

Efstratios I Kamitsos

List of Publications by Year in descending order

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189
papers

7,441
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53794

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195
all docs

195
docs citations

195
times ranked

4837
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared reflectance spectra of lithium borate glasses. Journal of Non-Crystalline Solids, 1990, 126, 52-67.	3.1	630
2	Vibrational spectra of magnesium-sodium-borate glasses. 2. Raman and mid-infrared investigation of the network structure. The Journal of Physical Chemistry, 1987, 91, 1073-1079.	2.9	584
3	Borate glass structure by Raman and infrared spectroscopies. Journal of Molecular Structure, 1991, 247, 1-16.	3.6	246
4	Infrared-reflectance spectra of heat-treated sol-gel-derived silica. Physical Review B, 1993, 48, 12499-12505.	3.2	190
5	Halogen Effects on Ordering and Bonding of $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($\text{X} = \text{Cl}, \text{Br}, \text{I}$) Hybrid Perovskites: A Vibrational Spectroscopic Study. Journal of Physical Chemistry C, 2016, 120, 2509-2519.	3.1	188
6	Synthesis, thermal and structural properties of pure TeO_2 glass and zinc-tellurite glasses. Journal of Non-Crystalline Solids, 2017, 457, 116-125.	3.1	171
7	Infrared reflectance investigation of alkali diborate glasses. Journal of Non-Crystalline Solids, 1993, 152, 246-257.	3.1	151
8	Raman and Infrared Structural Investigation of $\text{Rb}_2\text{O} \cdot (1-x)\text{GeO}_2$ Glasses. The Journal of Physical Chemistry, 1996, 100, 11755-11765.	2.9	136
9	Structure and mechanical properties of copper-lead and copper-zinc borate glasses. Journal of Non-Crystalline Solids, 2016, 435, 55-68.	3.1	120
10	How Does Thermal Poling Affect the Structure of Soda-Lime Glass?. Journal of Physical Chemistry C, 2010, 114, 12754-12759.	3.1	117
11	Vibrational study of the role of trivalent ions in sodium trisilicate glass. Journal of Non-Crystalline Solids, 1994, 171, 31-45.	3.1	115
12	Structural Stability, Vibrational Properties, and Photoluminescence in CsSn_3 Perovskite upon the Addition of SnF_2 . Inorganic Chemistry, 2017, 56, 84-91.	4.0	105
13	Structure and Properties of Mixed Strontium-Manganese Metaphosphate Glasses. Journal of Physical Chemistry C, 2010, 114, 9125-9138.	3.1	103
14	A Raman-spectroscopic study of indentation-induced structural changes in technical alkali-borosilicate glasses with varying silicate network connectivity. Journal of Non-Crystalline Solids, 2014, 405, 196-206.	3.1	92
15	Cation-network interactions in binary alkali metal borate glasses. A far-infrared study. The Journal of Physical Chemistry, 1987, 91, 5807-5813.	2.9	87
16	Raman study of the mechanism of electrical switching in Cu TCNQ films. Solid State Communications, 1982, 42, 561-565.	1.9	83
17	X-ray diffraction and infrared investigation of $\text{R}_2\text{Ba}_2\text{Cu}_3\text{O}_7$ and $\text{R}_{0.5}\text{Pr}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_7$ compounds ($\text{R} \rightarrow \text{Y}$ and Tl) $\text{ETQq}_{1-x}\text{O}_{1-x}$ 1.10784314 rgBT	1.2	83
18	The devitrification of lithium metaborate: polymorphism and glass formation. Journal of Non-Crystalline Solids, 1990, 126, 42-51.	3.1	82

