Yuanzheng Yue

List of Publications by Year
in descending order

298 papers	11,869 citations	31902 53 h-index	43802 91 g-index
310 all docs	310 docs citations	310 times ranked	8090 citing authors

#	Article	IF	Citations
1	Viscosity of glass-forming liquids. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19780-19784.	3.3	757
2	Topological Principles of Borosilicate Glass Chemistry. Journal of Physical Chemistry B, 2011, 115, 12930-12946.	1.2	289
3	Understanding Glass through Differential Scanning Calorimetry. Chemical Reviews, 2019, 119, 7848-7939.	23.0	258
4	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	6.6	252
5	Hybrid glasses from strong and fragile metal-organic framework liquids. Nature Communications, 2015, 6, 8079.	5.8	242
6	Transparent glass-ceramics functionalized by dispersed crystals. Progress in Materials Science, 2018, 97, 38-96.	16.0	236
7	Femtosecond laser induced phenomena in transparent solid materials: Fundamentals and applications. Progress in Materials Science, 2016, 76, 154-228.	16.0	232
8	Clarifying the glass-transition behaviour of water by comparison with hyperquenched inorganic glasses. Nature, 2004, 427, 717-720.	13.7	226
9	Prediction of Glass Hardness Using Temperature-Dependent Constraint Theory. Physical Review Letters, 2010, 105, 115503.	2.9	225
10	A metal-organic framework with ultrahigh glass-forming ability. Science Advances, 2018, 4, eaao6827.	4.7	196
11	Three-dimensional direct lithography of stable perovskite nanocrystals in glass. Science, 2022, 375, 307-310.	6.0	190
12	Enhancing the electrochemical performance of lithium ion batteries using mesoporous Li3V2(PO4)3/C microspheres. Journal of Materials Chemistry, 2012, 22, 5960.	6.7	176
13	Quantitative Design of Glassy Materials Using Temperature-Dependent Constraint Theory. Chemistry of Materials, 2010, 22, 5358-5365.	3.2	156
14	Metal-organic framework glasses with permanent accessible porosity. Nature Communications, 2018, 9, 5042.	5.8	147
15	Fictive temperature, cooling rate, and viscosity of glasses. Journal of Chemical Physics, 2004, 120, 8053-8059.	1.2	138
16	Fragile-to-strong transition in metallic glass-forming liquids. Journal of Chemical Physics, 2010, 133, 014508.	1.2	136
17	Secondary Relaxation in Metallic Glass Formers: Its Correlation with the Genuine Johariâ˜Goldstein Relaxation. Journal of Physical Chemistry C, 2009, 113, 15001-15006.	1.5	133
18	Ultrahigh-field ⁶⁷ Zn NMR reveals short-range disorder in zeolitic imidazolate framework glasses. Science, 2020, 367, 1473-1476.	6.0	132

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19	Fabrication of highly insulating foam glass made from CRT panel glass. Ceramics International, 2015, 41, 9793-9800.	2.3	125
20	Potential energy, relaxation, vibrational dynamics and the boson peak, of hyperquenched glasses. Journal of Physics Condensed Matter, 2003, 15, S1051-S1068.	0.7	123
21	Optimized assembling of MOF/SnO2/Graphene leads to superior anode for lithium ion batteries. Nano Energy, 2020, 74, 104868.	8.2	116
22	Nano-pâ€“n junctions on surface-coarsened TiO2 nanobelts with enhanced photocatalytic activity. Journal of Materials Chemistry, 2011, 21, 5106.	6.7	114
23	Compositionâ€“structureâ€“property relationships in boroaluminosilicate glasses. Journal of Non-Crystalline Solids, 2012, 358, 993-1002.	1.5	98
24	The disordering-enhanced performances of the Al-MOF/graphene composite anodes for lithium ion batteries. Nano Energy, 2019, 65, 104032.	8.2	90
25	Mesoporous zirconium phosphate from yeast biotemplate. Journal of Colloid and Interface Science, 2010, 343, 344-349.	5.0	88
26	Influence of the glassâ€“calcium carbonate mixture's characteristics on the foaming process and the properties of the foam glass. Journal of the European Ceramic Society, 2014, 34, 1591-1598.	2.8	87
