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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.

255 papers	3,839 citations	31 h-index	44 g-index
259 ext. papers	4,285 ext. citations	3.6 avg, IF	5.51 L-index

#	Paper	IF	Citations
255	Physical, structural, thermal, and optical spectroscopy studies of TeO ₂ B ₂ O ₃ MoO ₃ ZnO-B ₂ O ₃ (R=Li, Na, and K)/MO (M=Mg, Ca, and Pb) glasses. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 799-816	5.7	128
254	Recent advances in polymer electro-optic modulators. <i>RSC Advances</i> , 2015 , 5, 15784-15794	3.7	126
253	Investigation of structural, thermal properties and shielding parameters for multicomponent borate glasses for gamma and neutron radiation shielding applications. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 222-237	3.9	95
252	Structural, thermal and optical investigations of Dy ³⁺ -doped B ₂ O ₃ -WO ₃ -ZnO-PbO-Na ₂ O glasses for warm white light emitting applications. <i>Journal of Luminescence</i> , 2017 , 186, 283-300	3.8	92
251	Structure-Property Relationships and Nonlinear Optical Effects in Donor-Substituted Dicyanopyrazine-Derived Push-Pull Chromophores with Enlarged and Varied Linkers. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 529-538	3.2	87
250	Optimization of polycyclic electron-donors based on julolidinyl structure in push-pull chromophores for second order NLO effects. <i>Dyes and Pigments</i> , 2015 , 122, 74-84	4.6	80
249	Influence of Al ³⁺ ions on luminescence efficiency of Eu ³⁺ ions in barium boro-phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015 , 419, 75-81	3.9	64
248	Concentration dependent structural, thermal, and optical features of Pr ³⁺ -doped multicomponent tellurite glasses. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 769-784	5.7	63
247	Ferrocene-donor and 4,5-dicyanoimidazole-acceptor moieties in charge-transfer chromophores with linkers tailored for second-order nonlinear optics. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 465-75	4.5	56
246	Electrical and spectroscopic properties of Fe ₂ O ₃ doped Na ₂ SO ₄ -BaO-B ₂ O ₅ glass system. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 3255-3267	3.9	47
245	Electronic spectral parameters and IR nonlinear optical features of novel Ag _{0.5} Pb _{1.75} GeS ₄ crystal. <i>Journal of Crystal Growth</i> , 2012 , 354, 142-146	1.6	46
244	De-quenching influence of aluminum ions on Y/B ratio of Dy ³⁺ ions in lead silicate glass matrix. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 375-381	5.7	41
243	Electronic structure of non-centrosymmetric AgCd ₂ GaS ₄ and AgCd ₂ GaSe ₄ single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012 , 185, 559-566	1.7	40
242	Electronic Structure of Quaternary Chalcogenide Ag ₂ In ₂ Ge(Si) ₆ Single Crystals and the Influence of Replacing Ge by Si: Experimental X-Ray Photoelectron Spectroscopy and X-Ray Diffraction Studies and Theoretical Calculations. <i>Science of Advanced Materials</i> , 2013 , 5, 316-327	2.3	40
241	Structural, thermal, and optical absorption studies of Er ³⁺ , Tm ³⁺ , and Pr ³⁺ -doped borotellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2017 , 459, 150-159	3.9	39
240	Vibrational, thermal features, and photon attenuation coefficients evaluation for TeO ₂ -B ₂ O ₃ -BaO-ZnO-Na ₂ O-Er ₂ O ₃ -Pr ₆ O ₁₁ glasses as gamma-rays shielding materials. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 568-578	3.9	39
239	Optical absorption, luminescence, and energy transfer processes studies for Dy ³⁺ /Tb ³⁺ -codoped borate glasses for solid-state lighting applications. <i>Optical Materials</i> , 2017 , 72, 380-391	3.3	38

238	Influence of valence and coordination of manganese ions on spectral and dielectric features of Na ₂ SO ₄ B ₂ O ₃ B ₂ O ₅ glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1278-1286	3.9	38
