

Himanshu Jain

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9280084/publications.pdf>

Version: 2024-02-01

216
papers

4,713
citations

101543

36
h-index

161849

54
g-index

223
all docs

223
docs citations

223
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	TEM and XRD study of early crystallization of lithium disilicate glasses. Journal of Non-Crystalline Solids, 2003, 331, 217-227.	3.1	140
2	Raman and Infrared Structural Investigation of $x\text{Rb}_2\text{O} \cdot (1-x)\text{GeO}_2$ Glasses. The Journal of Physical Chemistry, 1996, 100, 11755-11765.	2.9	136
3	Tracer diffusion and electrical conductivity in sodium-cesium silicate glasses. Journal of Non-Crystalline Solids, 1983, 55, 283-300.	3.1	119
4	Transparent Ferroelectric Glass-Ceramics. Ferroelectrics, 2004, 306, 111-127.	0.6	113
5	Role of S ²⁻ /Se ratio in chemical bonding of As ³⁺ /S ²⁻ glasses investigated by Raman, x-ray photoelectron, and extended x-ray absorption fine structure spectroscopies. Journal of Applied Physics, 2005, 98, 053503.	2.5	91
6	Electrical conductivity of synthetic and natural quartz crystals. Journal of Applied Physics, 1982, 53, 477-484.	2.5	89
7	The mixed alkali effect in lithium-sodium borate glasses. Journal of Non-Crystalline Solids, 1984, 64, 335-349.	3.1	86
8	Direct laser-writing of ferroelectric single-crystal waveguide architectures in glass for 3D integrated optics. Scientific Reports, 2015, 5, 10391.	3.3	83
9	Structure of Se-rich As-Se glasses by high-resolution x-ray photoelectron spectroscopy. Physical Review B, 2007, 76, .	3.2	81
10	Planar chalcogenide glass waveguides for IR evanescent wave sensors. Journal of Non-Crystalline Solids, 2006, 352, 584-588.	3.1	78
11	Millisecond kinetics of photoinduced changes in the optical parameters of As_2S_3 films. Physical Review B, 2006, 74, .	3.2	72
12	Directionally controlled 3D ferroelectric single crystal growth in LaBGeO ₅ glass by femtosecond laser irradiation. Optics Express, 2009, 17, 23284.	3.4	72
13	Structural evolution of LaBGeO ₅ transparent ferroelectric nano-composites. Journal of Non-Crystalline Solids, 2004, 349, 291-298.	3.1	70
14	Nonlinear optical studies of lead lanthanum borate glass doped with Au nanoparticles. Journal of Non-Crystalline Solids, 2012, 358, 1667-1672.	3.1	70
15	A photo-stable chalcogenide glass. Optics Express, 2008, 16, 10565.	3.4	64
16	Atomistic model of physical ageing in Se-rich As ³⁺ /S ²⁻ glasses. Philosophical Magazine, 2007, 87, 4323-4334.	1.6	60
17	X-ray photoelectron spectroscopy of Al- and B-substituted sodium trisilicate glasses. Journal of Non-Crystalline Solids, 1994, 168, 247-257.	3.1	55
18	Observation of light polarization-dependent structural changes in chalcogenide glasses. Applied Physics Letters, 2003, 82, 706-708.	3.3	55