27	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIFâ€4. Angewandte Chemie - International Edition, 2015, 54, 6447-6451.	7.2	87
28	Universality of the high-temperature viscosity limit of silicate liquids. Physical Review B, 2011, 83, .	1.1	86
29	Mixed alkaline earth effect in sodium aluminosilicate glasses. Journal of Non-Crystalline Solids, 2013, 369, 61-68.	1.5	85
30	Full solar spectrum light driven thermocatalysis with extremely high efficiency on nanostructured Ce ion substituted OMS-2 catalyst for VOCs purification. Nanoscale, 2015, 7, 2633-2640.	2.8	85
31	Metalâ€Organic Framework Glass Anode with an Exceptional Cyclingâ€Induced Capacity Enhancement for Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2110048.	11.1	83
32	Enhancing Li-ion battery anode performances via disorder/order engineering. Nano Energy, 2018, 49, 596-602.	8.2	79
33	<scp><scp>Euâ€</scp></scp>,<scp><scp>Tbâ€</scp></scp>, and <scp><scp>Dy</scp></scp>â€Doped Oxyfluoride Silicate Glasses for <scp>LED</scp> Applications. Journal of the American Ceramic Society, 2014, 97, 854-861.	1.9	78
34	The chromosome-level quality genome provides insights into the evolution of the biosynthesis genes for aroma compounds of Osmanthus fragrans. Horticulture Research, 2018, 5, 72.	2.9	77
35	The mechanism of foaming and thermal conductivity of glasses foamed with MnO 2. Journal of Non-Crystalline Solids, 2015, 425, 74-82.	1.5	76
36	Fracture toughness of a metalâ€“organic framework glass. Nature Communications, 2020, 11, 2593.	5.8	76

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37	Structural response of a highly viscous aluminoborosilicate melt to isotropic and anisotropic compressions. Journal of Chemical Physics, 2009, 131, .	1.2	74
38	The iso-structural viscosity, configurational entropy and fragility of oxide liquids. Journal of Non-Crystalline Solids, 2009, 355, 737-744.	1.5	74
39	The viscosity window of the silicate glass foam production. Journal of Non-Crystalline Solids, 2017, 456, 49-54.	1.5	73
40	Evidence of Intermediate-Range Order Heterogeneity in Calcium Aluminosilicate Glasses. Chemistry of Materials, 2010, 22, 4471-4483.	3.2	69
41	Liquid phase blending of metal-organic frameworks. Nature Communications, 2018, 9, 2135.	5.8	69
42	Fabricating high-energy quantum dots in ultra-thin LiFePO₄nanosheets using a multifunctional high-energy biomoleculeâ€"ATP. Energy and Environmental Science, 2014, 7, 2285-2294.	15.6	68
43	Revealing the atomistic origin of the disorder-enhanced Na-storage performance in NaFePO4 battery cathode. Nano Energy, 2019, 57, 608-615.	8.2	67
44	Irreversibility of Pressure Induced Boron Speciation Change in Glass. Scientific Reports, 2014, 4, 3770.	1.6	65
45	Secondary Relaxation Behavior in a Strong Glass. Journal of Physical Chemistry B, 2008, 112, 9053-9057.	1.2	64
46	The effect of Ce ion substituted OMS-2 nanostructure in catalytic activity for benzene oxidation. Nanoscale, 2014, 6, 15048-15058.	2.8	62
47	Meltâ€Quenched Hybrid Glasses from Metalâ€"Organic Frameworks. Advanced Materials, 2017, 29, 1601705.	11.1	62
48	Optical properties of a melt-quenched metalâ€"organic framework glass. Optics Letters, 2019, 44, 1623.	1.7	58
49	Composition dependence of luminescence of Eu and Eu/Tb doped silicate glasses for LED applications. Journal of Alloys and Compounds, 2013, 555, 232-236.	2.8	57
50	Physical performances of blended cements containing calcium aluminosilicate glass powder and limestone. Cement and Concrete Research, 2011, 41, 359-364.	4.6	55
51	One-step deposition of ultrafiltration SiC membranes on macroporous SiC supports. Journal of Membrane Science, 2014, 472, 232-240.	4.1	55
52	Atomic and vibrational origins of mechanical toughness in bioactive cement during setting. Nature Communications, 2015, 6, 8631.	5.8	55