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19	A vibrational study of lithium sulfate based fast ionic conducting borate glasses. The Journal of Physical Chemistry, 1986, 90, 4528-4533.	2.9	81
20	Transition and post-transition metal ions in borate glasses: Borate ligand speciation, cluster formation, and their effect on glass transition and mechanical properties. Journal of Chemical Physics, 2016, 145, 124501.	3.0	80
21	Alkali sites in glass. Solid State Ionics, 1998, 105, 75-85.	2.7	77
22	Optically induced transformations of metal TCNQ materials. Solid State Communications, 1983, 45, 165-169.	1.9	75
23	Vibrational spectra of magnesium-sodium-borate glasses. 1. Far-infrared investigation of the cation-site interactions. The Journal of Physical Chemistry, 1987, 91, 1067-1073.	2.9	73
24	Molecular dynamics investigation of lithium borate glasses: Local structure and ion dynamics. Physical Review B, 2002, 65, .	3.2	72
25	A multispectroscopic structural study of lead silicate glasses over an extended range of compositions. Journal of Non-Crystalline Solids, 2010, 356, 304-313.	3.1	71
26	Structural Rearrangements and Second-Order Optical Response in the Space Charge Layer of Thermally Poled Sodium-Niobium Borophosphate Glasses. Journal of Physical Chemistry C, 2007, 111, 14560-14566.	3.1	70
27	Bonding and ion-ion interactions of Mn ²⁺ ions in fluoride-phosphate and boro-silicate glasses probed by EPR and fluorescence spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 2542-2551.	3.1	70
28	Vibrational investigation of lithium metaborate-metaaluminate glasses and crystals. Journal of Non-Crystalline Solids, 1997, 217, 278-290.	3.1	69
29	Raman spectroscopic study of structural changes induced by micro-indentation in low alkali borosilicate glasses. Journal of Non-Crystalline Solids, 2014, 401, 110-114.	3.1	69
30	Raman studies in CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion radicals. Journal of Chemical Physics, 1983, 79, 5808-5819.	3.0	66
31	Structure-property correlations in highly modified Sr, Mn-borate glasses. Journal of Non-Crystalline Solids, 2013, 376, 165-174.	3.1	65
32	Influence of thermal treatment on the water release and the glassy structure of perlite. Journal of Materials Science, 2006, 41, 5870-5881.	3.7	62
33	Mixed-modifier effect in alkaline earth metaphosphate glasses. Journal of Non-Crystalline Solids, 2018, 481, 447-456.	3.1	62
34	Reply to "Comment on 'Infrared-reflectance spectra of heat-treated, sol-gel-derived silica'". Physical Review B, 1996, 53, 14659-14662.	3.2	61
35	Structure of fast-ion-conducting AgI-doped borate glasses in bulk and thin film forms. Physical Review B, 1999, 60, 3885-3898.	3.2	60
36	Lithium borate glasses: a quantitative study of strength and fragility. Journal of Non-Crystalline Solids, 1994, 172-174, 378-383.	3.1	58