#	ARTICLE	IF	CITATIONS
19	Electrical Conductivity of Silver Vanadium Tellurite Glasses. Journal of the American Ceramic Society, 2002, 85, 2655-2659.	3.8	55
20	Laser-induced structural modification, its mechanisms, and applications in glassy optical materials. Optical Materials Express, 2011, 1, 921.	3.0	55
21	Glasses for lithography. Journal of Non-Crystalline Solids, 2008, 354, 1401-1406.	3.1	54
22	Surface modification of a silicate glass during XPS experiments. Surface and Interface Analysis, 2001, 31, 369-374.	1.8	52
23	Structural model of homogeneous As ⁴⁺ S glasses derived from Raman spectroscopy and high-resolution XPS. Philosophical Magazine, 2010, 90, 4489-4501.	1.6	52
24	In Situ Measurements of X-Ray-Induced Silver Diffusion into a Ge ₃₀ Se ₇₀ Thin Film. Journal of the American Ceramic Society, 2008, 91, 760-765.	3.8	49
25	Optical spectroscopy of a-As ₂ Se ₃ under in situ laser irradiation. Journal of Non-Crystalline Solids, 2006, 352, 595-600.	3.1	48
26	Oxygen incorporation into GST phase-change memory matrix. Applied Surface Science, 2015, 332, 533-541.	6.1	47
27	Creation of Ferroelectric, Single-Crystal Architecture in Sm _{0.5} La _{0.5} BGeO ₅ Glass. Journal of the American Ceramic Society, 2008, 91, 110-114.	3.8	46
28	Electric field-induced softening of alkali silicate glasses. Applied Physics Letters, 2015, 107, .	3.3	46
29	Radiation-induced conductivity in quartz crystals. Journal of Applied Physics, 1982, 53, 485-489.	2.5	44
30	Coexistence of fast photodarkening and slow photobleaching in Ge ₁₉ As ₂₁ Se ₆₀ thin films. Optics Express, 2012, 20, 12416.	3.4	43
31	Incorporation of Ga into the structure of Ge ⁴⁺ Se glasses. Materials Chemistry and Physics, 2013, 138, 909-916.	4.0	43
32	Development of chalcogenide glass photoresists for gray scale lithography. Journal of Non-Crystalline Solids, 2006, 352, 589-594.	3.1	42
33	Structural paradigm of Se-rich Ge ⁴⁺ Se glasses by high-resolution x-ray photoelectron spectroscopy. Journal of Applied Physics, 2009, 105, 103704.	2.5	42
34	Evaluation of 3D nano-macro porous bioactive glass scaffold for hard tissue engineering. Journal of Materials Science: Materials in Medicine, 2011, 22, 1195-1203.	3.6	41
35	Study of structural changes in amorphous As ₂ Se ₃ by EXAFS under in situ laser irradiation. Solid State Communications, 2001, 120, 149-153.	1.9	39
36	Photoinduced volume change in arsenic chalcogenides by band-gap light. Physical Review B, 2006, 74, .	3.2	37

#	ARTICLE	IF	CITATIONS
37	Structural modification of Ge-As-Se amorphous films with the addition of Sb. Philosophical Magazine Letters, 2005, 85, 503-512.	1.2	36
38	An XPS study of the early stages of silver photodiffusion in Ag/a-As ₂ S ₃ films. Journal of Non-Crystalline Solids, 2006, 352, 562-566.	3.1	36
39	Formation of ferroelectric single-crystal architectures in LaBGeO ₅ glass by femtosecond vs. continuous-wave lasers. Journal of Non-Crystalline Solids, 2010, 356, 3059-3065.	3.1	36
40	In situ high-resolution X-ray photoelectron spectroscopy of light-induced changes in As-Ge-Se glasses. Journal of Non-Crystalline Solids, 2000, 274, 115-123.	3.1	35
41	Nanoporosity Significantly Enhances the Biological Performance of Engineered Glass Tissue Scaffolds. Tissue Engineering - Part A, 2013, 19, 1632-1640.	3.1	35
42	Impurity Alkali Diffusion in Sodium-Cesium Silicate Glasses. Journal of the American Ceramic Society, 1983, 66, 174-176.	3.8	32
43	Photoinduced changes in the surface morphology of As ₅₀ Se ₅₀ chalcogenide glass films. Optical Materials, 2001, 17, 453-458.	3.6	32
44	Role of Ge:As ratio in controlling the light-induced response of a-Ge _x As ₃₅ -xSe ₆₅ thin films. Scientific Reports, 2014, 4, 4029.	3.3	32
45	The structure of potassium germanate glasses by EXAFS. Journal of Non-Crystalline Solids, 1996, 196, 155-161.	3.1	31
46	Photoinduced transparency of effective three-photon absorption coefficient for femtosecond laser pulses in Ge ₁₆ As ₂₉ Se ₅₅ thin films. Applied Physics Letters, 2011, 98, 201111.	3.3	31
47	Structure and nonlinear optical studies of Au nanoparticles embedded in lead lanthanum borate glass. Journal of Non-Crystalline Solids, 2014, 406, 107-110.	3.1	31
48	Creation of tailored features by laser heating of Nd _{0.2} La _{0.8} BGeO ₅ glass. Optical Materials, 2006, 29, 355-359.	3.6	30
49	Fabrication of nano-gratings in arsenic sulphide films. Journal of Non-Crystalline Solids, 2007, 353, 1427-1430.	3.1	30
50	Demonstration of single crystal growth via solid-solid transformation of a glass. Scientific Reports, 2016, 6, 23324.	3.3	30
51	Fabrication of graded index single crystal in glass. Scientific Reports, 2017, 7, 44327.	3.3	30
52	Femtosecond laser-writing of 3D crystal architecture in glass: Growth dynamics and morphological control. Materials and Design, 2018, 146, 228-238.	7.0	30
53	Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. Journal of Materials Research, 2009, 24, 3495-3502.	2.6	29
54	Multilayer aberration correction for depth-independent three-dimensional crystal growth in glass by femtosecond laser heating. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1234.	2.1	29

