John C Mauro

List of Publications by Year
in descending order

327	11,407	36271 51	43868 91
papers	citations	h-index	g-index

331	331	331	5287
all docs	docs citations	times ranked	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	Resonant Waveguide Grating Biosensor for Living Cell Sensing. Biophysical Journal, 2006, 91, 1925-1940.	0.2	361
3	Towards Ultrastrong Glasses. Advanced Materials, 2011, 23, 4578-4586.	11.1	314
4	Topological Principles of Borosilicate Glass Chemistry. Journal of Physical Chemistry B, 2011, 115, 12930-12946.	1.2	289
5	Composition dependence of glass transition temperature and fragility. I. A topological model incorporating temperature-dependent constraints. Journal of Chemical Physics, 2009, 130, 094503.	1.2	284
6	Understanding Glass through Differential Scanning Calorimetry. Chemical Reviews, 2019, 119, 7848-7939.	23.0	258
7	Prediction of Glass Hardness Using Temperature-Dependent Constraint Theory. Physical Review Letters, 2010, 105, 115503.	2.9	225
8	Composition dependence of glass transition temperature and fragility. II. A topological model of alkali borate liquids. Journal of Chemical Physics, 2009, 130, 234503.	1.2	208
9	Accelerating the Design of Functional Glasses through Modeling. Chemistry of Materials, 2016, 28, 4267-4277.	3.2	204
10	The glassy state of matter: Its definition and ultimate fate. Journal of Non-Crystalline Solids, 2017, 471, 490-495.	1.5	201
11	A metal-organic framework with ultrahigh glass-forming ability. Science Advances, 2018, 4, eaao6827.	4.7	196
12	Quantitative Design of Glassy Materials Using Temperature-Dependent Constraint Theory. Chemistry of Materials, 2010, 22, 5358-5365.	3.2	156
13	Nonequilibrium viscosity of glass. Physical Review B, 2009, 80, .	1.1	144
14	Fragile-to-strong transition in metallic glass-forming liquids. Journal of Chemical Physics, 2010, 133, 014508.	1.2	136
15	Viscosity of glassâ€forming systems. Journal of the American Ceramic Society, 2017, 100, 6-25.	1.9	136
16	Dynamics of Glass Relaxation at Room Temperature. Physical Review Letters, 2013, 110, 265901.	2.9	133
17	Computing the viscosity of supercooled liquids. Journal of Chemical Physics, 2009, 130, 224504.	1.2	128
18	Structure and properties of sodium aluminosilicate glasses from molecular dynamics simulations. Journal of Chemical Physics, 2013, 139, 044507.	1.2	127

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19	Two Centuries of Glass Research: Historical Trends, Current Status, and Grand Challenges for the Future. International Journal of Applied Glass Science, 2014, 5, 313-327.	1.0	122
20	A new transferable interatomic potential for molecular dynamics simulations of borosilicate glasses. Journal of Non-Crystalline Solids, 2018, 498, 294-304.	1.5	121
21	Glass Science in the United States: Current Status and Future Directions. International Journal of Applied Glass Science, 2014, 5, 2-15.	1.0	119
22	Continuously broken ergodicity. Journal of Chemical Physics, 2007, 126, 184511.	1.2	112
23	Cooling rate effects in sodium silicate glasses: Bridging the gap between molecular dynamics simulations and experiments. Journal of Chemical Physics, 2017, 147, 074501.	1.2	107
24	Fictive Temperature and the Glassy State. Journal of the American Ceramic Society, 2009, 92, 75-86.	1.9	105
25	The laboratory glass transition. Journal of Chemical Physics, 2007, 126, 224504.	1.2	100
26	Compositionâ€“structureâ€“property relationships in boroaluminosilicate glasses. Journal of Non-Crystalline Solids, 2012, 358, 993-1002.	1.5	98
27	Topological origin of stretched exponential relaxation in glass. Journal of Chemical Physics, 2011, 135, 214502.	1.2	96
28	Statistical mechanics of glass. Journal of Non-Crystalline Solids, 2014, 396-397, 41-53.	1.5	96
29	Structure and mechanical properties of compressed sodium aluminosilicate glasses: Role of non-bridging oxygens. Journal of Non-Crystalline Solids, 2016, 441, 49-57.	1.5	89
30	Universality of the high-temperature viscosity limit of silicate liquids. Physical Review B, 2011, 83, .	1.1	86
31	Mixed alkaline earth effect in sodium aluminosilicate glasses. Journal of Non-Crystalline Solids, 2013, 369, 61-68.	1.5	85
32	Decoding the glass genome. Current Opinion in Solid State and Materials Science, 2018, 22, 58-64.	5.6	84
33	Selenium glass transition: A model based on the enthalpy landscape approach and nonequilibrium statistical mechanics. Physical Review B, 2007, 76, .	1.1	71
34	Atomistic understanding of the network dilation anomaly in ion-exchanged glass. Journal of Non-Crystalline Solids, 2012, 358, 316-320.	1.5	68
35	Metabasin Approach for Computing the Master Equation Dynamics of Systems with Broken Ergodicity. Journal of Physical Chemistry A, 2007, 111, 7957-7965.	1.1	67
36	Irreversibility of Pressure Induced Boron Speciation Change in Glass. Scientific Reports, 2014, 4, 3770.	1.6	65

