A M Abdelghany

List of Publications by Citations

178 papers	3,824 citations	41 h-index	52 g-index
182 ext. papers	4,917 ext. citations	3.2 avg, IF	6.54 L-index

#	Paper	IF	Citations
178	Effect of gamma-irradiation on (PEO/PVP)/Au nanocomposite: Materials for electrochemical and optical applications. *Materials and Design*, **2016**, 97, 532-543	8.1	94
177	Structural, optical, morphological and thermal properties of PEO/PVP blend containing different concentrations of biosynthesized Au nanoparticles. *Journal of Materials Research and Technology*, **2018**, 7, 419-431	5.5	88
176	UV□isible and infrared absorption spectra of gamma irradiated CuO-doped lithium phosphate, lead phosphate and zinc phosphate glasses: A comparative study. *Physica B: Condensed Matter*, **2011**, 406, 3694-3703	2.8	86
175	Characterization and some physical studies of PVA/PVP filled with MWCNTs. *Journal of Materials Research and Technology*, **2019**, 8, 904-913	5.5	84
174	Infrared absorption spectra of transition metals-doped soda lime silica glasses. *Physica B: Condensed Matter*, **2010**, 405, 1294-1300	2.8	84
173	Synthesis, characterization and antimicrobial activity of Chitosan/Polyvinyl Alcohol blend doped with Hibiscus Sabdariffa L. extract. *Journal of Molecular Structure*, **2019**, 1197, 603-609	3.4	78
172	Gamma rays interaction with bismuth borate glasses doped by transition metal ions. *Journal of Materials Science*, **2011**, 46, 5140-5152	4.3	77
171	UV□isible and infrared absorption spectra of gamma irradiated V2O5-doped in sodium phosphate, lead phosphate, zinc phosphate glasses: A comparative study. *Journal of Non-Crystalline Solids*, **2011**, 357, 1027-1036	3.9	73
170	Bone bonding ability behavior of some ternary borate glasses by immersion in sodium phosphate solution. *Ceramics International*, **2012**, 38, 1105-1113	5.1	71
169	Blend biopolymeric nanofibrous scaffolds of cellulose acetate/□polycaprolactone containing metallic nanoparticles prepared by laser ablation for wound disinfection applications. *International Journal of Biological Macromolecules*, **2020**, 155, 636-644	7.9	71
168	. *Applied Organometallic Chemistry*,	3.1	70
167	Optical and FTIR structural studies of CoO-doped sodium borate, sodium silicate and sodium phosphate glasses and effects of gamma irradiation-a comparative study. *Journal of Molecular Structure*, **2014**, 1074, 503-510	3.4	68
166	Optical and FTIR studies of CuO-doped lead borate glasses and effect of gamma irradiation. *Journal of Non-Crystalline Solids*, **2012**, 358, 820-825	3.9	61
165	Combined DFT/FTIR structural studies of monodispersed PVP/Gold and silver nano particles. *Journal of Alloys and Compounds*, **2015**, 646, 326-332	5.7	59
164	UV-irradiation assisted control of the structural, optical and thermal properties of PEO/PVP blended gold nanoparticles. *Materials Chemistry and Physics*, **2017**, 201, 100-112	4.4	58
163	Impact of in situ preparation of CdS filled PVP nano-composite. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 130, 302-8	4.4	57
162	Optical and FTIR spectra of NdF3-doped borophosphate glasses and effect of gamma irradiation. *Journal of Molecular Structure*, **2012**, 1030, 107-112	3.4	57

161	Structural characterization of gamma irradiated lithium phosphate glasses containing variable amounts of molybdenum. *Journal of Molecular Structure*, **2011**, 1000, 103-108	3.4	56
160	Optical and shielding behavior studies of vanadium-doped lead borate glasses. *Radiation Effects and Defects in Solids*, **2012**, 167, 49-58	0.9	54
159	Optical and infrared absorption spectra of 3d transition metal ions-doped sodium borophosphate glasses and effect of gamma irradiation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 98, 148-55	4.4	54
158	Precipitation of silver nanoparticles in silicate glasses via Nd:YAG nanosecond laser and its characterization. *Journal of Non-Crystalline Solids*, **2019**, 513, 49-54	3.9	52
