Himanshu Jain

List of Publications by Year
in descending order

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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	Entropy engineering in inorganic non-metallic glass. Fundamental Research, 2022, , .	3.3	0
2	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
3	Effects of Titanium Implant Surface Topology on Bone Cell Attachment and Proliferation in vitro. Medical Devices: Evidence and Research, 2022, Volume 15, 103-119.	0.8	9
4	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
5	Effects of Surface Orientation and Termination Plane on Glassâ€toâ€Crystal Transformation of Lithium Disilicate by Molecular Dynamics Simulations. Physica Status Solidi (B): Basic Research, 2021, 258, 2000427.	1.5	4
6	Evolution of glass structure during femtosecond laser assisted crystallization of LaBGeO5 in glass. Journal of Non-Crystalline Solids, 2021, 551, 120396.	3.1	10
7	The source of lattice rotation in rotating lattice single (RLS) crystals. Scripta Materialia, 2021, 193, 22-26.	5.2	5
8	Athermal electric fieldâ€induced restructuring of glass during poling. Journal of the American Ceramic Society, 2021, 104, 2588-2599.	3.8	0
9	Nanostructure of bioactive glass affects bone cell attachment via protein restructuring upon adsorption. Scientific Reports, 2021, 11, 5763.	3.3	16
10	The Structure of Gaï£¿Sbï£¿Se Glasses by Highâ€Resolution Xâ€Ray Photoelectron Spectroscopy. Physica Status Solidi (B): Basic Research, 2021, 258, 2100074.	1.5	3
11	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
12	Polarization and Surface Effects on the Seed Orientation of Laser-Induced Sb₂S₃ Crystals on Sb-S-I Glass. Crystal Growth and Design, 2021, 21, 4276-4284.	3.0	3
13	Ovonic threshold switching induced local atomic displacements in amorphous Ge60Se40 film probed via in situ EXAFS under DC electric field. Journal of Non-Crystalline Solids, 2021, 568, 120955.	3.1	3
14	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
15	Effect of Laser Beam Profile on Rotating Lattice Single Crystal Growth in Sb2S3 Model Glass. Crystals, 2021, 11, 36.	2.2	2
16	In situ study of rotating lattice singleâ€crystal formation in Sb 2 S 3 glass by Laue Î¼XRD. Journal of the American Ceramic Society, 2020, 103, 3954-3961.	3.8	1
17	Prospects of antibacterial bioactive glass nanofibers for wound healing: An in vitro study. International Journal of Applied Glass Science, 2020, 11, 320-328.	2.0	19
18	Dynamics of structural relaxation in bioactive 45S5 glass. Journal of Physics Condensed Matter, 2020, 32, 295401.	1.8	1

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19	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
20	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
21	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
22	Ferroelectric domain engineering of lithium niobate single crystal confined in glass. MRS Communications, 2019, 9, 334-339.	1.8	9
23	In situ measurements of photoexpansion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><mml:m glass by atomic force microscopy. Optical Materials, 2019, 94, 9-14.	3.6	13
24	Single Crystal Growth via Solidâ€‰â†'â€‰Solid Transformation of Glass. Transactions of the Indian Institute of Metals, 2019, 72, 1971-1979.	1.5	0
25	Development of highly inhomogeneous temperature profile within electrically heated alkali silicate glasses. Scientific Reports, 2019, 9, 2805.	3.3	16
26	Giant enhancement of nonlinear absorption in graphene oxideâ€”Sb2Se3 nanowire heterostructure. Journal of Applied Physics, 2019, 125, .	2.5	14
27	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
28	<scp>AC</scp> electric fieldâ€induced softening of alkali silicate glasses. Journal of the American Ceramic Society, 2018, 101, 2277-2286.	3.8	6
29	Femtosecond laser-writing of 3D crystal architecture in glass: Growth dynamics and morphological control. Materials and Design, 2018, 146, 228-238.	7.0	30
30	New bioactive glass scaffolds with exceptional qualities for bone tissue regeneration: response of osteoblasts and osteoclasts. Biomedical Materials (Bristol), 2018, 13, 025005.	3.3	14
31	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
32	Kinetics of photo-dissolution within Ag/As2S3 heterostructure. Journal of Non-Crystalline Solids, 2018, 500, 468-474.	3.1	9
33	Chemical order in Ga or Sb modified germanium sulfide glasses around stoichiometry: High-resolution XPS and Raman studies. Journal of Non-Crystalline Solids, 2018, 499, 237-244.	3.1	14
34	Fabrication of graded index single crystal in glass. Scientific Reports, 2017, 7, 44327.	3.3	30
35	The charge state of titanium ions in Pdâ€doped Ti: CMAS glass and glassâ€ceramics. Journal of the American Ceramic Society, 2017, 100, 2568-2581.	3.8	5
36	Laser Fabrication of Two-Dimensional Rotating-Lattice Single Crystal. Crystal Growth and Design, 2017, 17, 1735-1746.	3.0	14

