113	4.3	18
66	Optical constants and fitted transmittance spectra of varies thickness of polycrystalline ZnSe thin films in terms of spectroscopic ellipsometry. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 274-279	5.7	38
65	The influence of Cd doping on the microstructure and optical properties of nanocrystalline copper ferrite thin films. <i>Materials Research Bulletin</i> , 2013 , 48, 2279-2285	5.1	11
64	Compositional dependence of the optical properties of amorphous Se _{80-x} Te ₂₀ Bi _x thin films using transmittance and reflectance measurements. <i>Journal of Non-Crystalline Solids</i> , 2013 , 376, 61-67	3.9	29
63	Spectroscopic ellipsometry and magneto-transport investigations of Mn-doped ZnO nanocrystalline films deposited by a non-vacuum sol-gel spin-coating method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 183-189	3.1	19
62	Optical characterization of As ₂ S ₃ thin films induced by plasma immersion O ₂ /N ₂ implantation. <i>Physica Scripta</i> , 2013 , 88, 015703	2.6	4
61	Composition, annealing and thickness dependence of structural and optical studies on Zn _{1-x} Mn _x S nanocrystalline semiconductor thin films. <i>Materials Chemistry and Physics</i> , 2012 , 132, 581-590	4.4	55
60	Interpretation of the change in optical constants of different compositions of Ge ₂₅ Se ₇₅ in terms of cohesive energy. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1131-1135	3.9	9
59	Thermal stability and crystallization kinetics of Pb and Bi borate-based glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 107, 617-624	4.1	11

58	Effect of Irradiation exposure on optical properties of chalcogenide glasses $\text{Se}_{70}\text{S}_{30-x}\text{Sb}_x$ thin films. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1572-1577	2.5	40
57	Microstructural and optoelectronic properties of diluted magnetic semiconducting $\text{Cd}_{1-x}\text{Fe}_x\text{S}$ nanocrystalline films. <i>Journal of Alloys and Compounds</i> , 2012 , 520, 140-145	5.7	20
56	Structural and optical investigation of nanocrystalline $\text{Zn}_{1-x}\text{Ni}_x\text{S}$ diluted magnetic semiconductor thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 113-121	5.7	26
55	Microstructure and optical studies of electron beam evaporated $\text{ZnSe}_{1-x}\text{Te}_x$ nanocrystalline thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 532, 16-24	5.7	35
54	Spectroscopic ellipsometry investigations of the optical constants of nanocrystalline SnS thin films. <i>Physica Scripta</i> , 2012 , 86, 015702	2.6	29
53	Validity of Swanepoel's Method for Calculating the Optical Constants of Thick Films. <i>Acta Physica Polonica A</i> , 2012 , 121, 628-635	0.6	58
52	Optical band gap, refractive index dispersion and single-oscillator parameters of amorphous $\text{Se}_{70}\text{S}_{30-x}\text{Sb}_x$ semiconductor thin films. <i>Philosophical Magazine</i> , 2011 , 91, 1679-1692	1.6	34
51	Microstructural, optical and photocatalytic properties of CdS doped TiO_2 thin films. <i>Physica B: Condensed Matter</i> , 2011 , 406, 4327-4331	2.8	18
50	The effect of Sb content on glass-forming ability, the thermal stability, and crystallization of GeSe chalcogenide glass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 191-198	4.1	22
49	Sintering behavior and devitrification kinetics of iron containing clinopyroxene based magnetic glass-ceramics. <i>Solid State Ionics</i> , 2011 , 186, 59-68	3.3	8
48	Comparative study of thermal stability and crystallization kinetics of $70\text{B}_2\text{O}_3/0\text{Bi}_2\text{O}_3$ and $70\text{B}_2\text{O}_3/0\text{PbO}$ glasses. <i>Physica B: Condensed Matter</i> , 2011 , 406, 406-411	2.8	5
47	Optical and kinetics studies of titanium-zinc-niobium-tellurium oxides glass. <i>Physica Scripta</i> , 2011 , 83, 015704	2.6	4