#	ARTICLE	IF	CITATIONS
55	Composition dependence of low-frequency excitations in lithium silicophosphate glasses by nuclear magnetic resonance and electrical conductivity. <i>Physical Review B</i> , 1997, 55, 14836-14846.	3.2	28
56	Laser fabrication of semiconducting ferroelectric single crystal SbSI features on chalcogenide glass. <i>Optical Materials Express</i> , 2011, 1, 652.	3.0	27
57	Photoinduced changes in the electronic structure of As ₂ Se ₃ glass. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 248-256.	3.1	26
58	Structure and photoinduced changes in bulk and films of As-Ge-S system. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 220-225.	3.1	26
59	Coordination defects in bismuth-modified arsenic selenide glasses: High-resolution x-ray photoelectron spectroscopy measurements. <i>Physical Review B</i> , 2008, 77, .	3.2	26
60	X-ray photoelectron spectroscopy analysis of bulk Pd-Ni-P metallic glasses. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 239-247.	0.6	25
61	Kinetics and chemical analysis of photoinduced interdiffusion in nanolayered Se/As ₂ S ₃ films. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	25
62	Photoinduced changes in the electronic structure of As ₄ Se ₃ glass. <i>Journal of Non-Crystalline Solids</i> , 2004, 349, 162-167.	3.1	24
63	A Study of Reversible ¹³ C-Induced Structural Transformations in Vitreous Ge _{23.5} Sb _{11.8} S _{64.7} by High-Resolution X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22930-22934.	2.6	24
64	Structure of Na ₂ O-CaO-P ₂ O ₅ -SiO ₂ Glass-Ceramics with Multimodal Porosity. <i>Journal of the American Ceramic Society</i> , 2009, 92, 249-252.	3.8	24
65	Writing of rare-earth ion doped lithium niobate line patterns in glass by laser scanning. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 1, 012006.	0.6	24
66	Influence of phase separation on the devitrification of 45S5 bioglass. <i>Acta Biomaterialia</i> , 2014, 10, 4878-4886.	8.3	24
67	Nuclear Spin Relaxation. Nuclear Spin Relaxation and Electrical Conductivity in Lithium Germanate Glasses. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991, 95, 1061-1068.	0.9	23
68	Comparative study of electron- and photo-induced structural transformations on the surface of As ₃₅ S ₆₅ amorphous thin films. <i>Thin Solid Films</i> , 2008, 516, 7511-7518.	1.8	23
69	Evolution of chemical structure during silver photodiffusion into chalcogenide glass thin films. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1924-1929.	3.1	23
70	Temperature-dependent structural relaxation in As ₄₀ Se ₆₀ glass. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3032-3036.	2.1	23
71	Mechanism of electric field-induced softening (EFIS) of alkali silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2017, 471, 384-395.	3.1	23
72	A comprehensive view of the local structure around Rb in rubidium germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 203, 320-328.	3.1	22