237	Effect of intercalation and chromophore arrangement on the linear and nonlinear optical properties of model aminopyridine push-pull molecules. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 468-478	3.1	37
236	Structural and optical studies of Er ³⁺ -doped alkali/alkaline oxide containing zinc boro-aluminosilicate glasses for 1.5 μ m optical amplifier applications. <i>Optical Materials</i> , 2017 , 69, 401-419	3.3	36
235	Photo-induced effects in GeS ₂ glass and glass-ceramics stimulated by green and IR lasers. <i>Materials Letters</i> , 2012 , 73, 14-16	3.3	36
234	Linear and nonlinear optical susceptibilities and the hyperpolarizability of borate LiBaB ₉ O ₁₅ single-crystal: theory and experiment. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14141-50	3.4	36
233	Influence of electron beam irradiation on nonlinear optical properties of Al doped ZnO thin films for optoelectronic device applications in the cw laser regime. <i>Optical Materials</i> , 2016 , 62, 64-71	3.3	36
232	Influence of replacing Si by Ge in the chalcogenide quaternary sulfides Ag ₂ In ₂ Si(Ge) ₆ on the chemical bonding, linear and nonlinear optical susceptibilities, and hyperpolarizability. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2545-53	3.4	35
231	Nd ³⁺ -doped heavy metal oxide based multicomponent borate glasses for 1.06 μ m solid-state NIR laser and O-band optical amplification applications. <i>Optical Materials</i> , 2018 , 78, 142-159	3.3	34
230	Dc field induced optical effects in ZnF ₂ BbO ₃ :TiO ₂ glass ceramics. <i>Ceramics International</i> , 2012 , 38, 2551-2562	5.1	33
229	Single crystal growth and the electronic structure of orthorhombic Tl ₃ PbBr ₅ : A novel material for non-linear optics. <i>Optical Materials</i> , 2013 , 35, 1081-1089	3.3	32
228	Effect of different surfactants on structural and optical properties of Ce ³⁺ and Tb ³⁺ co-doped BiPO ₄ nanostructures. <i>Optical Materials</i> , 2015 , 39, 110-117	3.3	31
227	Single crystal growth and electronic structure of TlPbI ₃ . <i>Materials Chemistry and Physics</i> , 2016 , 172, 165-172	3.2	31
226	Second anion coordination for wurtzite and sphalerite chalcogenide derivatives as a tool for the description of anion sub-lattice. <i>Materials Chemistry and Physics</i> , 2013 , 139, 92-99	4.4	31
225	Structural, thermal, and optical analysis of zinc boro-aluminosilicate glasses containing different alkali and alkaline modifier ions. <i>Journal of Non-Crystalline Solids</i> , 2017 , 456, 55-63	3.9	31
224	Piezoelectric and elastic properties of ZnF ₂ BbO ₃ :TiO ₂ glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 702-710	3.9	31
223	Synthesis of tricyanofuran chromophore with flexible rigid isolated group and its application as nonlinear optical materials. <i>Materials Letters</i> , 2012 , 75, 233-235	3.3	30
222	Dispersion of linear, nonlinear optical susceptibilities and hyperpolarizability of C ₁₁ H ₈ N ₂ O (o-methoxydicyanovinylbenzene) crystals. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 13338-43	3.4	30
221	Polyimide-fullerene nanostructured materials for nonlinear optics and solar energy applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1538-1542	2.1	30

220	Characterization of Bi ₂ O ₃ ZnO B ₂ O ₃ and TeO ₂ ZnO CdO Li ₂ O V ₂ O ₅ glass systems for shielding gamma radiation using MCNP5 and Geant4 codes. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 126, 112-123	3.9	30
219	Structure-dependent anisotropy of the photoinduced optical nonlinearity in calcium doped ZnO nanorods grown by low cost hydrothermal method for photonic device applications. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 435-439	5.7	29