46	Structure, Sintering, and Crystallization Kinetics of Alkaline-Earth Aluminosilicate Glass-Ceramic Sealants for Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 830-837	3.8	32
45	Crystallization kinetics of semiconducting vanadium borate glass using DSC. <i>Physica Scripta</i> , 2010 , 82, 045603	2.6	2
44	Optical investigation of electron-beam-deposited tungsten-tellurite $(\text{TeO}_2)_{100-x}(\text{WO}_3)_x$ amorphous films. <i>Philosophical Magazine</i> , 2010 , 90, 3499-3509	1.6	23
43	Development and performance of diopside based glass-ceramic sealants for solid oxide fuel cells. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1070-1080	3.9	32
42	Studying the crystallization behavior of the $\text{Se}_{85}\text{S}_{10}\text{Sb}_5$ chalcogenide semiconducting glass by DSC and X-ray diffraction. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1301-1305	3.9	6
41	A TEM study and non-isothermal crystallization kinetic of tellurite glass-ceramics. <i>Journal of Materials Science</i> , 2010 , 45, 5929-5936	4.3	7

40	Investigation of the refractive index and dispersion parameters of tungsten oxynitride thin films. <i>Materials Chemistry and Physics</i> , 2010 , 121, 249-253	4.4	11
39	Structure and crystallization behaviour of some MgSiO ₃ -based glasses. <i>Ceramics International</i> , 2009 , 35, 1529-1538	5.1	12
38	Thermal stability and crystallization kinetics of ternary Se ₁₀ Te ₈ Sb semiconducting glassy alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 347-354	4.1	33
37	Crystallization kinetics of Li ₂ O-PbO-V ₂ O ₅ glasses. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2412-2418	2.8	14
36	Microstructural parameters and optical constants of ZnTe thin films with various thicknesses. <i>Physica B: Condensed Matter</i> , 2009 , 404, 3571-3576	2.8	64
35	The effect of fluoride ions on the structure and crystallization kinetics of La ₂ O ₃ -containing diopside based oxyfluoride glasses. <i>Ceramics International</i> , 2009 , 35, 3489-3493	5.1	5
34	Effect of BaO on the crystallization kinetics of glasses along the Diopside-Ca-Tschermak join. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 193-202	3.9	17
33	Effect of composition on the thermal stability for Ge ₁₀ H ₈ Se intermediate compound. <i>Journal of Alloys and Compounds</i> , 2009 , 469, 427-432	5.7	29
32	Characterization of some lead vanadate glasses. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 447-452	5.7	35
31	Effect of film thickness on microstructure parameters and optical constants of CdTe thin films. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 400-404	5.7	113
30	Crystallization kinetics of new compound of V ₂ O ₅ -PbO-Li ₂ O-Fe ₂ O ₃ glass using differential thermal analysis. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 440-446	5.7	17
29	Optical properties of glasses (TeO ₂ -TeO ₂ -2O) thin films co-doped with rare earth oxides Sm ₂ O ₃ /Yb ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2009 , 485, 519-523	5.7	19
28	Crystallization kinetics of the TeO ₂ -BaO glass system. <i>Philosophical Magazine</i> , 2009 , 89, 27-39	1.6	13
27	Crystallisation kinetics of diopside-Ca-Tschermak based glasses nucleated with Cr ₂ O ₃ and Fe ₂ O ₃ . <i>International Journal of Materials Engineering Innovation</i> , 2009 , 1, 40	0.9	3
26	Effect of compositional variations on the optical properties of Sb ₂ Te ₂ Se thin films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 125301	3	49
25	Structural and thermal stability criteria of Bi ₂ O ₃ -B ₂ O ₃ glasses. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 155108	1.8	66
24	Thermal analysis and infrared study of Nb ₂ O ₅ -TeO ₂ glasses. <i>Philosophical Magazine</i> , 2008 , 88, 3059-3073	1.6	21
23	Non-isothermal crystallization kinetics of ZnO-BaO-B ₂ O ₃ -SiO ₂ glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3944-3951	3.9	52