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37	X-ray photoelectron spectroscopy of Al- and B-substituted sodium trisilicate glasses. Journal of Non-Crystalline Solids, 1994, 168, 247-257.	3.1	55
38	Effect of synthesis method on the structure and properties of AgPO ₃ -based glasses. Journal of Non-Crystalline Solids, 2011, 357, 2684-2689.	3.1	55
39	Formation, structure and properties of fluoro-sulfo-phosphate poly-anionic glasses. Journal of Non-Crystalline Solids, 2017, 477, 58-72.	3.1	55
40	Modifying role of alkali-metal cations in borate glass networks. The Journal of Physical Chemistry, 1989, 93, 1604-1611.	2.9	53
41	Vibrational spectroscopic and bond valence study of structure and bonding in Al ₂ O ₃ -containing AgPO ₃ glasses. RSC Advances, 2016, 6, 16697-16710.	3.6	53
42	Polarized Resonance Raman and FTIR Reflectance Spectroscopic Investigation of the Molecular Orientation in Industrial Poly(vinyl chloride) Specimens. Macromolecules, 2000, 33, 5613-5623.	4.8	49
43	Structure and properties of alkali and silver sulfophosphate glasses. Journal of Non-Crystalline Solids, 2015, 410, 142-150.	3.1	49
44	Structure and Optical Conductivity of Silver Thiogermanate Glasses. Journal of Solid State Chemistry, 1994, 112, 255-261.	2.9	48
45	Vibrational spectra of single and mixed alkali pentasilicate glasses. Journal of Non-Crystalline Solids, 1984, 65, 333-354.	3.1	47
46	A Raman investigation of cadmium borate and borogermanate glasses. Journal of Non-Crystalline Solids, 1987, 93, 155-168.	3.1	46
47	Effect of Li ₂ SO ₄ on the structure of Li ₂ O-B ₂ O ₃ glasses. Journal of Non-Crystalline Solids, 1996, 202, 222-232.	3.1	45
48	Far-infrared spectra of alkali germanate glasses and correlation with electrical conductivity. Physical Review B, 1996, 54, 9775-9783.	3.2	44
49	Structure and Properties of Orthoborate Glasses in the Eu ₂ O ₃ -B ₂ O ₃ -(Sr,Eu)O-Quaternary. Journal of Physical Chemistry B, 2015, 119, 3259-3272.	2.6	44
50	Dielectric and structural investigation of alkali triborate glasses. Journal of Non-Crystalline Solids, 1998, 235-237, 761-765.	3.1	43
51	Metal ion sites in oxide glasses Relation to glass basicity and ion transport. Journal of Non-Crystalline Solids, 1996, 196, 249-254.	3.1	42
52	Effect of Temperature on the Direct Synthesis of Gold Nanoparticles Mediated by Poly(dimethylaminoethyl methacrylate) Homopolymer. Journal of Physical Chemistry C, 2014, 118, 22754-22759.	3.1	42
53	Structure and Bonding in As [~] Sb [~] S Chalcogenide Glasses by Infrared Reflectance Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 11061-11067.	2.6	41
54	Spectroscopic study of carbonate retention in high-basicity borate glasses. Journal of Non-Crystalline Solids, 1989, 111, 252-262.	3.1	40

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55	Optical Basicity and Refractivity of Germanate Glasses. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8988-8993.	2.6	39
56	Mixed alkali/alkaline earth silicate glasses: Physical properties and structure by vibrational spectroscopy. <i>International Journal of Applied Glass Science</i> , 2019, 10, 349-362.	2.0	38
57	Molecular Orientation in Polyester Films Using Polarized Laser Raman and Fourier Transform Infrared Spectroscopies and X-Ray Diffraction. <i>Macromolecules</i> , 1996, 29, 2244-2252.	4.8	34
58	Molecular dynamics investigation of mixed-alkali borate glasses: Short-range order structure and alkali-ion environments. <i>Physical Review B</i> , 2009, 80, .	3.2	34
59	Lithium-sodium metaborate glasses: structural aspects and vitrification chemistry. <i>Journal of Non-Crystalline Solids</i> , 1994, 167, 92-105.	3.1	33
60	Correlation between dielectric constant and chemical structure of sodium silicate glasses. <i>Journal of Applied Physics</i> , 1996, 80, 1704-1712.	2.5	32
61	Structure-property correlation in glasses by infrared reflectance spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1997, 222, 59-68.	3.1	32
62	Halogen ²⁺ Interaction, Temperature-Induced Phase Transition, and Ordering in (NH ₂) ₂ CHNH ₂ PbX ₃ (X = Cl, Br, I) Hybrid Perovskites. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8479-8487.	3.1	32
63	A classification of metaborate crystals based on Raman spectroscopy. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1117-1126.	0.1	31
64	Towards a structural interpretation of fragility and decoupling trends in borate systems. <i>Journal of Non-Crystalline Solids</i> , 1996, 196, 244-248.	3.1	31
65	Density of alkali germanate glasses related to structure. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 244-249.	3.1	31
66	Vibrational study of thermally ion-exchanged sodium aluminoborosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 232-236.	3.1	31
67	Mixed cation effect in chalcogenide glasses Rb ₂ S~Ag ₂ S~GeS ₂ . <i>Physical Review B</i> , 2001, 63, .	3.2	30
68	On the structure of alkali borate glasses approaching the orthoborate composition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1990, 7, 1-4.	3.5	29
69	Evidence from vibrational spectroscopy for cluster and tissue pseudophases in glass. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1089-1091.	3.1	29
70	Structural characterizations of As~Se~Te glasses. <i>Journal of Alloys and Compounds</i> , 2011, 509, 831-836.	5.5	29
71	Partitioning and structural role of Mn and Fe ions in ionic sulfophosphate glasses. <i>Journal of Chemical Physics</i> , 2014, 141, 224509.	3.0	29
72	Refractive index distribution in the non-linear optical layer of thermally poled oxide glasses. <i>Chemical Physics Letters</i> , 2009, 470, 63-66.	2.6	28