157	Impact of vanadium ions in barium borate glass. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 137, 39-44	4.4	52
156	Shielding behavior of V2O5 doped lead borate glasses towards gamma irradiation. *Journal of Alloys and Compounds*, **2011**, 509, 6913-6919	5.7	51
155	The Elusory Role of Low Level Doping Transition Metals in Lead Silicate Glasses. *Silicon*, **2010**, 2, 179-184	2.4	47
154	Optical and structural investigations of zinc phosphate glasses containing vanadium ions. *Journal of Non-Crystalline Solids*, **2016**, 433, 14-19	3.9	46
153	FTIR Spectral Analysis of Corrosion Mechanisms in Soda Lime Silica Glasses Doped with Transition Metal Oxides. *Silicon*, **2010**, 2, 41-47	2.4	46
152	Structural and optical properties of CuO in zinc phosphate glasses and effects of gamma irradiation. *Journal of Molecular Structure*, **2016**, 1103, 224-231	3.4	45
151	Removal and separation of Cu(II) from aqueous solutions using nano-silver chitosan/polyacrylamide membranes. *International Journal of Biological Macromolecules*, **2016**, 86, 789-98	7.9	45
150	Role of SrO on the bioactivity behavior of some ternary borate glasses and their glass ceramic derivatives. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2016**, 152, 126-33	4.4	44
149	Effect of Gamma-irradiation on biosynthesized gold nanoparticles using Chenopodium murale leaf extract. *Journal of Saudi Chemical Society*, **2017**, 21, 528-537	4.3	44
148	Novel method for early investigation of bioactivity in different borate bio-glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 100, 120-6	4.4	44
147	Nd:YAG Nanosecond Laser Pulses for Precipitation Silver Nanoparticles in Silicate Glasses: AC Conductivity and Dielectric Studies. *Silicon*, **2020**, 12, 13-20	2.4	44
146	Nanosecond Laser Irradiation as New Route for Silver Nanoparticles Precipitation in Glassy Matrix. *Silicon*, **2019**, 11, 377-381	2.4	43
145	Gamma rays interactions with WO3-doped lead borate glasses. *Materials Chemistry and Physics*, **2012**, 134, 542-548	4.4	43
144	Ultraviolet, visible, ESR, and infrared spectroscopic studies of CeO2-doped lithium phosphate glasses and effect of gamma irradiation. *Journal of Molecular Structure*, **2011**, 997, 94-102	3.4	43

143	Characterization by combined optical and FT infrared spectra of 3d-transition metal ions doped-bismuth silicate glasses and effects of gamma irradiation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 122, 461-8	4.4	42
142	Ultraviolet and infrared absorption spectra of Cr2O3 doped-sodium metaphosphate, lead metaphosphate and zinc metaphosphate glasses and effects of gamma irradiation: a comparative study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 114, 658-67	4.4	42
141	Defect formation of gamma irradiated MoO3-doped borophosphate glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 114, 569-74	4.4	42
140	UV-Visible and IR Spectroscopic Studies of Gamma Irradiated Transition Metal Doped Lead Silicate Glasses. *Silicon*, **2010**, 2, 49-60	2.4	42
139	Precipitation of Silver Nanoparticles in Borate Glasses by 1064 nm Nd:YAG Nanosecond Laser Pulses: Characterization and Dielectric Studies. *Journal of Electronic Materials*, **2020**, 49, 826-832	1.9	41
138	Influence of green synthesized gold nanoparticles on the structural, optical, electrical and dielectric properties of (PVP/SA) blend. *Physica B: Condensed Matter*, **2019**, 560, 162-173	2.8	41
137	Mixed alkali effect and samarium ions effectiveness on the structural, optical and non-linear optical properties of borate glass. *Journal of Non-Crystalline Solids*, **2018**, 495, 67-74	3.9	41
136	Optical properties of bismuth borotellurite glasses doped with NdCl3. *Journal of Molecular Structure*, **2019**, 1175, 504-511	3.4	40