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37	Coexistence of photodarkening and photobleaching in Ge-Sb-Se thin films. Journal of Non-Crystalline Solids, 2017, 478, 23-28.	3.1	7
38	Role of phase separation on the biological performance of 45S5 BioglassÂ®. Journal of Materials Science: Materials in Medicine, 2017, 28, 161.	3.6	8
39	Mechanism of electric field-induced softening (EFIS) of alkali silicate glasses. Journal of Non-Crystalline Solids, 2017, 471, 384-395.	3.1	23
40	Structural origin of surface transformations in arsenic sulfide thin films upon UV-irradiation. Applied Surface Science, 2017, 394, 604-612.	6.1	10
41	Optical properties and structure of Er:LaBGeO_5 laser-induced crystals-in-glass. Optical Materials Express, 2017, 7, 4095.	3.0	12
42	Strong exciton-localized plasmon coupling in a-Ge₂₄Se₇₆/AuNP heterostructure. APL Materials, 2016, 4, 106105.	5.1	5
43	Laser-induced growth of oriented Sb2S3 single crystal dots on the surface of 82SbSIâ€“18Sb2S3 glasses. Journal of Non-Crystalline Solids, 2016, 431, 36-40.	3.1	8
44	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
45	Depletion Layer Formation in Alkali Silicate Glasses by Electro-Thermal Poling. Journal of the Electrochemical Society, 2016, 163, H809-H817.	2.9	20
46	Bioglass in Alveolar Bone Regeneration in Orthodontic Patients. JDR Clinical and Translational Research, 2016, 1, 244-255.	1.9	20
47	Demonstration of single crystal growth via solid-solid transformation of a glass. Scientific Reports, 2016, 6, 23324.	3.3	30
48	Rotating lattice single crystal architecture on the surface of glass. Scientific Reports, 2016, 6, 36449.	3.3	22
49	Electric field-induced softening of alkali silicate glasses. Applied Physics Letters, 2015, 107, .	3.3	46
50	Nanosecond light induced, thermally tunable transient dual absorption bands in a-Ge5As30Se65 thin film. Scientific Reports, 2015, 4, 6573.	3.3	16
51	Direct laser-writing of ferroelectric single-crystal waveguide architectures in glass for 3D integrated optics. Scientific Reports, 2015, 5, 10391.	3.3	83
52	Oxygen incorporation into GST phase-change memory matrix. Applied Surface Science, 2015, 332, 533-541.	6.1	47
53	Editorial for JECR special issue on defects & relaxation processes in crystalline and amorphous solids. Journal of Electroceramics, 2015, 34, 1-3.	2.0	2
54	Structural features of spin-coated thin films of binary AsSâ˜’ chalcogenide glass system. Thin Solid Films, 2015, 589, 642-648.	1.8	11