53	Elastic and micromechanical properties of isostatically compressed sodaâ€"limeâ€"borate glasses. Journal of Non-Crystalline Solids, 2013, 364, 44-52.	1.5	54
54	A model for phosphate glass topology considering the modifying ion sub-network. Journal of Chemical Physics, 2014, 140, .	1.2	54

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55	Impact of Drawing Stress on the Tensile Strength of Oxide Glass Fibers. Journal of the American Ceramic Society, 2010, 93, 3236-3243.	1.9	53
56	High-performance TiO2 from Bakerâ€™s yeast. Journal of Colloid and Interface Science, 2011, 354, 109-115.	5.0	53
57	Enthalpy and Anisotropy Relaxation of Glass Fibers. Journal of the American Ceramic Society, 2008, 91, 745-752.	1.9	51
58	Effect of thermal history and chemical composition on hardness of silicate glasses. Journal of Non-Crystalline Solids, 2010, 356, 893-897.	1.5	51
59	Thermodynamic anomaly of the sub-Tg relaxation in hyperquenched metallic glasses. Journal of Chemical Physics, 2013, 138, 174508.	1.2	51
60	Structural evolution during fragile-to-strong transition in CuZr(Al) glass-forming liquids. Journal of Chemical Physics, 2015, 142, 064508.	1.2	51
61	Influence of the glass particle size on the foaming process and physical characteristics of foam glasses. Journal of Non-Crystalline Solids, 2016, 447, 190-197.	1.5	51
62	Ordered hierarchical mesoporous anatase TiO2 from yeast biotemplates. Colloids and Surfaces B: Biointerfaces, 2009, 74, 274-278.	2.5	49
63	Unified approach for determining the enthalpic fictive temperature of glasses with arbitrary thermal history. Journal of Non-Crystalline Solids, 2011, 357, 3230-3236.	1.5	49
64	Sodium diffusion in boroaluminosilicate glasses. Journal of Non-Crystalline Solids, 2011, 357, 3744-3750.	1.5	49
65	A Direct Link between the Fragile-to-Strong Transition and Relaxation in Supercooled Liquids. Journal of Physical Chemistry Letters, 2014, 5, 1170-1174.	2.1	49
66	Efficient Enhancement of Bismuth <scp>NIR</scp> Luminescence by Aluminum and Its Mechanism in Bismuthâ€Doped Germanate Laser Glass. Journal of the American Ceramic Society, 2016, 99, 2071-2076.	1.9	48
67	Clarifying the charging induced nucleation in glass anode of Li-ion batteries and its enhanced performances. Nano Energy, 2019, 57, 592-599.	8.2	48
68	Synthesis and properties of open- and closed-porous foamed glass with a low density. Construction and Building Materials, 2020, 247, 118574.	3.2	48
69	Structure-topology-property correlations of sodium phosphosilicate glasses. Journal of Chemical Physics, 2015, 143, 064510.	1.2	47
70	Suppressing the effect of cullet composition on the formation and properties of foamed glass. Ceramics International, 2018, 44, 11143-11150.	2.3	47
71	Observation of indentation-induced shear bands in a metalâ^'organic framework glass. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10149-10154.	3.3	47
72	Hardness and incipient plasticity in silicate glasses: Origin of the mixed modifier effect. Applied Physics Letters, 2014, 104, .	1.5	46

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73	Relaxation and Glass Transition in an Isostatically Compressed Diopside Glass. Journal of the American Ceramic Society, 2007, 90, 1556-1561.	1.9	45
74	Deposition of thin ultrafiltration membranes on commercial SiC microfiltration tubes. Ceramics International, 2014, 40, 3277-3285.	2.3	45
75	Reconciling calorimetric and kinetic fragilities of glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 456, 95-100.	1.5	45
76	Genome-wide investigation of WRKY transcription factors in sweet osmanthus and their potential regulation of aroma synthesis. Tree Physiology, 2020, 40, 557-572.	1.4	45
77	Density of topological constraints as a metric for predicting glass hardness. Applied Physics Letters, 2017, 111, .	1.5	43