135	Determination of Cu(2+), Zn(2+) and Pb(2+) in biological and food samples by FAAS after preconcentration with hydroxyapatite nanorods originated from eggshell. *Materials Science and Engineering C*, **2015**, 52, 288-96	8.3	38
134	Structural, thermal and electrical studies of polyethylene oxide/starch blend containing green synthesized gold nanoparticles. *Journal of Molecular Structure*, **2019**, 1180, 15-25	3.4	38
133	Effect of 3d-transition metal doping on the shielding behavior of barium borate glasses: a spectroscopic study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 133, 534-41	4.4	35
132	Effect of TiO2 doping and gamma ray irradiation on the properties of SrOB2O3 glasses. *Journal of Non-Crystalline Solids*, **2013**, 379, 214-219	3.9	35
131	Green synthesis of gold nanoparticles and its effect on the optical, thermal and electrical properties of carboxymethyl cellulose. *Composites Part B: Engineering*, **2019**, 172, 436-446	10	34
130	Influence of CuO content on the structure of lithium fluoroborate glasses: Spectral and gamma irradiation studies. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 149, 788-92	4.4	32
129	Spectroscopic studies of lithium phosphate, lead phosphate and zinc phosphate glasses containing TiO2: Effect of gamma irradiation. *Journal of Molecular Structure*, **2013**, 1035, 209-217	3.4	32
128	Quantum confinement effect of CdS nanoparticles dispersed within PVP/PVA nanocomposites. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 2956-2961	2.1	32
127	Structural and Electrical Properties of PVA/PVP Blend Doped with Methylene Blue Dye. *International Journal of Electrochemical Science*, **2016**, 9041-9056	2.2	31
126	Optical and FTIR structural studies on CoO-doped strontium phosphate glasses. *Journal of Non-Crystalline Solids*, **2018**, 499, 153-158	3.9	30

125	Structural evaluation and shielding behavior of gamma irradiated vanadium doped silicophosphate glasses. *Journal of Molecular Structure*, **2012**, 1024, 47-53	3.4	29
124	Precipitation of silver nanoparticle within silicate glassy matrix via Nd:YAG laser for biomedical applications. *Radiation Physics and Chemistry*, **2020**, 174, 108958	2.5	28
123	Enhancement of optical and electrical properties of PVC/PMMA blend films doped with Li4Ti5O12 nanoparticles. *Journal of Materials Research and Technology*, **2020**, 9, 789-797	5.5	28
122	Synthesis and structural-biological correlation of PVCPVAc polymer blends. *Journal of Materials Research and Technology*, **2019**, 8, 3908-3916	5.5	24
121	Infrared reflection spectroscopy for precise tracking of corrosion behavior in 3d-transition metals doped binary lead silicate glass. *Physica B: Condensed Matter*, **2010**, 405, 2648-2653	2.8	24
120	Optical and FTIR mapping: A new approach for structural evaluation of V2O5-lithium fluoroborate glasses. *Materials and Design*, **2016**, 89, 568-572	8.1	23
119	Gamma-rays interactions on optical, FTIR absorption and ESR spectra of 3d transition metals-doped sodium silicophosphate glasses. *Journal of Molecular Structure*, **2014**, 1067, 138-146	3.4	23
118	Optical and dielectric characteristics of polyethylene oxide/sodium alginate-modified gold nanocomposites.. *RSC Advances*, **2020**, 10, 37621-37630	3.7	23
117	The effect of WO3 dopant on the structural and optical properties of ZnOP2O5 glass and the effect of gamma irradiation. *Journal of Molecular Structure*, **2015**, 1081, 342-347	3.4	21
116	Spectroscopic investigation of synergetic bioactivity behavior of some ternary borate glasses containing fluoride anions. *Ceramics International*, **2014**, 40, 8003-8011	5.1	21
115	Structural investigation and enhancement of optical, electrical and thermal properties of poly (vinyl chloride-co-vinyl acetate-co-2-hydroxypropyl acrylate)/graphene oxide nanocomposites. *Journal of Materials Research and Technology*, **2019**, 8, 1111-1120	5.5	21