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73	Basicity Variation in Network Oxides: Distribution of Metal Ion Sites in Borate Glass Systems. Journal of Physical Chemistry B, 1997, 101, 4188-4192.	2.6	27
74	Phosphate structure and lithium environments in lithium phosphorus oxynitride amorphous thin films. Ionics, 2016, 22, 471-481.	2.4	27
75	Spectroscopic study of the role of alkaline earth oxides in mixed borate glasses - site basicity, polarizability and glass structure. Journal of Non-Crystalline Solids, 2020, 533, 119892.	3.1	27
76	Coordination States of Molybdenum and the Nature of Copper Ion Sites in the Superionic Glasses $x\text{Cu} \cdot (1-x)\text{Cu}_2\text{MoO}_4$ ($x=0.4, 0.5$) Studied by Infrared Reflectance Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 3734-3741.	2.6	26
77	Mixed-modifier effect in (Ca,Mg) metaphosphate glasses. Journal of Non-Crystalline Solids, 2017, 468, 74-81.	3.1	26
78	Lithium conducting borate glasses: evidence for two broad distributions of cation-hosting environments. Journal of Non-Crystalline Solids, 1991, 131-133, 1092-1095.	3.1	25
79	Lithium Ion Induced Nanophase Ordering and Ion Mobility in Ionic Block Copolymers. Macromolecules, 2008, 41, 6183-6190.	4.8	25
80	Correlation between second-order optical response and structure in thermally poled sodium niobium-germanate glass. Applied Physics Letters, 2010, 97, .	3.3	25
81	Ultrashort pulse induced modifications in ULE - from nanograting formation to laser darkening. Optical Materials Express, 2015, 5, 1834.	3.0	25
82	Modification of silicophosphate glass composition, structure, and properties via crucible material and melting conditions. International Journal of Applied Glass Science, 2020, 11, 46-57.	2.0	25
83	Laser-Raman and FT-IR spectroscopic studies of peptide-analogues of silkworm chorion protein segments. International Journal of Biological Macromolecules, 1998, 23, 49-59.	7.5	24
84	Spectroscopic investigation of AgI-doped borate glasses. Solid State Ionics, 2000, 136-137, 1031-1039.	2.7	24
85	Ionic Conductivity and Self-Assembly in Poly(isoprene- <i>b</i> -ethylene oxide) Electrolytes Doped with LiTf and EMITf. Macromolecules, 2015, 48, 1473-1482.	4.8	24
86	Technology issues of Byzantine glazed pottery from Corinth, Greece. Microchemical Journal, 2016, 129, 137-150.	4.5	24
87	Transition-metal incorporation and Co-Sr/Mn-Sr mixed-modifier effect in metaphosphate glasses. Journal of Non-Crystalline Solids, 2017, 460, 136-145.	3.1	24
88	Short-range structure, the role of bismuth and property-structure correlations in bismuth borate glasses. Physical Chemistry Chemical Physics, 2021, 23, 10006-10020.	2.8	24
89	Electronic Spectra of Agtcnq and Cutcnq Charge-Transfer Compounds. Molecular Crystals and Liquid Crystals, 1986, 134, 43-51.	0.8	23
90	Spectroscopic Investigations of Transformation Phenomena Exhibited by Metal-TCNQ Materials. Molecular Crystals and Liquid Crystals, 1986, 134, 31-42.	0.8	23