#	ARTICLE	IF	CITATIONS
73	Structure of $Sb_xGe_{40-x}Se_{60}$ glasses around 2.67 average coordination number. Journal of Non-Crystalline Solids, 2012, 358, 163-167.	3.1	22
74	Rotating lattice single crystal architecture on the surface of glass. Scientific Reports, 2016, 6, 36449.	3.3	22
75	Non-classical diffusion of lithium in lithium borate glasses. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1982, 46, 351-355.	0.6	21
76	In search of energy landscape for network glasses. Applied Physics Letters, 2011, 98, .	3.3	21
77	Electron-beam induced growth of Cu nanoparticles in silica glass matrix. Applied Physics Letters, 1999, 75, 3793-3795.	3.3	20
78	Influence of modifier oxides on the structural and optical properties of binary TeO_2 glasses. Journal of Applied Physics, 2007, 101, 023526.	2.5	20
79	Depletion Layer Formation in Alkali Silicate Glasses by Electro-Thermal Poling. Journal of the Electrochemical Society, 2016, 163, H809-H817.	2.9	20
80	Bioglass in Alveolar Bone Regeneration in Orthodontic Patients. JDR Clinical and Translational Research, 2016, 1, 244-255.	1.9	20
81	Electronic Structure of Glassy Chalcogenides As_4Se_4 and As_2Se_3 : A Joint Theoretical and Experimental Study. Physical Review Letters, 2002, 88, 046803.	7.8	19
82	Structure of alkali tungsten tellurite glasses by X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2004, 349, 60-65.	3.1	19
83	Liquid Phase Sintering of Alumina, I. Microstructure Evolution and Densification. Journal of the American Ceramic Society, 2005, 88, 1702-1707.	3.8	19
84	Chemical origin of polarization-dependent photoinduced changes in an As_2S_3 film via <i>in situ</i> synchrotron x-ray photoelectron spectroscopy. Physical Review B, 2009, 79, .	3.2	19
85	Complex structural rearrangements in As-Se glasses. Journal of Chemical Physics, 2014, 140, 054505.	3.0	19
86	Prospects of antibacterial bioactive glass nanofibers for wound healing: An <i>in vitro</i> study. International Journal of Applied Glass Science, 2020, 11, 320-328.	2.0	19
87	Creation of Nano/Macro-Interconnected Porosity in a Bioactive Glass/Ceramic by the Melt-Quench-Heat-Etch Method. Journal of the American Ceramic Society, 2007, 90, 1934-1936.	3.8	18
88	High Surface Area Nanomacroporous Bioactive Glass Scaffold for Hard Tissue Engineering. Journal of the American Ceramic Society, 2010, 93, 3002-3005.	3.8	18
89	Short-range order evolution in S-rich $Ge-S$ glasses by X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 1797-1803.	3.1	18
90	<i>In vitro</i> Degradation and Bioactivity of Tailored Amorphous Multi Porous Scaffold Structure. Journal of the American Ceramic Society, 2012, 95, 2687-2694.	3.8	18

#	ARTICLE	IF	CITATIONS
91	Study of low-frequency excitations in disordered solids by nuclear magnetic resonance and electrical conductivity. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 1277-1284.	3.1	17
92	Atomistic observation of photo-expansion and photo-contraction in chalcogenide films by in situ EXAFS. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2673-2678.	3.1	17
93	Nano/macroporous monolithic scaffolds prepared by the sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 42-47.	2.4	17
94	Effect of the interface glass on electrical performance of screen printed Ag thick-film contacts of Si solar cells. <i>Thin Solid Films</i> , 2010, 518, e111-e113.	1.8	17
95	Study of Ga incorporation in glassy arsenic selenides by high-resolution XPS and EXAFS. <i>Journal of Chemical Physics</i> , 2015, 142, 184501.	3.0	17
96	Cation Interdiffusion in Polycrystalline Calcium and Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 1991, 74, 772-776.	3.8	16
97	Low-temperature dynamics of inorganic glasses Electrical conductivity against nuclear spin relaxation. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 70, 1045-1061.	0.6	16
98	Effect of devitrification on the ionic diffusion of Li-disilicate. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 202-207.	3.1	16
99	Influence of Bi on topological self-organization in arsenic and germanium selenide networks. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6677.	5.5	16
100	Crystallization of Stoichiometric $\langle \text{SbSI} \rangle$ Glass. <i>Journal of the American Ceramic Society</i> , 2014, 97, 198-205.	3.8	16
101	Nanosecond light induced, thermally tunable transient dual absorption bands in a-Ge ₅ As ₃₀ Se ₆₅ thin film. <i>Scientific Reports</i> , 2015, 4, 6573.	3.3	16
102	Engineering the optical response of a-Se thin films by employing morphological disorder. <i>Optics Express</i> , 2015, 23, 14085.	3.4	16
103	Development of highly inhomogeneous temperature profile within electrically heated alkali silicate glasses. <i>Scientific Reports</i> , 2019, 9, 2805.	3.3	16
104	Nanostructure of bioactive glass affects bone cell attachment via protein restructuring upon adsorption. <i>Scientific Reports</i> , 2021, 11, 5763.	3.3	16
105	Study of light-induced vector changes in the local atomic structure of As-Se glasses by EXAFS. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 257-262.	3.1	15
106	Structural evolution of Ga-Ge-Te glasses by combined EXAFS and XPS analysis. <i>Journal of Chemical Physics</i> , 2013, 139, 054508.	3.0	15
107	Chemical order in Ge _x As _y Se _{1-x-y} glasses probed by high resolution X-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
108	Role of local structure in the phase change of Ge-Se-Te films. <i>Chemical Physics Letters</i> , 2012, 534, 58-61.	2.6	14