218	The role of ligand coordination on the spectral features of Yb ³⁺ ions in lead aluminum silicate glasses. <i>Journal of Molecular Structure</i> , 2012 , 1007, 185-190	3.4	29
217	Influence of TiO ₂ nanoparticles on the photovoltaic efficiency of the ITO/PEDOT:PSS/fluorine copolymers/polythiophene: TiO ₂ /Al architecture. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 2057-2064	2.1	29
216	Influence of Al ³⁺ ions on self up-conversion in Ho ³⁺ doped lead silicate glasses. <i>Optical Materials</i> , 2014 , 36, 1189-1196	3.3	27
215	Dicyanobenzene and dicyanopyrazine derived X-shaped charge-transfer chromophores: comparative and structure-property relationship study. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 5517-27	3.9	26
214	Role of modifier oxide in emission spectra and kinetics of Er-Ho codoped Na ₂ SO ₄ -MO-P ₂ O ₅ glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 472-80	4.4	26
213	Photoinduced Pockels effect in the Nd-doped ZnO oriented nanofilms. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 419-423	1.9	26
212	Effect of alkali/mixed alkali metal ions on the thermal and spectral characteristics of Dy ³⁺ :B ₂ O ₃ -PbO-Al ₂ O ₃ -ZnO glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 191-201	3.9	26
211	Synthesis and characterization of NLO chromophore with benzo [1,2-b:4,5-b']dithiophene unit as Electron bridge. <i>Tetrahedron Letters</i> , 2012 , 53, 3393-3396	2	24
210	Optical and photoconductivity spectra of novel Ag ₁₀ Bi ₁₀ S ₁₀ and Ag ₁₀ Ge ₁₀ S ₁₀ chalcogenide crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 91, 48-50	4.4	23
209	Bismuth in gallium arsenide: Structural and electronic properties of GaAs _{1-x} Bi _x alloys. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 47-53	3.3	23
208	Physical properties of ZnF ₂ -PbO-TeO ₂ :TiO ₂ glass ceramics Part III dielectric dispersion and ac conduction phenomena. <i>Ceramics International</i> , 2014 , 40, 5989-5996	5.1	23
207	Structural, electronic, and optical features of CuAl(S(1-x)Se(x)) ₂ solar cell materials. <i>Inorganic Chemistry</i> , 2014 , 53, 2645-51	5.1	22
206	Single crystal growth and the electronic structure of TlPb ₂ Br ₅ . <i>Optical Materials</i> , 2013 , 36, 251-258	3.3	22
205	Formation of intermediate solid solutions in the quaternary exchange system Cu(In,Ga)(S,Se) ₂ -Cd(S,Se). <i>CrystEngComm</i> , 2013 , 15, 4838	3.3	22
204	Low temperature dielectric dispersion and electrical conductivity studies on Fe ₂ O ₃ mixed lithium yttrium silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 3175-3186	3.9	22
203	Tunable white-light emission from Pr ³⁺ /Dy ³⁺ co-doped B ₂ O ₃ - TeO ₂ PbO - ZnO Li ₂ O - Na ₂ O glasses. <i>Optical Materials</i> , 2019 , 88, 558-569	3.3	22

202	ZnS/PVA nanocomposites for nonlinear optical applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 81, 281-289	3	21
201	Band structure, electronic and optical features of Ti_4SnX_3 ($\text{X}=\text{S}, \text{Te}$) ternary compounds for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 600-607	5.7	20
200	Multipodal arrangement of push-pull chromophores: a fundamental parameter affecting their electronic and optical properties. <i>New Journal of Chemistry</i> , 2017 , 41, 1459-1472	3.6	20
199	Small isomeric push-pull chromophores based on thienothiophenes with tunable optical (non)linearities. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 3623-3634	3.9	20
198	PbGa ₂ GeS ₆ crystal as a novel nonlinear optical material: Band structure aspects. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 294-304	5.7	20
197	Absorption and photoconductivity spectra of Ag ₂ GeS ₄ crystal: experiment and theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 93, 274-9	4.4	20
196	Effect of temperature on the structure and luminescence properties of Ag _{0.05} Ga _{0.05} Ge _{0.95} S ₂ -Er ₂ S ₃ glasses. <i>Journal of Luminescence</i> , 2017 , 181, 315-320	3.8	20