114	The influence of fluorine and nickel ions on the structural, spectroscopic, and optical properties of (100 x)[15NaF5CaF2B0B2O3]-xNiO glasses. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 8662-8668	2.1	20
113	Photodegradation of methylene blue with PVA/PVP blend under UV light irradiation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 199, 220-227	4.4	20
112	Pulsed laser ablated zeolite nanoparticles: A novel nano-catalyst for the synthesis of 1,8-dioxo-octahydroxanthene and N-aryl-1,8-dioxodecahydroacridine with molecular docking validation. *Applied Organometallic Chemistry*, **2020**, 34, e5250	3.1	20
111	Zinc containing borate glasses and glass-ceramics: Search for biomedical applications. *Processing and Application of Ceramics*, **2014**, 8, 185-193	1.4	19
110	AC conductivity and dielectric characteristics of PVA/PVP nanocomposite filled with MWCNTs. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 15521-15533	2.1	18
109	Optical character inquest of cobalt containing fluoroborate glass. *Optik*, **2017**, 142, 125-133	2.5	17
108	Bismuth silicate glass as host media for some selected rare-earth ions and effects of gamma irradiation. *Philosophical Magazine*, **2013**, 93, 2465-2484	1.6	17

107	Judd□Ofelt analysis of spectroscopic properties of Sm3+ doped P2O5□SrO glasses. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 12132-12138	2.1	16
106	Computational studies of the first order kinetic reactions for mononuclear copper(II) complexes having a hard-soft NS donor ligand. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 130, 178-87	4.4	16
105	Optical and FT Infrared spectral studies of vanadium ions in cadmium borate glass and effects of gamma irradiation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 131, 497-501	4.4	16
104	Compatibility and bone bonding efficiency of gamma irradiated Hench's Bioglass-Ceramics. *Ceramics International*, **2018**, 44, 7034-7041	5.1	15
103	Role of Silica Nanoparticles on Structural, Optical and Morphological Properties of Poly(Vinyl Chloride-co-Vinyl Acetate-co-2- Hydroxypropyl Acrylate) Copolymer. *Silicon*, **2018**, 10, 519-524	2.4	15
102	Optical character enrichment of NdF3 □doped lithium fluoroborate glasses. *Journal of Non-Crystalline Solids*, **2016**, 453, 16-22	3.9	15
101	Transparent Alumino Lithium Borate Glass-Ceramics: Synthesis, Structure and Gamma-Ray Shielding Attitude. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 31, 2560-2568	3.2	15
100	A.C conductivity and dielectric properties of CoO doped SrO-P2O5 glasses. *Physica B: Condensed Matter*, **2019**, 573, 22-27	2.8	14
99	Gravitoelectrostatic excitations in an opposite polarity complex plasma. *Physics of Plasmas*, **2019**, 26, 063701	2.1	14
98	Effect of gamma-irradiation on the structural, optical and electrical properties of PEO/starch blend containing different concentrations of gold nanoparticles. *Radiation Effects and Defects in Solids*, **2019**, 174, 579-595	0.9	14
97	Enhancement of dielectric properties and AC electrical conductivity of nanocomposite using poly (vinyl chloride-co-vinyl acetate-co-2-hydroxypropyl acrylate) filled with graphene oxide. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 15931-15945	2.1	14
96	Morphological, Thermal and Electrical Properties of (PEO/PVP)/ Au Nanocomposite Before and After Gamma-Irradiation. *Journal of Research Updates in Polymer Science*, **2017**, 6, 45-54		14
95	Optical parameters, antibacterial characteristics and structure correlation of copper ions in cadmium borate glasses. *Journal of Materials Research and Technology*, **2020**, 9, 10491-10497	5.5	14
94	Thermal, Structural, and Morphological Investigations of Modified Bismuth Silicate Glass-Ceramics. *Silicon*, **2017**, 9, 239-248	2.4	13
93	Nonlinear dust acoustic waves in a self-gravitating and opposite-polarity complex plasma medium. *European Physical Journal Plus*, **2019**, 134, 1	3.1	13