78	Biologically Formed Mesoporous Amorphous Silica. Journal of the American Chemical Society, 2009, 131, 2717-2721.	6.6	42
79	Integrating Transcriptomic and GC-MS Metabolomic Analysis to Characterize Color and Aroma Formation during Tepal Development in Lycoris longituba. Plants, 2019, 8, 53.	1.6	42
80	Nanoindentation of glass wool fibers. Journal of Non-Crystalline Solids, 2008, 354, 3887-3895.	1.5	41
81	Ionic diffusion and the topological origin of fragility in silicate glasses. Journal of Chemical Physics, 2009, 131, 244514.	1.2	41
82	Near-infrared emission from Euâ€“Yb doped silicate glasses subjected to thermal reduction. Applied Physics Letters, 2011, 98, .	1.5	41
83	Indication of liquid-liquid phase transition in CuZr-based melts. Applied Physics Letters, 2013, 103, .	1.5	41
84	Structural and topological aspects of borophosphate glasses and their relation to physical properties. Journal of Chemical Physics, 2015, 142, 184503.	1.2	41
85	Gas-releasing reactions in foam-glass formation using carbon and MnxOy as the foaming agents. Ceramics International, 2017, 43, 4638-4646.	2.3	41
86	Broad Mid-Infrared Luminescence in a Metalâ€“Organic Framework Glass. ACS Omega, 2019, 4, 12081-12087.	1.6	41
87	Metalâ€“Organic Framework Glasses Possess Higher Thermal Conductivity than Their Crystalline Counterparts. ACS Applied Materials & Interfaces, 2020, 12, 18893-18903.	4.0	41
88	Formation of a Nanocrystalline Layer on the Surface of Stone Wool Fibers. Journal of the American Ceramic Society, 2009, 92, 62-67.	1.9	40
89	Impact of network topology on cationic diffusion and hardness of borate glass surfaces. Journal of Chemical Physics, 2010, 133, 154509.	1.2	40
90	Bio-synthesis participated mechanism of mesoporous LiFePO4/C nanocomposite microspheres for lithium ion battery. Journal of Materials Chemistry, 2012, 22, 19948.	6.7	40

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91	Graphene-like carbon sheet/Fe3O4 nanocomposites derived from soda papermaking black liquor for high performance lithium ion batteries. Electrochimica Acta, 2017, 232, 550-560.	2.6	40
92	Multilevel structures of Li3V2(PO4)3/phosphorus-doped carbon nanocomposites derived from hybrid V-MOFs for long-life and cheap lithium ion battery cathodes. Journal of Power Sources, 2017, 366, 9-17.	4.0	40
93	Effect of Na2CO3 as foaming agent on dynamics and structure of foam glass melts. Journal of Non-Crystalline Solids, 2014, 400, 1-5.	1.5	39
94	On the origin of the mixed alkali effect on indentation in silicate glasses. Journal of Non-Crystalline Solids, 2014, 406, 22-26.	1.5	39
95	Breaking the Limit of Microâ€Ductility in Oxide Glasses. Advanced Science, 2019, 6, 1901281.	5.6	38
96	Enthalpy relaxation of hyperquenched glasses and its possible link to Î±- and Î²-relaxations. Journal of Non-Crystalline Solids, 2008, 354, 350-354.	1.5	37
97	Microscopic Origins of Compositional Trends in Aluminosilicate Glass Properties. Journal of the American Ceramic Society, 2013, 96, 1436-1443.	1.9	37
98	Non-Newtonian flow behaviour of glass melts as a consequence of viscoelasticity and anisotropic flow. Journal of Non-Crystalline Solids, 1994, 175, 118-128.	1.5	36
99	Metalâ€Organicâ€Frameworkâ€Based Cathodes for Enhancing the Electrochemical Performances of Batteries: A Review. ChemElectroChem, 2019, 6, 5358-5374.	1.7	36
100	Fragility and configurational heat capacity of calcium aluminosilicate glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 461, 24-34.	1.5	35
101	Biocarbon-coated LiFePO4 nucleus nanoparticles enhancing electrochemical performances. Chemical Communications, 2012, 48, 10093.	2.2	34
102	Electronic conductivity of vanadium-tellurite glass-ceramics. Journal of Non-Crystalline Solids, 2013, 378, 196-200.	1.5	34
103	Influence of foaming agents on solid thermal conductivity of foam glasses prepared from CRT panel glass. Journal of Non-Crystalline Solids, 2017, 465, 59-64.	1.5	34