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91	New insights into the structure of alkali borate glasses. <i>Journal of Non-Crystalline Solids</i> , 1990, 123, 283-285.	3.1	23
92	Dielectric Relaxation and Far-Infrared Spectroscopic Study of Cation-Site Interactions in Oxide Glasses. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5657-5662.	2.6	23
93	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
94	Development and Optical Properties of Cadmium Sulfide and Cadmium Selenide Nanoparticles in Amphiphilic Block Copolymer Micellar-like Aggregates. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15201-15209.	3.1	22
95	Polarization mechanisms and structural rearrangements in thermally poled sodium-alumino phosphate glasses. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	22
96	Short-Range Disorder in TeO ₂ Melt and Glass. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 427-431.	4.6	22
97	Far-infrared spectra of binary alkali borate glasses. <i>Solid State Ionics</i> , 1988, 28-30, 687-692.	2.7	21
98	A spectroscopic study of fluoride containing sodium borate glasses. <i>Solid State Ionics</i> , 1988, 28-30, 783-787.	2.7	21
99	Medium range order in glass and the 'germanate anomaly' effect. <i>Chemical Physics Letters</i> , 2002, 359, 246-252.	2.6	21
100	Thermal collapse of SAPO-34 molecular sieve towards a perfect glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 360, 36-40.	3.1	21
101	Femtosecond laser-induced transformations in ultra-low expansion glass: Microstructure and local density variations by vibrational spectroscopy. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	21
102	Laser-Raman spectroscopic studies of the eggshell (chorion) of <i>Bombyx mori</i> . <i>International Journal of Biological Macromolecules</i> , 1984, 6, 333-336.	7.5	20
103	Aging process of photosensitive chalcogenide films deposited by electron beam deposition. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7330-7336.	5.5	20
104	Short-Range Structure, Thermal and Elastic Properties of Binary and Ternary Tellurite Glasses. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7905-7918.	2.6	20
105	Laser-induced crystallization of glassy caesium metaborate studied by Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1990, 116, 115-122.	3.1	19
106	Dependence of sodium borate glass structure on depth from the sample surface. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 213-218.	3.1	19
107	Structure and optical properties of amorphous lead-germanate films developed by pulsed-laser deposition. <i>Journal of Chemical Physics</i> , 2007, 127, 034704.	3.0	19
108	On the connectivity of borate tetrahedra in borate and borosilicate glasses. <i>Journal of Commonwealth Law and Legal Education</i> , 2015, 56, 203-211.	0.5	19