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55	Study of Ga incorporation in glassy arsenic selenides by high-resolution XPS and EXAFS. Journal of Chemical Physics, 2015, 142, 184501.	3.0	17
56	Engineering the optical response of a-Se thin films by employing morphological disorder. Optics Express, 2015, 23, 14085.	3.4	16
57	Peculiarities of Ga and Te incorporation in glassy arsenic selenides. Journal of Non-Crystalline Solids, 2015, 429, 104-111.	3.1	9
58	Toward understanding the second universalityâ€"A journey inspired by Arthur Stanley Nowick. Journal of Electroceramics, 2015, 34, 4-14.	2.0	10
59	EXAFS spectroscopic refinement of amorphous structures of evaporation-deposited Geâ€"Se films. Journal of Alloys and Compounds, 2015, 622, 189-193.	5.5	10
60	Effect of tin and gold on sodium ion movement in a sodium silicate glass. Journal of Electroceramics, 2015, 34, 57-62.	2.0	2
61	Photoinduced formation of Ag nanoparticles on the surface of As2S3/Ag thin bilayer. Materials Research Express, 2014, 1, 045025.	1.6	7
62	Complex structural rearrangements in As-Se glasses. Journal of Chemical Physics, 2014, 140, 054505.	3.0	19
63	Crystallization of Stoichiometric <scp>SbSI</scp> Glass. Journal of the American Ceramic Society, 2014, 97, 198-205.	3.8	16
64	Formation of Ferroelectric Phases in Sbâ€"Sâ€"I Glasses. Journal of the American Ceramic Society, 2014, 97, 3458-3462.	3.8	9
65	Inâ€Situ Raman Spectroscopy Study of Photoinduced Structural Changes in Geâ€<scp>rich</scp> Chalcogenide Films. Journal of the American Ceramic Society, 2014, 97, 1421-1424.	3.8	9
66	Chalcogenide glass resists for lithography. , 2014, , 562-596.		3
67	Influence of phase separation on the devitrification of 45S5 bioglass. Acta Biomaterialia, 2014, 10, 4878-4886.	8.3	24
68	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
69	Chemical order in GexAsySe1-x-y glasses probed by high resolution X-ray photoelectron spectroscopy. Journal of Applied Physics, 2014, 115, .	2.5	15
70	Nature of Pd and Ti Metals in the Structure of <scp>CMAS</scp> Glass and Ceramics. Journal of the American Ceramic Society, 2014, 97, 1971-1978.	3.8	3
71	Structural basis of temperature-dependent electrical resistance of evaporation-deposited amorphous GeSe film. Scripta Materialia, 2014, 86, 56-59.	5.2	6
72	Low-Energy Ion Scattering spectroscopy of silicate glass surfaces. Journal of Non-Crystalline Solids, 2014, 385, 124-128.	3.1	13

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73	Selective growth of gold nanostructures on locally amorphized silicon. Journal of the Ceramic Society of Japan, 2014, 122, 543-546.	1.1	6
74	Role of Ge:As ratio in controlling the light-induced response of a-GexAs35â^'xSe65 thin films. Scientific Reports, 2014, 4, 4029.	3.3	32
75	Structural evolution of Ga-Ge-Te glasses by combined EXAFS and XPS analysis. Journal of Chemical Physics, 2013, 139, 054508.	3.0	15
76	Nanoporosity Significantly Enhances the Biological Performance of Engineered Glass Tissue Scaffolds. Tissue Engineering - Part A, 2013, 19, 1632-1640.	3.1	35
77	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
78	Influence of Bi on topological self-organization in arsenic and germanium selenide networks. Journal of Materials Chemistry C, 2013, 1, 6677.	5.5	16
79	Formation of laser-induced SbSI single crystal architecture in Sbâ€“Sâ€“I glasses. Journal of Non-Crystalline Solids, 2013, 377, 245-249.	3.1	7
80	Incorporation of Ga into the structure of Geâ€“Se glasses. Materials Chemistry and Physics, 2013, 138, 909-916.	4.0	43
81	Direct investigation of silver photodissolution dynamics and reversibility in arsenic trisulphide thin films by atomic force microscopy. Nanotechnology, 2013, 24, 125706.	2.6	8
82	Structural organization of As-rich selenide glasses. Solid State Communications, 2013, 165, 22-26.	1.9	11
83	Wavelength Dependence of Photostructural Transformations in As2S3 Thin Films. Physics Procedia, 2013, 44, 75-81.	1.2	7
84	Role of photothermal effect in photoexpansion of chalcogenide glasses. Physica Status Solidi (B): Basic Research, 2013, 250, 983-987.	1.5	14
85	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
86	Challenges of CW laser-induced crystallization in a chalcogenide glass. Optical Materials Express, 2013, 3, 1026.	3.0	14
87	Coexistence of fast photodarkening and slow photobleaching in Ge_19As_21Se_60 thin films. Optics Express, 2012, 20, 12416.	3.4	43
88	Positron annihilation lifetime spectroscopy of nano/macroporous bioactive glasses. Journal of Materials Research, 2012, 27, 2561-2567.	2.6	9
89	Structure of SbxGe40-xSe60 glasses around 2.67 average coordination number. Journal of Non-Crystalline Solids, 2012, 358, 163-167.	3.1	22
90	Nonlinear optical studies of lead lanthanum borate glass doped with Au nanoparticles. Journal of Non-Crystalline Solids, 2012, 358, 1667-1672.	3.1	70