195	A study of 8 MeV e-beam on localized defect states in ZnO nanostructures and its role on photoluminescence and third harmonic generation. <i>Journal of Luminescence</i> , 2019 , 207, 321-332	3.8	20
194	Structural, thermal, optical and dielectric studies of Dy ³⁺ : B ₂ O ₃ -ZnO-PbO-Na ₂ O-CaO glasses for white LEDs application. <i>Optical Materials</i> , 2017 , 73, 686-694	3.3	19
193	Investigation of mechanical and radiation shielding features of heavy metal oxide based phosphate glasses for gamma radiation attenuation applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12140-12151	2.1	19
192	Influence of induced structural changes on thermoluminescence characteristics of γ -ray irradiated PbO-Al ₂ O ₃ -Bi ₂ O ₃ : Dy ³⁺ glasses. <i>Journal of Molecular Structure</i> , 2014 , 1073, 174-180	3.4	19
191	Nano-sized blue spectral shift in sol-gel derived mesoporous titania films. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 61, 355-361	2.3	19
190	Theoretical studies of hydrazine detection by pure and Al defected MgO nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 239-249	3	19
189	Specific features of the electronic structure of a novel ternary Ti_3PbI_5 optoelectronic material. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12838-47	3.6	18
188	Functionalized mesoporous silica thin films as a tunable nonlinear optical material. <i>Nanoscale</i> , 2017 , 9, 12110-12123	7.7	18
187	Physical characteristics of $\text{PbO}_{0.2}\text{TiO}_{2-x}\text{BiO}_{2-x}\text{TiO}_2$ glass ceramics embedded with $\text{Pb}_{2-x}\text{Ti}_{2-x}\text{O}_6$ cubic pyrochlore crystal phase: Part-I electrical properties. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 672-686	5.7	17
186	Specific features of band structure and optical anisotropy of $\text{Cu}_2\text{CdGeSe}_4$ quaternary compounds. <i>Materials Chemistry and Physics</i> , 2014 , 147, 155-161	4.4	17
185	Elastic and optoelectronic properties of CaTa_2O_6 compounds: Cubic and orthorhombic phases. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 232-239	5.7	17

184	Synthesis and luminescent properties of GdNbO ₄ :Bi ³⁺ phosphors via high temperature high pressure. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 1-8	5.7	16
183	Novel nonlinear optical push-pull fluorene dyes chromophore as promising materials for telecommunications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12180-12185	2.1	16
182	Synthesis of amorphous platinum nanofibers directly on an ITO substrate and its heterogeneous catalytic hydrogenation characterization. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7776-85	9.5	16
181	A novel copper(I) sulfamate complex based on the 5-(allylthio)-1-(3,5-dimethylphenyl)-1H-tetrazole ligand: Alternating-current electrochemical crystallization, DFT calculations, structural and NLO properties studies. <i>Polyhedron</i> , 2018 , 147, 86-93	2.7	16
180	Tl ₄ SnS ₃ , Tl ₄ SnSe ₃ and Tl ₄ SnTe ₃ crystals as novel IR induced optoelectronic materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3901-3905	2.1	16
179	Crystal structure and NLO properties of the novel tetranuclear copper(I) chloride complex with 3-allyl-2-(allylimino)-1,3-thiazolidin-4-one. <i>Journal of Molecular Structure</i> , 2018 , 1171, 644-649	3.4	16
178	Photovoltaic, photoelectric and optical spectra of novel Ag _x Ga _x Ge _{1-x} Se ₂ (0.167 ≤ x ≤ 0.333) quaternary single crystals. <i>Materials Chemistry and Physics</i> , 2012 , 135, 837-841	4.4	16
177	Manifestation of Anomalous Weak Space-Charge-Density Acentricity for a TlHgBr Single Crystal. <i>Inorganic Chemistry</i> , 2016 , 55, 10547-10557	5.1	16