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109	Modifying the surface wetting behavior of soda-lime silicate glass substrates through thermal polishing. <i>Journal of Non-Crystalline Solids</i> , 2017, 462, 47-50.	3.1	17
110	Influence of synthesis conditions on glass formation, structure and thermal properties in the Na ₂ O-CaO-P ₂ O ₅ system doped with Si ₃ N ₄ and Mg. <i>Journal of Non-Crystalline Solids</i> , 2018, 494, 66-77.	3.1	17
111	Structure and magnetic properties of BeO-Fe ₂ O ₃ -Al ₂ O ₃ -TeO ₂ glass-ceramic composites. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5214-5222.	5.7	17
112	Structure of lead borate glasses by Raman, ¹¹ B MAS, and ²⁰⁷ Pb NMR spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2022, 589, 121660.	3.1	17
113	Raman spectroscopic study of molecular orientation in AgTCNQ thin films. <i>Journal of Chemical Physics</i> , 1983, 79, 477-482.	3.0	16
114	The glass transition temperature of lithium-alkali borates. <i>Journal of Non-Crystalline Solids</i> , 1991, 134, 277-286.	3.1	16
115	Molecular Orientation of Hairy-Rod Polyesters: Effects of Side Chain Length. <i>Macromolecules</i> , 1998, 31, 5465-5473.	4.8	16
116	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3076-3087.	3.1	16
117	Chemical relaxations at the glass transition of a lithium conducting glass. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1068-1071.	3.1	15
118	Spectroscopic studies of Manduca sexta and Sesamia nonagrioides chorion protein structure. <i>International Journal of Biological Macromolecules</i> , 1995, 17, 93-98.	7.5	15
119	Investigation of CuI-Containing Molybdophosphate Glasses by Infrared Reflectance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11671-11681.	3.1	15
120	Vibrational study of lithium borotellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 540, 120011.	3.1	15
121	A Raman study of lithium fluoride containing fast ionic conducting glasses. <i>Solid State Communications</i> , 1984, 51, 313-316.	1.9	14
122	Secondary structure of synthetic peptides derived from the repeating unit of a giant secretory protein from Chironomus tentans. <i>BBA - Proteins and Proteomics</i> , 1992, 1121, 279-285.	2.1	14
123	Resonance Raman and far-infrared studies of n-Bu ₄ N ⁺ I ⁻ and n-Bu ₄ N ⁺ Br ⁻ . <i>Journal of Raman Spectroscopy</i> , 1992, 23, 81-85.	2.5	14
124	Brillouin spectra of mixed alkali glasses: xCs ₂ O(1-x)Na ₂ O ₅ SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1981, 45, 257-269.	3.1	13
125	Spectroscopic study of As ₂ S ₃ glasses doped with Dy, Sm and Mn. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 306-310.	3.1	13
126	Thin Film Amorphous Electrolytes: Structure and Composition by Experimental and Simulated Infrared Spectra. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8111-8119.	3.1	13

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127	Lithium Ion Conducting Boron-Oxynitride Amorphous Thin Films: Synthesis and Molecular Structure by Infrared Spectroscopy and Density Functional Theory Modeling. Journal of Physical Chemistry C, 2013, 117, 7202-7213.	3.1	13
128	A multi technique study of a new lithium disilicate glass-ceramic spray-coated on ZrO ₂ substrate for dental restoration. Biomedical Glasses, 2017, 3, .	2.4	13
129	The influence of Be addition on the structure and thermal properties of alkali-silicate glasses. Journal of Non-Crystalline Solids, 2019, 521, 119532.	3.1	13
130	Yttrium and rare-earth modified lithium orthoborates: Glass formation and vibrational activity. Journal of Non-Crystalline Solids, 2022, 575, 121152.	3.1	13
131	Anomalous expansion of sodium triborate melt and its effect on glass properties. Journal of Non-Crystalline Solids, 1993, 162, 107-117.	3.1	12
132	Connection between the microwave and far infrared conductivity of oxide glasses. Journal of Non-Crystalline Solids, 2000, 274, 307-312.	3.1	12
133	Cation dynamics in lithium borate glasses. Journal of Non-Crystalline Solids, 2002, 307-310, 956-962.	3.1	12
134	Composition and temperature dependence of cesium-borate glasses by molecular dynamics. Journal of Chemical Physics, 2005, 123, 014508.	3.0	12
135	On the Absence of Doubly Bonded Te ²⁺ •O Groups in TeO ₂ Glass. Journal of Physical Chemistry B, 2020, 124, 5746-5753.	2.6	12
136	Raman and far-infrared reflectance investigation of microcrystal orientation in YBa ₂ Cu ₃ O _{7-δ} superconductors. Physica C: Superconductivity and Its Applications, 1989, 157, 551-554.	1.2	11
137	Pressure-induced structural transformations in glass $\langle \text{Li} \rangle_{0.3}$. A molecular dynamics study. Physical Review B, 2010, 82, .	3.2	11
138	Tailoring the Mechanical Properties of Metaluminous Aluminosilicate Glasses by Phosphate Incorporation. Frontiers in Materials, 2020, 7, .	2.4	11
139	Anion polarizabilities in oxynitride glasses. Establishing a common optical basicity scale. Physical Chemistry Chemical Physics, 2020, 22, 9543-9560.	2.8	11
140	Niobate in silicate and phosphate glasses: Effect of glass basicity on crucible dissolution. International Journal of Applied Glass Science, 2022, 13, 121-134.	2.0	11
141	Laser-Raman and infrared spectroscopic studies of protein conformation in the eggshell of the fish <i>Salmo gairdneri</i> . BBA - Proteins and Proteomics, 1987, 913, 163-169.	2.1	10
142	Structural investigation of superionic AgI-containing orthoborate glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 93-98.	3.1	10
143	Crystal structures and spectroscopic and electrical properties of alkylthio-1,2-dithiolium-TCNQ charge transfer complexes. Synthetic Metals, 1987, 19, 481-486.	3.9	9
144	Pulsed laser deposited lead-germanate glass systems. Applied Physics A: Materials Science and Processing, 2004, 79, 1319-1321.	2.3	9