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91	Millisecond kinetics of photo-darkening/bleaching in xGe45Se55-(1â^'x)As45Se55 chalcogenide amorphous films. Journal of Applied Physics, 2012, 112, .	2.5	6
92	High-Resolution X-ray Photoelectron Spectroscopy Study of Photo-Oxidation of Amorphous Oxy-Chalcogenide Films. Journal of Physical Chemistry C, 2012, 116, 24590-24595.	3.1	8
93	<scp>Inâ€vitro</scp> Degradation and Bioactivity of Tailored Amorphous Multi Porous Scaffold Structure. Journal of the American Ceramic Society, 2012, 95, 2687-2694.	3.8	18
94	Role of local structure in the phase change of Geâ€"Te films. Chemical Physics Letters, 2012, 534, 58-61.	2.6	14
95	Fabrication of nano-macroporous glassâ€"ceramic bioscaffold with a water soluble pore former. Journal of Materials Science: Materials in Medicine, 2012, 23, 307-314.	3.6	6
96	In search of energy landscape for network glasses. Applied Physics Letters, 2011, 98, .	3.3	21
97	Laser fabrication of semiconducting ferroelectric single crystal SbSI features on chalcohalide glass. Optical Materials Express, 2011, 1, 652.	3.0	27
98	Laser-induced structural modification, its mechanisms, and applications in glassy optical materials. Optical Materials Express, 2011, 1, 921.	3.0	55
99	Unexpected influence of focal depth on nucleation during femtosecond laser crystallization of glass. Optical Materials Express, 2011, 1, 990.	3.0	10
100	Short-range order evolution in S-rich Geâ€"S glasses by X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 1797-1803.	3.1	18
101	Self-Reversible Photodarkening of the Mixed GeS2-SbSI Glasses. Journal of the American Ceramic Society, 2011, 94, 1657-1660.	3.8	4
102	Valence band structure of binary chalcogenide vitreous semiconductors by high-resolution XPS. Semiconductors, 2011, 45, 423-426.	0.5	7
103	Evaluation of 3D nanoâ€"macro porous bioactive glass scaffold for hard tissue engineering. Journal of Materials Science: Materials in Medicine, 2011, 22, 1195-1203.	3.6	41
104	Temperature-dependent structural relaxation in As40Se60 glass. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3032-3036.	2.1	23
105	Investigation of interdiffusion in Sb/As2S3 nano-layered structures by high-resolution X-ray photoelectron spectroscopy. Thin Solid Films, 2011, 519, 3437-3442.	1.8	9
106	Photoinduced transparency of effective three-photon absorption coefficient for femtosecond laser pulses in Ge16As29Se55 thin films. Applied Physics Letters, 2011, 98, 201111.	3.3	31
107	Effect of the interface glass on electrical performance of screen printed Ag thick-film contacts of Si solar cells. Thin Solid Films, 2010, 518, e111-e113.	1.8	17
108	Monolithic Glass Scaffolds with Dual Porosity Prepared by Polymerâ€Induced Phase Separation and Solâ€"Gel. Journal of the American Ceramic Society, 2010, 93, 1945-1949.	3.8	8