176	Effect of Coulomb interactions on optoelectronic and magnetic properties of novel A ₂ V ₂ O ₇ (A= Fe and Co) compounds. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 536-545	5.7	16
175	Modification of indole by electron-rich atoms and their application in novel electron donor materials. <i>Chemical Physics Letters</i> , 2017 , 681, 105-109	2.5	15
174	Synthesis and nonlinear optical properties of novel conjugated small molecules based on indole donor. <i>Journal of Molecular Structure</i> , 2018 , 1165, 223-227	3.4	15
173	Physical Properties, Optical band gaps and Radiation Shielding Parameters Exploration for Dy ³⁺ -doped Alkali/Mixed Alkali Multicomponent Borate Glasses. <i>Glass Physics and Chemistry</i> , 2018 , 44, 279-291	0.7	15
172	Erbium-doped fluorotellurite titanate glasses for near infrared broadband amplifiers. <i>Optical Materials</i> , 2018 , 83, 257-262	3.3	15
171	Vibrational properties of the nonlinear optical crystal BaTeMo ₂ O ₉ . <i>Vibrational Spectroscopy</i> , 2013 , 64, 158-163	2.1	15
170	Photoconductivity and nonlinear optical features of novel Ag _x Ga _x Ge _{1-x} Se ₂ crystals. <i>Materials Research Bulletin</i> , 2017 , 85, 74-79	5.1	15
169	Synthesis, structural, X-ray photoelectron spectroscopy (XPS) studies and IR induced anisotropy of Tl ₄ HgI ₆ single crystals. <i>Materials Chemistry and Physics</i> , 2017 , 187, 156-163	4.4	14
168	Growth, structure and optical properties of Tl ₄ HgBr ₆ single crystals. <i>Physica B: Condensed Matter</i> , 2015 , 479, 134-142	2.8	14
167	Photoinduced optical effects in rare earth doped BiB ₃ O ₆ . <i>Materials Letters</i> , 2014 , 122, 114-116	3.3	14

166	Two-photon absorption of $\text{Tl}_{1-x}\text{In}_x\text{Sn}_x\text{Se}_2$ ($x = 0, 0.1, 0.2, 0.25$) single crystalline alloys and their nanocrystallites. <i>Optical Materials</i> , 2013 , 35, 2514-2518	3.3	14
165	Photoinduced features of energy bandgap in quaternary $\text{Cu}_2\text{CdGeS}_4$ crystals. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 505802	1.8	14
164	Effect of electron beam on structural, linear and nonlinear properties of nanostructured Fluorine doped ZnO thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 190-195	3	14
163	Optical and dielectric studies for $\text{Tb}^{3+}/\text{Sm}^{3+}$ co-doped borate glasses for solid-state lighting applications. <i>Optical Materials</i> , 2018 , 86, 387-393	3.3	14
162	A novel approach for tailoring structural, morphological, photoluminescence and nonlinear optical features in spray coated Cu:ZnO nanostructures via e-beam. <i>CrystEngComm</i> , 2018 , 20, 6502-6518	3.3	14
161	Manifestation of up-conversion in $\text{Yb}^{3+}/\text{Tm}^{3+}$ doped $\text{Li}_2\text{O}-\text{ZnO}-\text{SiO}_2$ glass system. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 335-344	1.9	13
160	Growth and piezoelectric features of $\text{La}_2\text{CaB}_{10}\text{O}_{19}$ crystals doped with Pr^{3+} ions. <i>Journal of Crystal Growth</i> , 2012 , 344, 27-30	1.6	13
159	Photo induced anisotropy in the $\text{AgGaGe}_3\text{Se}_8:\text{Cu}$ chalcogenide crystals. <i>Materials Letters</i> , 2013 , 107, 218-220	3.3	13
158	Synthesis and structure of novel $\text{Ag}_2\text{Ga}_2\text{SiSe}_6$ crystals: promising materials for dynamic holographic image recording. <i>RSC Advances</i> , 2016 , 6, 90958-90966	3.7	13
157	Tuning the third-order nonlinear optical properties of In:ZnO thin films by 8 MeV electron beam irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 110, 260-265	3.9	12
156	Effect of Na doping on photoluminescence and laser stimulated nonlinear optical features of ZnO nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2019 , 101, 139-148	4.3	12
155	Tailoring Nd^{3+} luminescence characteristics by Yb^{3+} doping in $\text{K}_5\text{Nd}(\text{MoO}_4)_4$, $\text{RbNd}(\text{WO}_4)_2$ and $\text{NdAl}_3(\text{BO}_3)_4$ crystal matrices. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 577-582	5.7	12