104	Evaluation of the contributions to the effective thermal conductivity of an open-porous-type foamed glass. Construction and Building Materials, 2019, 214, 337-343.	3.2	34
105	Compositional dependence of fragility and glass forming ability of calcium aluminosilicate melts. Journal of Non-Crystalline Solids, 2009, 355, 867-873.	1.5	33
106	Topoâ€Chemical Tailoring of Tellurium Quantum Dot Precipitation from Supercooled Polyphosphates for Broadband Optical Amplification. Advanced Optical Materials, 2016, 4, 1624-1634.	3.6	33
107	Revealing hidden endotherm of Hummers' graphene oxide during low-temperature thermal reduction. Carbon, 2018, 138, 337-347.	5.4	33
108	Hierarchically Nanoporous Bioactive Glasses for High Efficiency Immobilization of Enzymes. Advanced Functional Materials, 2014, 24, 2206-2215.	7.8	32

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109	Tellurium nanoparticles enhanced electrochemical performances of TeO2-V2O5-Al2O3 glass anode for Lithium-ion batteries. Journal of Non-Crystalline Solids, 2019, 521, 119491.	1.5	32
110	Enhancing Na-ion storage in Na₃V₂(PO₄)₃/C cathodes for sodium ion batteries through Br and N co-doping. Inorganic Chemistry Frontiers, 2020, 7, 1289-1297.	3.0	32
111	A new description and interpretation of the flow behaviour of glass forming melts. Journal of Non-Crystalline Solids, 1994, 180, 66-79.	1.5	31
112	Experimental evidence for the existence of an ordered structure in a silicate liquid above its liquidus temperature. Journal of Non-Crystalline Solids, 2004, 345-346, 523-527.	1.5	31
113	Bio-assisted synthesis of mesoporous Li3V2(PO4)3 for high performance lithium-ion batteries. Electrochimica Acta, 2013, 112, 295-303.	2.6	31
114	Mechanically induced excess enthalpy in inorganic glasses. Applied Physics Letters, 2005, 86, 121917.	1.5	30
115	Crystallisation behaviour and high-temperature stability of stone wool fibres. Journal of the European Ceramic Society, 2010, 30, 1287-1295.	2.8	30
116	Influence of aluminum speciation on the stability of aluminosilicate glasses against crystallization. Applied Physics Letters, 2012, 101, 041906.	1.5	30
117	Impact of pore structure on the thermal conductivity of glass foams. Materials Letters, 2019, 250, 72-74.	1.3	30
118	Abnormal sub-Tg enthalpy relaxation in the CuZrAl metallic glasses far from equilibrium. Applied Physics Letters, 2011, 98, .	1.5	29
119	An extended topological model for binary phosphate glasses. Journal of Chemical Physics, 2014, 141, 244502.	1.2	29
120	Cloning and Expression Analysis of MEP Pathway Enzyme-encoding Genes in Osmanthus fragrans. Genes, 2016, 7, 78.	1.0	29
121	Decoupling between birefringence decay, enthalpy relaxation and viscous flow in calcium boroalumosilicate glasses. Chemical Geology, 2008, 256, 299-305.	1.4	28
122	Inward Cationic Diffusion and Formation of Silica-Rich Surface Nanolayer of Glass. Chemistry of Materials, 2009, 21, 1242-1247.	3.2	28
123	Material functionalities from molecular rigidity: Maxwellâ€™s modern legacy. MRS Bulletin, 2017, 42, 18-22.	1.7	28
124	Nano-glass ceramic cathodes for Li+/Na+ mixed-ion batteries. Journal of Power Sources, 2017, 342, 717-725.	4.0	28
125	Toward hard and highly crack resistantÂmagnesium aluminosilicate glasses and transparent glassâ€ceramics. Journal of the American Ceramic Society, 2020, 103, 3600-3609.	1.9	28
126	Glass transition in an isostatically compressed calcium metaphosphate glass. Journal of Chemical Physics, 2007, 126, 144902.	1.2	27

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127	Effect of alkali phosphate content on foaming of CRT panel glass using Mn3O4 and carbon as foaming agents. Journal of Non-Crystalline Solids, 2018, 482, 217-222.	1.5	27