#	ARTICLE	IF	CITATIONS
109	Role of photothermal effect in photoexpansion of chalcogenide glasses. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 983-987.	1.5	14
110	Challenges of CW laser-induced crystallization in a chalcogenide glass. <i>Optical Materials Express</i> , 2013, 3, 1026.	3.0	14
111	Laser Fabrication of Two-Dimensional Rotating-Lattice Single Crystal. <i>Crystal Growth and Design</i> , 2017, 17, 1735-1746.	3.0	14
112	New bioactive glass scaffolds with exceptional qualities for bone tissue regeneration: response of osteoblasts and osteoclasts. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 025005.	3.3	14
113	Chemical order in Ga or Sb modified germanium sulfide glasses around stoichiometry: High-resolution XPS and Raman studies. <i>Journal of Non-Crystalline Solids</i> , 2018, 499, 237-244.	3.1	14
114	Giant enhancement of nonlinear absorption in graphene oxide/Sb ₂ Se ₃ nanowire heterostructure. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	14
115	Liquid Phase Sintering of Alumina, II. Penetration of Liquid Phase into Model Microstructures. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1708-1713.	3.8	13
116	Kinetics of photodarkening in a-As ₂ Se ₃ thin films. <i>Journal of Applied Physics</i> , 2009, 105, 123105.	2.5	13
117	Low-Energy Ion Scattering spectroscopy of silicate glass surfaces. <i>Journal of Non-Crystalline Solids</i> , 2014, 385, 124-128.	3.1	13
118	In situ measurements of photoexpansion in $A_s B_{2-s} S_{3-s}$ glass by atomic force microscopy. <i>Optical Materials</i> , 2019, 94, 9-14.	3.6	13
119	Anomalous expansion of sodium triborate melt and its effect on glass properties. <i>Journal of Non-Crystalline Solids</i> , 1993, 162, 107-117.	3.1	12
120	Effect of devitrification on ion motion in lithium-disilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3940-3946.	3.1	12
121	On the mechanism of gray scale patterning of Ag-containing As ₂ S ₃ thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 920-925.	4.0	12
122	Optical properties and structure of Er:LaBGeO ₅ laser-induced crystals-in-glass. <i>Optical Materials Express</i> , 2017, 7, 4095.	3.0	12
123	New evidence for the point defect model of ion transport in glasses. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3232-3236.	2.8	11
124	Influence of the Manufacturing Process on Corrosion Behavior of Soda-Lime-Silicate Glassware. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1669-1676.	3.8	11
125	Low-Temperature ac Conductivity of Mixed Mobile Ion Germanate Glasses. <i>Journal of the American Ceramic Society</i> , 1997, 80, 517-520.	3.8	11
126	Phase Separation and Structural Differences between Alkali Silicate Glasses Prepared by the Sol-Gel and Melt-Quench Methods. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2360-2370.	3.8	11

#	ARTICLE	IF	CITATIONS
127	Structural organization of As-rich selenide glasses. Solid State Communications, 2013, 165, 22-26.	1.9	11
128	Structural features of spin-coated thin films of binary As ⁺ chalcogenide glass system. Thin Solid Films, 2015, 589, 642-648.	1.8	11
129	Comparative study of atomic arrangements in equiatomic GeSe and GeTe films before and after crystallization. Journal of Alloys and Compounds, 2016, 686, 273-280.	5.5	11
130	Molecular dynamics simulation of the effect of cooling rate on the structure and properties of lithium disilicate glass. Journal of Non-Crystalline Solids, 2021, 569, 120991.	3.1	11
131	Liquid Phase Sintering of Alumina, III. Effect of Trapped Gases in Pores on Densification. Journal of the American Ceramic Society, 2005, 88, 1714-1719.	3.8	10
132	Unexpected influence of focal depth on nucleation during femtosecond laser crystallization of glass. Optical Materials Express, 2011, 1, 990.	3.0	10
133	Toward understanding the second universality – A journey inspired by Arthur Stanley Nowick. Journal of Electroceramics, 2015, 34, 4-14.	2.0	10
134	EXAFS spectroscopic refinement of amorphous structures of evaporation-deposited Ge ⁺ Se films. Journal of Alloys and Compounds, 2015, 622, 189-193.	5.5	10
135	Structural origin of surface transformations in arsenic sulfide thin films upon UV-irradiation. Applied Surface Science, 2017, 394, 604-612.	6.1	10
136	Challenges of Laser-Induced Single-Crystal Growth in Glass: Incongruent Matrix Composition and Laser Scanning Rate. Crystal Growth and Design, 2019, 19, 4489-4497.	3.0	10
137	Evolution of glass structure during femtosecond laser assisted crystallization of LaBGeO ₅ in glass. Journal of Non-Crystalline Solids, 2021, 551, 120396.	3.1	10
138	AC Conductivity of Crystalline Materials and Glasses Ascribed to ADWPs. Materials Research Society Symposia Proceedings, 1995, 411, 99.	0.1	9
139	Nearly constant loss behavior of lithium disilicate during devitrification. Journal of Non-Crystalline Solids, 2002, 307-310, 1031-1038.	3.1	9
140	Combined high-resolution XPS and EXAFS study of Ag photodissolution in a-As ₂ S ₃ thin film. Journal of Non-Crystalline Solids, 2010, 356, 2332-2336.	3.1	9
141	Investigation of interdiffusion in Sb/As ₂ S ₃ nano-layered structures by high-resolution X-ray photoelectron spectroscopy. Thin Solid Films, 2011, 519, 3437-3442.	1.8	9
142	Positron annihilation lifetime spectroscopy of nano/macroporous bioactive glasses. Journal of Materials Research, 2012, 27, 2561-2567.	2.6	9
143	Formation of Ferroelectric Phases in Sb ⁺ Glasses. Journal of the American Ceramic Society, 2014, 97, 3458-3462.	3.8	9
144	In ⁺ Situ Raman Spectroscopy Study of Photoinduced Structural Changes in Ge ⁺ rich Chalcogenide Films. Journal of the American Ceramic Society, 2014, 97, 1421-1424.	3.8	9