154	Synthesis, structural and NLO properties of the novel copper(I) p-toluenesulfonate E-complex with 1-allyloxybenzotriazole. <i>Chemical Physics Letters</i> , 2018 , 694, 112-119	2.5	12
153	Electronic structure and laser induced piezoelectricity of a new quaternary compound $\text{TlInGe}_3\text{S}_8$. <i>Materials Chemistry and Physics</i> , 2018 , 204, 336-344	4.4	12
152	Fluorescence features of Tm^{3+} -doped multicomponent borosilicate and borotellurite glasses for blue laser and S-band optical amplifier applications. <i>Optical Materials</i> , 2019 , 96, 109354	3.3	12
151	Laser stimulated electrooptics in the Ag_2ZnO nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 61, 23-27	3	12
150	Laser-induced piezoelectricity in $\text{AgGaGe}_3\text{Si}_6\text{Se}_8$ chalcogenide single crystals. <i>EPJ Applied Physics</i> , 2015 , 70, 30501	1.1	12
149	Origin of electronic properties of PbGa_2Se_4 crystal: Experimental and theoretical investigations. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 415-423	5.7	12

- 148 Specific features of fluorescence kinetics of Pr³⁺ doped BiB₃O₆ glasses. *Journal of Alloys and Compounds*, **2012**, 538, 220-223 5.7 12
- 147 Positron annihilation exploration of voids in zinc zirconium borate glass ceramics entrenched with ZnZrO₃ perovskite crystal phases. *Journal of the European Ceramic Society*, **2018**, 38, 2010-2016 6 12
- 146 Synthesis, structural, and electrical characterization of RuO₂ sol-gel spin-coating nano-films. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 10791-10797 2.1 11
- 145 Novel AgGa_{0.95}In_{0.05}Ge₃Se₈ crystalline alloys for light-operated piezoelectricity. *Journal of Alloys and Compounds*, **2016**, 658, 408-413 5.7 11
- 144 Nonlinear optical features of BiB₃O₆/PVA polymer nanocomposites deposited on aluminum-doped zinc oxide substrates containing Ag nanoparticles. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 64, 1-6 3 11
- 143 Microcrystalline Bi₂ZnB₂O₇-polymer composites with silver nanoparticles as materials for laser operated devices. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2426-2434 2.1 11
- 142 Photoinduced nonlinear optical effects in Nd-doped BiB₃O₆ crystals. *Journal of Alloys and Compounds*, **2014**, 610, 82-85 5.7 11
- 141 Role of tautomerism and solvatochromism in UV-VIS spectra of arylhydrazones of diketones. *Journal of Molecular Liquids*, **2012**, 171, 11-15 6 11
- 140 Ellipsometric study of near band gap optical properties of Sr_xBa_{1-x}Nb₂O₆ crystals. *Optical Materials*, **2013**, 35, 887-892 3.3 11
- 139 Novel Quaternary TlGaSn₂Se₆ Single Crystal as Promising Material for Laser Operated Infrared Nonlinear Optical Modulators. *Crystals*, **2017**, 7, 341 2.3 11
- 138 Laser stimulated changes of the effective energy gap in chalcogenide CuInS₂ photovoltaic films. *Materials Science in Semiconductor Processing*, **2015**, 38, 184-187 4.3 11
- 137 Synthesis of amino acid block-copolymer imprinted chiral mesoporous silica and its acoustically-induced optical Kerr effects. *Journal of Solid State Chemistry*, **2012**, 192, 127-131 3.3 11
- 136 Laser-induced piezoelectric effects in chalcogenide crystals. *Physica B: Condensed Matter*, **2013**, 423, 60-63 2.8 11
- 135 Borotellurite Glasses for Gamma-Ray Shielding: An Exploration of Photon Attenuation Coefficients and Structural and Thermal Properties. *Journal of Electronic Materials*, **2019**, 48, 930-941 1.9 11
- 134 Ionicity and birefringence of LiNH₄SO₄ crystals: ab initio DFT study, X-ray spectroscopy measurements. *RSC Advances*, **2017**, 7, 6889-6901 3.7 10