92	Gamma irradiated Hench's Bioglass and their derivatives Hench's Bioglass-ceramic for bone bonding efficiency. *Radiation Physics and Chemistry*, **2020**, 174, 108932	2.5	13
91	The influence of Ba2+ and Sr2+ ions with the Dy3+ ions on the optical properties of lead borate glasses: experimental and Judd□Ofelt comparative study. *Journal of Materials Research and Technology*, **2020**, 9, 59-66	5.5	13
90	Structural and optical absorption studies on CrO doped SrO-PO glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 228, 117840	4.4	13

89	In Vitro Bioactivity Behavior of Some Borophosphate Glasses Containing Dopant of ZnO, CuO or SrO Together with their Glass-Ceramic Derivatives and their Antimicrobial Activity. *Silicon*, **2019**, 11, 197-208	2.4	13
88	Influence of SiO2 nanoparticles on morphology, optical, and conductivity properties of Poly (ethylene oxide). *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10422-10436	2.1	12
87	Compatibility and Bone Bonding Efficiency of Gamma Irradiated Hench Bioglass. *Silicon*, **2018**, 10, 1533-1541	2.4	12
86	Effect of cesium bromide on the structural, optical, thermal and electrical properties of polyvinyl alcohol and polyethylene oxide. *Journal of Materials Research and Technology*, **2020**, 9, 1530-1538	5.5	12
85	New Transparent Nano-Glass-Ceramics of SiO 2 and CaF 2 doped SrO-B 2 O 3 Glass. *Silicon*, **2016**, 8, 563-571	2.4	11
84	Gamma Rays Interactions with Strontium Borate Glasses Doped with First-Row Transition Metal Oxides. *The Open Spectroscopy Journal*, **2014**, 8, 1-8		11
83	Gamma ray interaction with vanadyl ions in barium metaphosphate glasses; spectroscopic and ESR studies. *Journal of Molecular Structure*, **2017**, 1147, 33-39	3.4	10
82	Structural and Optical Correlation of Gamma-Irradiated 3d Transition Metals-Doped Lithium Disilicate Glasses. *Silicon*, **2015**, 7, 409-417	2.4	10
81	Gamma rays Interactions with Bismuth Phosphate Glasses Doped with 3d Transition Metal Oxides. *Silicon*, **2018**, 10, 891-899	2.4	10
80	Vanadium structural role in binary fluoride borate glasses and effects of gamma irradiation. *Radiation Physics and Chemistry*, **2020**, 170, 108659	2.5	10
79	Characterization of Invert Soda Lime Silica Glasses Containing High Titania Content Together with their Glass Ceramics. *Silicon*, **2018**, 10, 1035-1043	2.4	9
78	Preconcentration of Lead in Blood and Urine Samples Among Bladder Cancer Patients Using Mesoporous Strontium Titanate Nanoparticles. *Biological Trace Element Research*, **2020**, 193, 100-110	4.5	9
77	Role of CdSe quantum dots in the structure and antibacterial activity of chitosan/poly e-caprolactone thin films. *Egyptian Journal of Basic and Applied Sciences*, **2018**, 5, 138-144	1.3	9
76	Synthesis and Spectral Properties of Nd2O3-Doped Sodium Silicophosphate Glass. *Silicon*, **2016**, 8, 325-330	2.4	8
75	Structural Investigation of PVC/PS Polymer Blend Doped with Nanosilica from a Renewable Source. *Silicon*, **2018**, 10, 1013-1019	2.4	8
74	Structure and Electrical Properties of Iron Borosilicate Glasses. *Silicon*, **2017**, 9, 895-900	2.4	8
73	The effect of Li 2 O and LiF on structural properties of cobalt doped borate glasses. *Journal of King Saud University - Science*, **2017**, 29, 510-516	3.6	8
72	V2O5 based quadruple nano-perovskite as a new catalyst for the synthesis of bis and tetrakis heterocyclic compounds. *Applied Organometallic Chemistry*, **2019**, 33, e4783	3.1	7

71	Dielectric, electrical and spectroscopic properties of barium borates of low WO3 content. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 5120-5128	2.1	7
70	V2 O 5/SiO2 as a Heterogeneous Catalyst in the Synthesis of bis(indolyl)methanes Under Solvent Free Condition. *Silicon*, **2018**, 10, 703-708	2.4	7
69	Lepidium sativum natural seed plant extract in the structural and physical characteristics of polyvinyl alcohol. *International Journal of Environmental Studies*, **2018**, 75, 965-977	1.8	7