#	ARTICLE	IF	CITATIONS
145	Peculiarities of Ga and Te incorporation in glassy arsenic selenides. <i>Journal of Non-Crystalline Solids</i> , 2015, 429, 104-111.	3.1	9
146	Kinetics of photo-dissolution within Ag/As ₂ S ₃ heterostructure. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 468-474.	3.1	9
147	Ferroelectric domain engineering of lithium niobate single crystal confined in glass. <i>MRS Communications</i> , 2019, 9, 334-339.	1.8	9
148	Effects of Titanium Implant Surface Topology on Bone Cell Attachment and Proliferation in vitro. <i>Medical Devices: Evidence and Research</i> , 2022, Volume 15, 103-119.	0.8	9
149	Ionic-to-electronic conductivity transition in an oxide glass doped with gold. <i>Applied Physics Letters</i> , 2009, 95, 142908.	3.3	8
150	Monolithic Glass Scaffolds with Dual Porosity Prepared by Polymer-Induced Phase Separation and Sol-Gel. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1945-1949.	3.8	8
151	Structure of GeS ₂ -SbSI Glasses by Raman Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2932-2934.	3.8	8
152	High-Resolution X-ray Photoelectron Spectroscopy Study of Photo-Oxidation of Amorphous Oxy-Chalcogenide Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24590-24595.	3.1	8
153	Direct investigation of silver photodissolution dynamics and reversibility in arsenic trisulphide thin films by atomic force microscopy. <i>Nanotechnology</i> , 2013, 24, 125706.	2.6	8
154	Laser-induced growth of oriented Sb ₂ S ₃ single crystal dots on the surface of 82SbSI-18Sb ₂ S ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 431, 36-40.	3.1	8
155	Role of phase separation on the biological performance of 45S5 Bioglass®. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 161.	3.6	8
156	Valence band structure of binary chalcogenide vitreous semiconductors by high-resolution XPS. <i>Semiconductors</i> , 2011, 45, 423-426.	0.5	7
157	Formation of laser-induced SbSI single crystal architecture in Sb-S glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 377, 245-249.	3.1	7
158	Wavelength Dependence of Photostructural Transformations in As ₂ S ₃ Thin Films. <i>Physics Procedia</i> , 2013, 44, 75-81.	1.2	7
159	Photoinduced formation of Ag nanoparticles on the surface of As ₂ S ₃ /Ag thin bilayer. <i>Materials Research Express</i> , 2014, 1, 045025.	1.6	7
160	Coexistence of photodarkening and photobleaching in Ge-Sb-Se thin films. <i>Journal of Non-Crystalline Solids</i> , 2017, 478, 23-28.	3.1	7
161	XPS Characterization of In situ Prepared Ti/Glass Interfaces. <i>Surface and Interface Analysis</i> , 1996, 24, 113-118.	1.8	6
162	Nanoscale surface heterogeneities and glass durability. <i>Journal of Non-Crystalline Solids</i> , 2002, 311, 93-98.	3.1	6