- 133 Nonlinear optical properties of polyaniline and poly (o -toluidine) composite thin films with multi walled carbon nano tubes. *Physica B: Condensed Matter*, **2017**, 512, 45-53 2.8 10
- 132 Laser stimulated piezo-optics of γ -irradiated (Ga₅₅In₄₅)₂S₃₀₀ and (Ga_{54.59}In_{44.66}Er_{0.75})₂S₃₀₀ single crystals. *Journal of Alloys and Compounds*, **2017**, 722, 265-271 5.7 10
- 131 Synthesis, structural, electronic and linear electro-optical features of new quaternary Ag₂Ga₂SiS₆ compound. *Journal of Solid State Chemistry*, **2017**, 246, 363-371 3.3 10

130	Effect of S and Se replacement on electronic and thermoelectric features of BaCu ₂ Ge ₄ (Q± S, Se) chalcogenide crystals. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 666-674	5.7	10
129	Laser stimulated third harmonic generation studies in ZnO:Ta ₂ O ₅ B ₂ O ₃ glass ceramics entrenched with Zn ₃ Ta ₂ O ₈ crystal phases. <i>Optical Materials</i> , 2018 , 76, 90-96	3.3	10
128	NIR and visible luminescence features of erbium doped Ga ₂ S ₃ La ₂ S ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 498, 380-385	3.9	10
127	Ab initio calculations of the electronic structure and specific optical features of LiNH ₄ SO ₄ single crystals. <i>Physica B: Condensed Matter</i> , 2018 , 528, 37-46	2.8	10
126	IR-induced features of AgGaGeS ₄ crystalline semiconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 439-443	3.9	10
125	IR laser induced spectral kinetics of AgGaGe ₃ Se ₈ :Cu chalcogenide crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 142-9	4.4	10
124	Pressure-induced phase transitions in BaTeMo ₂ O ₉ . <i>Journal of Alloys and Compounds</i> , 2013 , 579, 236-242	5.7	10
123	Third order nonlinear optical effects of ZnO:ZrO ₂ B ₂ O ₃ glass ceramics embedded with ZnZrO ₃ perovskite crystal phases. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16403-16414	2.1	10
122	Synthesis and spectral features of Ag ₂ SnS ₃ crystals. <i>Materials Chemistry and Physics</i> , 2012 , 135, 249-253	4.4	10
121	Thallium indium germanium sulphide (TlInGe ₂ S ₆) as efficient material for nonlinear optical application. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1694-1702	5.7	10
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117	Crystallochemical affinity and optical functions of ZrGa ₂ and ZrGa ₃ compounds. <i>Journal of Alloys and Compounds</i> , 2013 , 546, 14-19	5.7	9
116	Physical characteristics of PbO:ZrO ₂ BiO ₂ :TiO ₂ glass ceramics embedded with Pb ₂ Ti ₂ O ₆ cubic pyrochlore crystal phase: Part-II piezo-optical acoustic and elastic properties. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 318-325	5.7	9
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113	Er/Pr-codoped borotellurite glasses as efficient laser operated nonlinear optical materials. <i>Materials Letters</i> , 2018 , 214, 23-25	3.3	9

112	Optically operated second order optical effects in some substituted 4-(5-nitro-1,3-benzoxazol-2-yl)aniline chromophores. <i>Dyes and Pigments</i> , 2017 , 141, 333-341	4.6	8
111	Influence of Al-doped ZnO and Ga-doped ZnO substrates on third harmonic generation of gold nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 71, 91-95	3	8
110	Influence of Cr ³⁺ doping on the enhanced dielectric and nonlinear optical features of pyroelectric Pb ₅ Ge ₃ O ₁₁ single crystals. <i>Materials Chemistry and Physics</i> , 2018 , 213, 461-471	4.4	8
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107	ErBr doped tellurite glass nanocomposites for white light emitting diodes. <i>Optics Communications</i> , 2012 , 285, 655-658	2	8
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17	Photoinduced electro-optics measurements of biosilica transformation to cristobalite. <i>Journal of Solid State Chemistry</i> , 2015 , 226, 231-236	3.3	1
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