68	Performance Enhancement of Chitosan Filled Silver Vanadate Nano-rods. *Journal of Inorganic and Organometallic Polymers and Materials*, **2019**, 29, 901-907	3.2	6
67	Dust acoustic cnoidal waves in a polytropic complex plasma. *Physics of Plasmas*, **2018**, 25, 013709	2.1	6
66	Solid-phase extraction of Cu2+ and Pb2+ from waters using new thermally treated chitosan/polyacrylamide thin films; adsorption kinetics and thermodynamics. *International Journal of Environmental Analytical Chemistry*, **2017**, 97, 965-982	1.8	6
65	Electrical conductivity and thermoelectric power of AgSbSe2 in the solid and liquid states. *Materials Chemistry and Physics*, **1996**, 44, 277-280	4.4	6
64	Role of LiBr Inorganic Filler on Physical Properties of Polyether Sulfone Thermoplastic Polymer. *Quantum Matter*, **2016**, 5, 233-242		6
63	Enrichment of Poly Vinyl Chloride (PVC) Biological uses Through Sodium Chloride Filler, Density Functional Theory (DFT) Supported Experimental Study. *Journal of Advances in Physics*, **2018**, 14, 5682-5692	1.5	6
62	Dosimetric behavior of modified borate bioglass containing copper for low photon dose measurements using luminescence characteristics. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 20452-20459	2.1	6
61	Spectroscopic Inquiry of the Fe2O3-role in Binary Sodium Borate, Sodium Silicate and Sodium Phosphate Glasses and Effects of Gamma Irradiation. *Silicon*, **2016**, 8, 313-324	2.4	6
60	The influence of titanium ions on crystallization, morphological, and structural properties of strontium borate glass. *Journal of Non-Crystalline Solids*, **2016**, 450, 66-74	3.9	6
59	Structure–dynamic properties relationships in poly(ethylene oxide)/silicon dioxide nanocomposites: dielectric relaxation study. *Polymer Bulletin*, **2021**, 78, 5205-5223	2.4	6
58	Photochromic behavior of tungsten ions in sodium metaphosphate glass and effect of oxidizing condition assessed by spectroscopic analysis. *Journal of Non-Crystalline Solids*, **2021**, 552, 120460	3.9	6
57	Structural, optical, and electrical reinforcement of gamma-irradiated PEO/SA/Au NPs nanocomposite. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 6538-6549	2.1	6
56	Gamma Irradiation Effect on Structural and Spectral Properties of CeO2, Nd2O3, Gd2O3 or Dy2O3 Doped Strontium Borate Glass. *Silicon*, **2018**, 10, 29-37	2.4	6
55	AC Conductivity and Dielectric Behavior of Silicophosphate Glass Doped by Nd2O3. *Silicon*, **2017**, 9, 347-354	2.4	5
54	Modeling, Structural, and Spectroscopic Studies of Cobalt-doped Lithium Phosphate Glasses and Effect of Gamma Irradiation. *Spectroscopy Letters*, **2015**, 48, 623-630	1.1	5

53	Formation of Li3B7O12 and O2BF4 phases from glass system of 0.5LiF-0.5B2O3 containing P2O5 and their structural properties. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10315-10322	2.1	5
52	Effect of addition of a mixed filler of CoCl2 and LiBr into PEMA and its morphological, thermal and electrical properties. *Bulletin of Materials Science*, **2020**, 43, 1	1.7	5
51	Preparation, physical, structural, optical characteristics, and gamma-ray shielding features of CeO2 containing bismuth barium borate glasses. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 20060-20071	2.1	5
50	Structural, Optical, Thermal, Morphological and Electrical Studies of PEMA/PMMA Blend Filled with CoCl2 and LiBr As Mixed Filler. *Journal of Electronic Materials*, **2020**, 49, 6107-6122	1.9	5
49	Design a tunable glasses optical filters using CuO doped fluoroborate glasses. *Optics and Laser Technology*, **2021**, 137, 106829	4.2	5
48	On Y2O3–Li2O–Al2O3–B2O3 glasses: synthesis, structure, physical, optical characteristics and gamma-ray shielding behavior. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 16242-16254	2.1	5
47	Structural, Optical, and Dielectric Properties of Azure B Thin Films and Impact of Thermal Annealing. *Journal of Electronic Materials*, **2017**, 46, 4304-4311	1.9	4