#	ARTICLE	IF	CITATIONS
163	Chalcogenide glass thin film resists for grayscale lithography. Proceedings of SPIE, 2009, , .	0.8	6
164	Millisecond kinetics of photo-darkening/bleaching in $x\text{Ge}_{45}\text{Se}_{55}-(1-x)\text{As}_{45}\text{Se}_{55}$ chalcogenide amorphous films. Journal of Applied Physics, 2012, 112, .	2.5	6
165	Fabrication of nano-macroporous glass-ceramic bioscaffold with a water soluble pore former. Journal of Materials Science: Materials in Medicine, 2012, 23, 307-314.	3.6	6
166	Structural basis of temperature-dependent electrical resistance of evaporation-deposited amorphous GeSe film. Scripta Materialia, 2014, 86, 56-59.	5.2	6
167	Selective growth of gold nanostructures on locally amorphized silicon. Journal of the Ceramic Society of Japan, 2014, 122, 543-546.	1.1	6
168	Electric field-induced softening of alkali silicate glasses. Journal of the American Ceramic Society, 2018, 101, 2277-2286.	3.8	6
169	Influence of nanoporosity on the nature of hydroxyapatite formed on bioactive calcium silicate model glass. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 886-899.	3.4	6
170	Optimizing The Metalloid Content in Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 1999, 580, 277.	0.1	5
171	Development of nano-macroporous soda-lime phosphofluorosilicate bioactive glass and glass-ceramics. Journal of Materials Science: Materials in Medicine, 2009, 20, 1409-1418.	3.6	5
172	Electronic and atomic structure of amorphous thin films with high-resolution XPS: Examples of applications & limitations. Journal of Non-Crystalline Solids, 2013, 377, 155-158.	3.1	5
173	Strong exciton-localized plasmon coupling in a- $\text{Ge}_{24}\text{Se}_{76}/\text{AuNP}$ heterostructure. APL Materials, 2016, 4, 106105.	5.1	5
174	The charge state of titanium ions in Pd-doped Ti: CMAS glass and glass-ceramics. Journal of the American Ceramic Society, 2017, 100, 2568-2581.	3.8	5
175	The source of lattice rotation in rotating lattice single (RLS) crystals. Scripta Materialia, 2021, 193, 22-26.	5.2	5
176	Determination of the structure of lithium niobosilicate glasses by molecular dynamics simulation with a new Nb-O potential. Computational Materials Science, 2022, 207, 111307.	3.0	5
177	Modelling of dissolution kinetics of thin amorphous chalcogenide films. Philosophical Magazine Letters, 2009, 89, 370-376.	1.2	4
178	Self-Reversible Photodarkening of the Mixed $\text{GeS}_2\text{-SbSI}$ Glasses. Journal of the American Ceramic Society, 2011, 94, 1657-1660.	3.8	4
179	Fabrication of single crystal architecture in Sb-S-I glass: Transition from dot to line. Journal of Non-Crystalline Solids, 2018, 501, 43-48.	3.1	4
180	Influence of the Laser Scanning Rate on the Structure of Rotating Lattice Single Crystal Lines. Crystal Growth and Design, 2019, 19, 6324-6330.	3.0	4

#	ARTICLE	IF	CITATIONS
181	Effects of Surface Orientation and Termination Plane on Glassâ€™Crystal Transformation of Lithium Disilicate by Molecular Dynamics Simulations. Physica Status Solidi (B): Basic Research, 2021, 258, 2000427.	1.5	4
182	Curved lattices of crystals formed in glass. International Journal of Applied Glass Science, 0, , .	2.0	4
183	Inhomogeneous evolution of a glass surface via free, rapid expansion. Applied Physics Letters, 2003, 83, 2802-2804.	3.3	3
184	Inhomogeneous glass surfaces resulting from rapid forming operations â€™ evidence from differential corrosion. Journal of Non-Crystalline Solids, 2004, 341, 101-109.	3.1	3
185	Chalcogenide glass resists for lithography. , 2014, , 562-596.		3
186	Nature of Pd and Ti Metals in the Structure of ^{CMAS} Glass and Ceramics. Journal of the American Ceramic Society, 2014, 97, 1971-1978.	3.8	3
187	The Structure of Ga _{1-x} Sb _x Se Glasses by High-Resolution X-Ray Photoelectron Spectroscopy. Physica Status Solidi (B): Basic Research, 2021, 258, 2100074.	1.5	3
188	Potential of tailored amorphous multiporous calcium silicate glass for pulp capping regenerative endodonticsâ€™A preliminary assessment. Journal of Dentistry, 2021, 109, 103655.	4.1	3
189	Polarization and Surface Effects on the Seed Orientation of Laser-Induced Sb ₂ S ₃ Crystals on Sb-Sl Glass. Crystal Growth and Design, 2021, 21, 4276-4284.	3.0	3
190	Ovonic threshold switching induced local atomic displacements in amorphous Ge ₆₀ Se ₄₀ film probed via in situ EXAFS under DC electric field. Journal of Non-Crystalline Solids, 2021, 568, 120955.	3.1	3
191	Fabrication of Nano-Macro Porous Soda-Lime Phosphosilicate Bioactive Glass by the Melt-Quench Method. , 0, , 183-196.		3
192	Fabrication of chalcogenide glass waveguide for IR evanescent wave sensors. , 2004, 5593, 637.		2
193	Editorial for JECR special issue on defects & relaxation processes in crystalline and amorphous solids. Journal of Electroceramics, 2015, 34, 1-3.	2.0	2
194	Effect of tin and gold on sodium ion movement in a sodium silicate glass. Journal of Electroceramics, 2015, 34, 57-62.	2.0	2
195	Effect of Laser Beam Profile on Rotating Lattice Single Crystal Growth in Sb ₂ S ₃ Model Glass. Crystals, 2021, 11, 36.	2.2	2
196	The role of glass composition in the 3D laser fabrication of lithium niobate single crystal in lithium niobosilicate glass. Optical Materials, 2022, 128, 112380.	3.6	2
197	Study of ionic diffusion in Li-germanate glasses by nuclear spin relaxation and electrical conductivity. Radiation Effects and Defects in Solids, 1991, 119-121, 123-128.	1.2	1
198	Amorphous Materials: Atomic Diffusion. , 2001, , 166-170.		1