128	Structural evolution during the sub-Tg relaxation of hyperquenched metallic glasses. Applied Physics Letters, 2010, 96, .	1.5	26
129	Hardness of Oxynitride Glasses: Topological Origin. Journal of Physical Chemistry B, 2015, 119, 4109-4115.	1.2	26
130	Impact of nitridation of metaphosphate glasses on liquid fragility. Journal of Non-Crystalline Solids, 2016, 441, 22-28.	1.5	26
131	Mutual-stabilization in chemically bonded graphene oxideâ€“TiO₂ heterostructures synthesized by a solâ€“gel approach. RSC Advances, 2017, 7, 41217-41227.	1.7	26
132	Synthesis of NaCl single crystals with defined morphologies as templates for fabricating hollow nano/micro-structures. RSC Advances, 2015, 5, 5072-5076.	1.7	25
133	Role of Amorphous Phases in Enhancing Performances of Electrode Materials for Alkali Ion Batteries. Frontiers in Materials, 2020, 6, .	1.2	25
134	NMR evidence for the charge-discharge induced structural evolution in a Li-ion battery glass anode and its impact on the electrochemical performances. Nano Energy, 2021, 80, 105589.	8.2	25
135	The effects of Mgâ€“Ca and Feâ€“Mg substitution on rheological and thermodynamic properties of aluminosilicate melts. Journal of Non-Crystalline Solids, 2004, 345-346, 782-786.	1.5	24
136	Li 3 V 2 (PO 4) 3 /LiFePO 4 composite hollow microspheres for wide voltage lithium ion batteries. Electrochimica Acta, 2016, 219, 682-692.	2.6	24
137	Thermodynamic features and enthalpy relaxation in a metalâ€“organic framework glass. Physical Chemistry Chemical Physics, 2018, 20, 18291-18296.	1.3	24
138	Towards large-size bulk ZIF-62 glasses via optimizing the melting conditions. Journal of Non-Crystalline Solids, 2020, 530, 119806.	1.5	24
139	Glass transition in hyperquenched water? (reply). Nature, 2005, 435, E1-E2.	13.7	23
140	Glass-forming ability of soda lime borate liquids. Journal of Non-Crystalline Solids, 2012, 358, 658-665.	1.5	23
141	Hydration of Blended <scp>P</scp>ortland Cements Containing Calciumâ€Aluminosilicate Glass Powder and Limestone. Journal of the American Ceramic Society, 2012, 95, 403-409.	1.9	23
142	Calorimetric Signature of Structural Heterogeneity in a Ternary Silicate Glass. Journal of the American Ceramic Society, 2013, 96, 3035-3037.	1.9	23
143	Origin of the frequency shift of Raman scattering in chalcogenide glasses. Journal of Non-Crystalline Solids, 2014, 391, 117-119.	1.5	23
144	Dissolution of Stone Wool Fibers with Phenol-urea-formaldehyde Binder in a Synthetic Lung Fluid. Chemical Research in Toxicology, 2019, 32, 2398-2410.	1.7	23

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145	Biologically formed hollow cuprous oxide microspheres. Materials Science and Engineering C, 2010, 30, 758-762.	3.8	22
146	Tunable photoluminescence induced by thermal reduction in rare earth doped glasses. Journal of Materials Chemistry, 2011, 21, 6614.	6.7	22
147	Correlation between supercooled liquid relaxation and glass Poissonâ€™s ratio. Journal of Chemical Physics, 2015, 143, 164504.	1.2	22
148	Influence of physical ageing on the excessive heat capacity of hyperquenched silicate glass fibers. Journal of Non-Crystalline Solids, 2004, 348, 72-77.	1.5	21
149	Modifying glass surfaces via internal diffusion. Journal of Non-Crystalline Solids, 2010, 356, 290-298.	1.5	21
150	Toward the effective design of steam-stable silica-based membranes. Microporous and Mesoporous Materials, 2013, 179, 242-249.	2.2	21
151	Volume and structural relaxation in compressed sodium borate glass. Physical Chemistry Chemical Physics, 2016, 18, 29879-29891.	1.3	21
152	Evaluation of Foaming Behavior of Glass Melts by Highâ€Temperature Microscopy. International Journal of Applied Glass Science, 2016, 7, 524-531.	1.0	21
153	Mixed alkalineâ€earth effects on several mechanical and thermophysical properties of aluminate glasses and melts. Journal of the American Ceramic Society, 2019, 102, 1128-1136.	1.9	21