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145	Processing and characterization of new oxysulfide glasses in the Ge-Ga-As-S-O system. Journal of Solid State Chemistry, 2008, 181, 2869-2876.	2.9	9
146	Nitrogen flow rate as a new key parameter for the nitridation of electrolyte thin films. Solid State Ionics, 2008, 179, 1223-1226.	2.7	9
147	Orientation phenomena in chromophore DR1-containing polymer films and their non-linear optical response. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 515-520.	3.5	9
148	Lithium ion sites and their contribution to the ionic conductivity of RLi ₂ O-B ₂ O ₃ glasses with R ⁺ 1.85. Solid State Ionics, 2021, 359, 115530.	2.7	9
149	Some New Conducting Solids. Molecular Crystals and Liquid Crystals, 1985, 120, 315-318.	0.8	8
150	Anomalous Deformation Behavior in ULE Glass upon Microindentation: A Vibrational Spectroscopic Investigation in the Induced Structural Changes of a Ti-Silicate Glass. Journal of Physical Chemistry C, 2021, 125, 4183-4195.	3.1	8
151	Network former mixing effects in alkali germanotellurite glasses: A vibrational spectroscopic study. Journal of Alloys and Compounds, 2021, 882, 160782.	5.5	8
152	A structural assessment of glass formation in alkali borates: Melt quenching versus gel drying. Journal of Materials Science Letters, 1995, 14, 268-270.	0.5	7
153	Infrared spectroscopy of Li-diborate glassy thin films. Journal of Non-Crystalline Solids, 2007, 353, 1818-1823.	3.1	7
154	The effect of nitrogen on the structure and thermal properties of beryllium-containing Na-(Li)-Si-O-N glasses. Journal of Non-Crystalline Solids, 2019, 522, 119585.	3.1	7
155	Synthesis, structural characterization, and thermal properties of Ca- and La-doped soda-lime glasses by laser melting. International Journal of Applied Glass Science, 2020, 11, 699-706.	2.0	7
156	Preferential bonding in low alkali borosilicate glasses. Journal of Commonwealth Law and Legal Education, 2017, 58, 171-179.	0.5	7
157	Significance of intermediate range structure for electrical conduction in alkali germanate glasses. Journal of Non-Crystalline Solids, 1997, 222, 361-368.	3.1	6
158	Spectroscopic studies of bulk AS ₂ S ₃ glasses and amorphous films doped with Dy, Sm and Mn. , 2002, , .		6
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