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109	Structure of GeS₂â€“SbSI Glasses by Raman Spectroscopy. Journal of the American Ceramic Society, 2010, 93, 2932-2934.	3.8	8
110	High Surface Area Nanomacroporous Bioactive Glass Scaffold for Hard Tissue Engineering. Journal of the American Ceramic Society, 2010, 93, 3002-3005.	3.8	18
111	Investigation of vibrational modes of SiO2 and LaBGeO5 using a frequency-tunable terahertz source. Journal of Non-Crystalline Solids, 2010, 356, 419-421.	3.1	0
112	Combined high-resolution XPS and EXAFS study of Ag photodissolution in a-As2S3 thin film. Journal of Non-Crystalline Solids, 2010, 356, 2332-2336.	3.1	9
113	Formation of ferroelectric single-crystal architectures in LaBGeO5 glass by femtosecond vs. continuous-wave lasers. Journal of Non-Crystalline Solids, 2010, 356, 3059-3065.	3.1	36
114	Structural model of homogeneous Asâ€“S glasses derived from Raman spectroscopy and high-resolution XPS. Philosophical Magazine, 2010, 90, 4489-4501.	1.6	52
115	Engineering of refractive index in sulfide chalcogenide glass by direct laser writing. , 2010, , .		0
116	Ionic-to-electronic conductivity transition in an oxide glass doped with gold. Applied Physics Letters, 2009, 95, 142908.	3.3	8
117	Chalcogenide glass thin film resists for grayscale lithography. Proceedings of SPIE, 2009, , .	0.8	6
118	Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. Journal of Materials Research, 2009, 24, 3495-3502.	2.6	29
119	Nano/macroporous monolithic scaffolds prepared by the solâ€“gel method. Journal of Sol-Gel Science and Technology, 2009, 51, 42-47.	2.4	17
120	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
121	Structure of Na₂Oâ€“CaOâ€“P₂O₅â€“SiO₂ Glassâ€“Ceramics with Multimodal Porosity. Journal of the American Ceramic Society, 2009, 92, 249-252.	3.8	24
122	Modelling of dissolution kinetics of thin amorphous chalcogenide films. Philosophical Magazine Letters, 2009, 89, 370-376.	1.2	4
123	Evolution of chemical structure during silver photodiffusion into chalcogenide glass thin films. Journal of Non-Crystalline Solids, 2009, 355, 1924-1929.	3.1	23
124	Chemical origin of polarization-dependent photoinduced changes in an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>As</mml:mtext></mml:mrow><mml:mrow><mml:mn>36</mml:mn></mml:m film viain situsynchrotron x-ray photoelectron spectroscopy. Physical Review B, 2009, 79, .	3.2	19
125	Directionally controlled 3D ferroelectric single crystal growth in LaBGeO_5 glass by femtosecond laser irradiation. Optics Express, 2009, 17, 23284.	3.4	72
126	Structural paradigm of Se-rich Geâ€“Se glasses by high-resolution x-ray photoelectron spectroscopy. Journal of Applied Physics, 2009, 105, 103704.	2.5	42

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127	Kinetics of photodarkening in a-As2Se3 thin films. Journal of Applied Physics, 2009, 105, 123105.	2.5	13
128	Writing of rare-earth ion doped lithium niobate line patterns in glass by laser scanning. IOP Conference Series: Materials Science and Engineering, 2009, 1, 012006.	0.6	24
129	Creation of Ferroelectric, Singleâ€Crystal Architecture in Sm_{0.5}La_{0.5}BGeO₅ Glass. Journal of the American Ceramic Society, 2008, 91, 110-114.	3.8	46
130	Comparative study of electron- and photo-induced structural transformations on the surface of As35S65 amorphous thin films. Thin Solid Films, 2008, 516, 7511-7518.	1.8	23
131	Atomistic observation of photo-expansion and photo-contraction in chalcogenide films by in situ EXAFS. Journal of Non-Crystalline Solids, 2008, 354, 2673-2678.	3.1	17
132	Kinetics and chemical analysis of photoinduced interdiffusion in nanolayered Se/As2S3 films. Journal of Applied Physics, 2008, 104, .	2.5	25
133	In Situ Measurements of X-Ray-Induced Silver Diffusion into a Ge30Se70Thin Film. Journal of the American Ceramic Society, 2008, 91, 760-765.	3.8	49
134	Glasses for lithography. Journal of Non-Crystalline Solids, 2008, 354, 1401-1406.	3.1	54
135	A photo-stable chalcogenide glass. Optics Express, 2008, 16, 10565.	3.4	64
136	Coordination defects in bismuth-modified arsenic selenide glasses: High-resolution x-ray photoelectron spectroscopy measurements. Physical Review B, 2008, 77, .	3.2	26
137	Fabrication of nano-gratings in arsenic sulphide films. Journal of Non-Crystalline Solids, 2007, 353, 1427-1430.	3.1	30
138	Effect of devitrification on ion motion in lithium-disilicate glass. Journal of Non-Crystalline Solids, 2007, 353, 3940-3946.	3.1	12
139	Influence of modifier oxides on the structural and optical properties of binary TeO2 glasses. Journal of Applied Physics, 2007, 101, 023526.	2.5	20
140	Atomistic model of physical ageing in Se-rich Asâ€“Se glasses. Philosophical Magazine, 2007, 87, 4323-4334.	1.6	60
141	Structure of Se-rich As-Se glasses by high-resolution x-ray photoelectron spectroscopy. Physical Review B, 2007, 76, .	3.2	81
142	On the mechanism of gray scale patterning of Ag-containing As2S3 thin films. Journal of Physics and Chemistry of Solids, 2007, 68, 920-925.	4.0	12
143	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
144	Photoinduced volume change in arsenic chalcogenides by band-gap light. Physical Review B, 2006, 74, .	3.2	37