#	ARTICLE	IF	CITATIONS
199	In situ study of rotating lattice single-crystal formation in Sb ₂ S ₃ glass by Laue μ XRD. Journal of the American Ceramic Society, 2020, 103, 3954-3961.	3.8	1
200	Dynamics of structural relaxation in bioactive 45S5 glass. Journal of Physics Condensed Matter, 2020, 32, 295401.	1.8	1
201	Electrical Conduction in Relation to Local and Intermediate Range Structure of Rubidium Germanate Glasses. Materials Research Society Symposia Proceedings, 1995, 411, 143.	0.1	0
202	Dielectric Constant of Sodium Silicate Glasses in Relation to Their Chemical Structure. Materials Research Society Symposia Proceedings, 1995, 411, 209.	0.1	0
203	A Low Frequency Study of the Vibrational Modes in Alkalisilicate Glasses by Raman Spectroscopy. Materials Research Society Symposia Proceedings, 1995, 407, 215.	0.1	0
204	Exelfs of Metallic Glasses. Materials Research Society Symposia Proceedings, 1998, 554, 31.	0.1	0
205	Exelfs As A Tool For Investigating The Local Structure Of Bulk Glass-Forming Metal Alloys. Microscopy and Microanalysis, 1999, 5, 138-139.	0.4	0
206	Analysis of Extended Energy-Loss Fine Structure of Nanometerscale Clusters. Microscopy and Microanalysis, 1999, 5, 708-709.	0.4	0
207	Analysis of the Structure of Bulk Metallic Glasses Using EXELFST. Microscopy and Microanalysis, 2000, 6, 194-195.	0.4	0
208	Measured and Calculated Electronic Structure of Ni _{0.40} Pd _{0.40} Po _{0.20} and Cu _{0.40} Pd _{0.40} Po _{0.20} . Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
209	Exelfs and Exafs: Complementary Probes into the Structure of Metallic Glasses. Microscopy and Microanalysis, 2002, 8, 608-609.	0.4	0
210	Investigation of vibrational modes of SiO ₂ and LaBGeO ₅ using a frequency-tunable terahertz source. Journal of Non-Crystalline Solids, 2010, 356, 419-421.	3.1	0
211	Engineering of refractive index in sulfide chalcogenide glass by direct laser writing. , 2010, , .		0
212	A Festschrift to Professor E C Subbarao on the occasion of his 90th Birthday. Transactions of the Indian Institute of Metals, 2019, 72, 1959-1960.	1.5	0
213	Single Crystal Growth via Solid-Solid Transformation of Glass. Transactions of the Indian Institute of Metals, 2019, 72, 1971-1979.	1.5	0
214	Athermal electric field-induced restructuring of glass during poling. Journal of the American Ceramic Society, 2021, 104, 2588-2599.	3.8	0
215	Entropy engineering in inorganic non-metallic glass. Fundamental Research, 2022, , .	3.3	0
216	Effect of Zinc on Bioactivity of Nano-Macroporous Soda-Lime Phosphofluorosilicate Glass-Ceramic. Ceramic Engineering and Science Proceedings, 0, , 179-189.	0.1	0