22	Calculation of optical constant of amorphous germanium arsenoselenide wedge-shaped thin films from their shrunk transmittance and reflectance spectra. <i>Philosophical Magazine</i> , 2008 , 88, 781-794	1.6	46
21	The effect of Bi content on the thermal stability and crystallization of Se ₁₀ Te ₉₀ chalcogenide glass. <i>Philosophical Magazine</i> , 2008 , 88, 1099-1112	1.6	18
20	Influence of ZnO on the crystallization kinetics and properties of diopside-Ca-Tschermak based glasses and glass-ceramics. <i>Journal of Applied Physics</i> , 2008 , 104, 043529	2.5	15
19	Structural and optical properties of lithium borobismuthate glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2281-2287	3.9	47
18	Spectroscopic properties, electronic polarizability, and optical basicity of Bi ₂ O ₃ -Li ₂ O-B ₂ O ₃ glasses. <i>Physica B: Condensed Matter</i> , 2008 , 403, 2399-2407	2.8	139
17	Optical and physical properties of different composition of In _x Se _{1-x} thin films. <i>Physica B: Condensed Matter</i> , 2008 , 403, 31-36	2.8	27
16	Crystallization kinetics of BaO-NaO-Al ₂ O ₃ -B ₂ O ₃ -Bi ₂ O ₃ glass. <i>Physica B: Condensed Matter</i> , 2008 , 403, 1738-1746	2.8	29
15	Study of Crystallization Kinetics in Glasses along the Diopside-Ca-Tschermak Join. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2690-2697	3.8	20
14	Compositional dependence of the optical properties of amorphous semiconducting glass Ge ₁₀ As _x Se _(90-x) thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 400-406	3.9	7
13	Compositional dependence of the optical properties of amorphous antimony selenide thin films using transmission measurements. <i>Thin Solid Films</i> , 2007 , 515, 3810-3815	2.2	37
12	Glass forming tendency in ternary Ge-As ₂₀ -Te ₈₀ glasses examined using differential scanning calorimetry. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 096212	1.8	11
11	Non-isothermal crystallization kinetic studies on MgO-Al ₂ O ₃ -Bi ₂ O ₃ -TiO ₂ glass. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 2383-2391	3.9	94
10	Influence of NiO on the crystallization kinetics of near stoichiometric cordierite glasses nucleated with TiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 386231	1.8	21
9	Determination of the optical constants of thermally evaporated amorphous As ₄₀ S ₆₀ , As ₃₅ S ₆₅ and As ₃₀ S ₇₀ using transmission measurements. <i>Physica B: Condensed Matter</i> , 2006 , 381, 24-29	2.8	30
8	Optical and acoustic properties of TeO ₂ /WO ₃ glasses with small amount of additive ZrO ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 1649-1655	3.9	21
7	Optical characterization of arsenic sulfide semiconducting glass films using the transmittance measurements. <i>Materials Chemistry and Physics</i> , 2006 , 100, 411-417	4.4	40
6	Non-isothermal crystallization kinetic studies on a ternary, Sb _{0.14} As _{0.38} Se _{0.48} chalcogenide semi-conducting glass. <i>Physica B: Condensed Matter</i> , 2006 , 373, 211-216	2.8	29
5	Calculation of the Optical Constants of Amorphous Semiconducting As ₄₀ S ₆₀ , As ₄₀ S ₃₅ Se ₂₅ and As ₄₀ Se ₆₀ Thin Films from Transmittance and Reflectance Measurements. <i>Journal of Applied Sciences</i> , 2006 , 6, 340-346	0.3	4

4	Ion implantation-caused damage in SiC measured by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2004 , 455-456, 239-243	2.2	5
3	Determination of the complex dielectric function of ion implanted amorphous SiC by spectroscopic ellipsometry. <i>Physica Status Solidi A</i> , 2003 , 195, 277-281		5
2	Effective role of cadmium doping in controlling the linear and non-linear optical properties of non-crystalline CdSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	1
1	Pre-Crystallization Criteria and Triple Crystallization Kinetic Parameters of Amorphous/Crystalline Phase Transition of As ₄₀ S ₄₅ Se ₁₅ Alloy. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	0