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145	A Study of Reversible Î³-Induced Structural Transformations in Vitreous Ge23.5Sb11.8S64.7by High-Resolution X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 22930-22934.	2.6	24
146	An XPS study of the early stages of silver photodiffusion in Ag/a-As2S3 films. Journal of Non-Crystalline Solids, 2006, 352, 562-566.	3.1	36
147	Development of chalcogenide glass photoresists for gray scale lithography. Journal of Non-Crystalline Solids, 2006, 352, 589-594.	3.1	42
148	Optical spectroscopy of a-As2Se3 under in situ laser irradiation. Journal of Non-Crystalline Solids, 2006, 352, 595-600.	3.1	48
149	Planar chalcogenide glass waveguides for IR evanescent wave sensors. Journal of Non-Crystalline Solids, 2006, 352, 584-588.	3.1	78
150	Creation of tailored features by laser heating of Nd0.2La0.8BGeO5 glass. Optical Materials, 2006, 29, 355-359.	3.6	30
151	Millisecond kinetics of photoinduced changes in the optical parameters ofaâˆ'As2S3films. Physical Review B, 2006, 74, .	3.2	72
152	Liquid Phase Sintering of Alumina, I. Microstructure Evolution and Densification. Journal of the American Ceramic Society, 2005, 88, 1702-1707.	3.8	19
153	Liquid Phase Sintering of Alumina, II. Penetration of Liquid Phase into Model Microstructures. Journal of the American Ceramic Society, 2005, 88, 1708-1713.	3.8	13
154	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
155	Structural modification of Geâ€“Se amorphous films with the addition of Sb. Philosophical Magazine Letters, 2005, 85, 503-512.	1.2	36
156	Role of Sâˆ•Se ratio in chemical bonding of Asâ€“Sâ€“Se 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
157	Transparent Ferroelectric Glass-Ceramics. Ferroelectrics, 2004, 306, 111-127.	0.6	113
158	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
159	Structural evolution of LaBGeO5 transparent ferroelectric nano-composites. Journal of Non-Crystalline Solids, 2004, 349, 291-298.	3.1	70
160	Photoinduced changes in the electronic structure of As4Se3 glass. Journal of Non-Crystalline Solids, 2004, 349, 162-167.	3.1	24
161	Structure of alkali tungsten tellurite glasses by X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2004, 349, 60-65.	3.1	19
162	Fabrication of chalcogenide glass waveguide for IR evanescent wave sensors. , 2004, 5593, 637.		2

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163	Influence of the Manufacturing Process on Corrosion Behavior of Sodaâ€Limeâ€Silicate Glassware. Journal of the American Ceramic Society, 2003, 86, 1669-1676.	3.8	11
164	TEM and XRD study of early crystallization of lithium disilicate glasses. Journal of Non-Crystalline Solids, 2003, 331, 217-227.	3.1	140
165	Photoinduced changes in the electronic structure of As 2 Se 3 glass. Journal of Non-Crystalline Solids, 2003, 326-327, 248-256.	3.1	26
166	Study of light-induced vector changes in the local atomic structure of Asâ€“Se glasses by EXAFS. Journal of Non-Crystalline Solids, 2003, 326-327, 257-262.	3.1	15
167	Structure and photoinduced changes in bulk and films of Asâ€“Geâ€“S system. Journal of Non-Crystalline Solids, 2003, 326-327, 220-225.	3.1	26
168	Observation of light polarization-dependent structural changes in chalcogenide glasses. Applied Physics Letters, 2003, 82, 706-708.	3.3	55
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