46	Effect of BO4 and FeO4 Structural Units on Conduction Mechanism of Iron Borosilicate Glasses. *Silicon*, **2020**, 1	2.4	4
45	Bone bonding augmentation and synergetic attitude of gamma-irradiated modified borate bioglass. *Radiation Physics and Chemistry*, **2020**, 176, 109018	2.5	4
44	In vitro bioactivity of silicophosphate glasses doped with ZnO, SrO or CuO. *Journal of Theoretical and Applied Physics*, **2020**, 14, 159-169	1.4	4
43	Reducing Power of Phosphate Matrix in Binary Barium Phosphate Glasses Doped with 3d Transition Metals and Effects of Gamma Radiation. *Silicon*, **2018**, 10, 1181-1186	2.4	4
42	Cadmium Borate Glass as Host Media for Nickel Oxide Dopant. *Silicon*, **2015**, 7, 401-407	2.4	4
41	Modeling and Physical Properties of Lead Sulphide/Polyvinyl Alcohol Nano-Composite. *Quantum Matter*, **2016**, 5, 257-262		4
40	Synthesis, characterization and electrochemical behavior for API 5L X70 carbon steel in 5% sulfamic acid medium using PVVH/PEMA blend filled with gold nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 635, 128115	5.1	4
39	Conductivity and morphological studies on iron borosilicate glasses. *Journal of Non-Crystalline Solids*, **2020**, 545, 120233	3.9	4
38	Synthesis and thermal stability, electrical conductivity and dielectric spectroscopic studies of poly (ethylene-co-vinyl alcohol)/graphene oxide nanocomposite. *Physica B: Condensed Matter*, **2021**, 608, 412730	2.8	4
37	Structural and optical properties of PEO/CMC polymer blend modified with gold nanoparticles synthesized by laser ablation in water. *Journal of Materials Research and Technology*, **2021**, 12, 1597-1605	5.5	4
36	Biosynthesized Selenium nanoparticles as a new catalyst in the synthesis of quinazoline derivatives in pentacyclic system with docking validation as (TRPV1) inhibitor. *Journal of Organometallic Chemistry*, **2021**, 944, 121847	2.3	4

35	AC conductivity and dielectric properties of Cr2O3 doped SrOP2O5 glasses. *Physica B: Condensed Matter*, **2021**, 618, 413184	2.8	4
34	Mixed modifier effect in lithium manganese metaphosphate glasses on the emission of highly dispersed Mn2+ centers for red-LED. *Ceramics International*, **2021**, 47, 32424-32432	5.1	4
33	Comparative shielding behavior of binary PbO-B2O3 and Bi2O3-B2O3 glasses with high heavy metal oxide contents towards gamma irradiation revealed by collective optical, FTIR and ESR measurements. *Journal of Non-Crystalline Solids*, **2021**, 572, 121090	3.9	4
32	Effect of zinc oxide nanoparticles on physical properties of carboxymethyl cellulose/ poly (ethylene oxide) matrix. *Physica B: Condensed Matter*, **2022**, 633, 413771	2.8	4
31	Structural, Optical, Morphological and Electrical Properties of CoCl2-filled Poly(vinyl chloride-co-vinyl acetate-co-2- hydroxypropyl acrylate) Terpolymer. *Silicon*, **2018**, 10, 1697-1704	2.4	3
30	Manifestation and Role of B2O3 in High Lead Containing Silicate Glasses. *Silicon*, **2018**, 10, 1103-1110	2.4	3
29	Investigation of mechanical, photon buildup factors, and neutron-sensing properties of B2O3Al2O3Li2OCuO glasses. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 24401-24414	2.1	3
28	Study the structure of selenium modified polyethylene oxide/polyvinyl alcohol (PEO/PVA) polymer blend. *Journal of Materials Research and Technology*, **2021**, 14, 2962-2969	5.5	3
27	Does Modification of Amalgomer with Propolis Alter Its Physicomechanical Properties? An In Vitro Study. *International Journal of Biomaterials*, **2020**, 2020, 3180879	3.2	2
26	Dielectric behavior and PTCR effect in nanocrystallite PMN ferroelectric ceramics. *Philosophical Magazine*, **2010**, 90, 2115-2123	1.6	2
25	Structure dielectric correlation of PEO/PVP incorporated with biosynthesized gold nanoparticles. *Journal of Polymer Research*, **2020**, 27, 1	2.7	2
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