154	Structural evolution in a melt-quenched zeolitic imidazolate framework glass during heat-treatment. Chemical Communications, 2019, 55, 2521-2524.	2.2	21
155	Topological understanding of the mixed alkaline earth effect in glass. Journal of Non-Crystalline Solids, 2020, 527, 119696.	1.5	21
156	Sub-Tg enthalpy relaxation in an extremely unstable oxide glass and its implication for structural heterogeneity. Journal of Non-Crystalline Solids, 2013, 381, 23-28.	1.5	20
157	Critical V₂O₅/TeO₂Ratio Inducing Abrupt Property Changes in Vanadium Tellurite Glasses. Journal of Physical Chemistry B, 2014, 118, 141212105104005.	1.2	20
158	Sub-Tg relaxation patterns in Cu-based metallic glasses far from equilibrium. Journal of Chemical Physics, 2014, 141, 164507.	1.2	20
159	Anomalous Enthalpy Relaxation in Vitreous Silica. Frontiers in Materials, 2015, 2, .	1.2	20
160	Composition dependence of the optical and structural properties of Eu-doped oxyfluoride glasses. Journal of Alloys and Compounds, 2015, 632, 291-295.	2.8	20
161	Foam glass obtained through highâ€pressure sintering. Journal of the American Ceramic Society, 2018, 101, 3917-3923.	1.9	20
162	High-speed synchrotron X-ray imaging of glass foaming and thermal conductivity simulation. Acta Materialia, 2020, 189, 85-92.	3.8	20

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163	A new threshold of uncovering the nature of glass transition: The slow ÃŸ relaxation in glassy states. Science Bulletin, 2010, 55, 457-472.	1.7	19
164	Phase separation in an ionomer glass: Insight from calorimetry and phase transitions. Journal of Non-Crystalline Solids, 2015, 415, 24-29.	1.5	19
165	A medium range order structural connection to the configurational heat capacity of borateâ€“silicate mixed glasses. Physical Chemistry Chemical Physics, 2016, 18, 10887-10895.	1.3	19
166	Biomineralizing synthesis of mesoporous hydroxyapatiteâ€“calcium pyrophosphate polycrystal using ovalbumin as biosurfactant. Materials Chemistry and Physics, 2008, 111, 265-270.	2.0	18
167	Enthalpy relaxation in hyperquenched glasses of different fragility. Journal of Non-Crystalline Solids, 2008, 354, 1862-1870.	1.5	18
168	Heterogeneous enthalpy relaxation in glasses far from equilibrium. Chemical Physics Letters, 2010, 494, 37-40.	1.2	18
169	Cation Diffusivity and the Mixed Network Former Effect in Borosilicate Glasses. Journal of Physical Chemistry B, 2015, 119, 7106-7115.	1.2	18
170	Multi-nanolayered VO2/Sapphire Thin Film via Spinodal Decomposition. Scientific Reports, 2018, 8, 5342.	1.6	18
171	On the frequency correction in temperature-modulated differential scanning calorimetry of the glass transition. Journal of Non-Crystalline Solids, 2012, 358, 1710-1715.	1.5	17
172	Surface-luminescence from thermally reduced bismuth-doped sodium aluminosilicate glasses. Journal of Non-Crystalline Solids, 2012, 358, 3193-3199.	1.5	17
173	Quantification of the boron speciation in alkali borosilicate glasses by electron energy loss spectroscopy. Scientific Reports, 2015, 5, 17526.	1.6	17
174	Poor glass-forming ability of Fe-based alloys: Its origin in high-temperature melt dynamics. Journal of Non-Crystalline Solids, 2017, 471, 120-127.	1.5	17
175	Fractography and tensile strength of glass wool fibres. Journal of the Ceramic Society of Japan, 2008, 116, 841-845.	0.5	16
176	Improvement of capacity and cycling performance of spinel LiMn2O4 cathode materials with TiO2-B nanobelts. Electrochimica Acta, 2013, 111, 691-697.	2.6	16
177	Modifier constraints in alkali ultraphosphate glasses. Journal of Non-Crystalline Solids, 2014, 405, 12-15.	1.5	16
178	Li₂NaV₂(PO₄)₃/Hard Carbon Nanocomposite Cathodes for Highâ€Performance Liâ€and Naâ€Ion Batteries. ChemElectroChem, 2017, 4, 671-678.	1.7	16
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