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37	Heat capacity, enthalpy fluctuations, and configurational entropy in broken ergodic systems. Journal of Chemical Physics, 2010, 133, 164503.	1.2	63
38	A Nonequilibrium Statistical Mechanical Model of Structural Relaxation in Glass. Journal of the American Ceramic Society, 2006, 89, 1091-1094.	1.9	61
39	Glass: The Nanotechnology Connection. International Journal of Applied Glass Science, 2013, 4, 64-75.	1.0	59
40	Grand Challenges in Glass Science. Frontiers in Materials, 2014, 1, .	1.2	59
41	Interfacial adhesion behavior of polyimides on silica glass: A molecular dynamics study. Polymer, 2016, 98, 1-10.	1.8	59
42	Optical properties of a melt-quenched metalâ€“organic framework glass. Optics Letters, 2019, 44, 1623.	1.7	58
43	Origin of dynamical heterogeneities in calcium aluminosilicate liquids. Journal of Chemical Physics, 2010, 132, 194501.	1.2	57
44	Modeling of Rigidity Percolation and Incipient Plasticity in Germanium?Selenium Glasses. Journal of the American Ceramic Society, 2007, 90, 192-198.	1.9	56
45	Impact of fragility on enthalpy relaxation in glass. Physical Review E, 2008, 78, 021502.	0.8	56
46	Intrachannel nonlinear penalties in dispersion-managed transmission systems. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 626-631.	1.9	55
47	Nonmonotonic Evolution of Density Fluctuations during Glass Relaxation. Physical Review Letters, 2009, 102, 155506.	2.9	54
48	Elastic and micromechanical properties of isostatically compressed sodaâ€“limeâ€“borate glasses. Journal of Non-Crystalline Solids, 2013, 364, 44-52.	1.5	54
49	A model for phosphate glass topology considering the modifying ion sub-network. Journal of Chemical Physics, 2014, 140, .	1.2	54
50	Defect-mediated self-diffusion in calcium aluminosilicate glasses: A molecular modeling study. Journal of Non-Crystalline Solids, 2011, 357, 1780-1786.	1.5	53
51	Indentation deformation mechanism of isostatically compressed mixed alkali aluminosilicate glasses. Journal of Non-Crystalline Solids, 2015, 426, 175-183.	1.5	53
52	Mixed alkaline earth effect in the compressibility of aluminosilicate glasses. Journal of Chemical Physics, 2014, 140, 054511.	1.2	52
53	Elasticity of ion stuffing in chemically strengthened glass. Journal of Non-Crystalline Solids, 2012, 358, 1569-1574.	1.5	51
54	Unique effects of thermal and pressure histories on glass hardness: Structural and topological origin. Journal of Chemical Physics, 2015, 143, 164505.	1.2	51

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55	Advancing the Mechanical Performance of Glasses: Perspectives and Challenges. Advanced Materials, 2022, 34, e2109029.	11.1	50
56	Advancing glasses through fundamental research. Journal of the European Ceramic Society, 2009, 29, 1227-1234.	2.8	49
57	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
58	Sodium diffusion in boroaluminosilicate glasses. Journal of Non-Crystalline Solids, 2011, 357, 3744-3750.	1.5	49
59	Enabling Computational Design of ZIFs Using ReaxFF. Journal of Physical Chemistry B, 2018, 122, 9616-9624.	1.2	49
60	Topological Model for the Viscosity of Multicomponent Glassâ€Forming Liquids. International Journal of Applied Glass Science, 2013, 4, 408-413.	1.0	48
61	Multiscale modeling of arsenic selenide glass. Journal of Non-Crystalline Solids, 2007, 353, 1226-1231.	1.5	47
62	Composition-Structure-Property Relations of Compressed Borosilicate Glasses. Physical Review Applied, 2014, 2, .	1.5	47
63	Structure-topology-property correlations of sodium phosphosilicate glasses. Journal of Chemical Physics, 2015, 143, 064510.	1.2	47
64	Nanoductility in silicate glasses is driven by topological heterogeneity. Physical Review B, 2016, 93, .	1.1	47
65	Thermometer Effect: Origin of the Mixed Alkali Effect in Glass Relaxation. Physical Review Letters, 2017, 119, 095501.	2.9	47
66	Hardness and incipient plasticity in silicate glasses: Origin of the mixed modifier effect. Applied Physics Letters, 2014, 104, .	1.5	46
67	Emerging Role of Non-crystalline Electrolytes in Solid-State Battery Research. Frontiers in Energy Research, 2020, 8, .	1.2	46
68	Reconciling calorimetric and kinetic fragilities of glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 456, 95-100.	1.5	45
69	Computing the viscosity of supercooled liquids. II. Silica and strong-fragile crossover behavior. Journal of Chemical Physics, 2009, 131, 164505.	1.2	44
70	Communication: Resolving the vibrational and configurational contributions to thermal expansion in isobaric glass-forming systems. Journal of Chemical Physics, 2010, 133, 091102.	1.2	44
71	Unified physics of stretched exponential relaxation and Weibull fracture statistics. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6121-6127.	1.2	44
72	Statistics of modifier distributions in mixed network glasses. Journal of Chemical Physics, 2013, 138, 12A522.	1.2	43

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73	Structure of MgO/CaO sodium aluminosilicate glasses: Raman spectroscopy study. Journal of Non-Crystalline Solids, 2017, 470, 145-151.	1.5	43
74	Density of topological constraints as a metric for predicting glass hardness. Applied Physics Letters, 2017, 111, .	1.5	43
75	Wet chemical synthesis of apatite-based waste forms â€“ A novel room temperature method for the immobilization of radioactive iodine. Journal of Materials Chemistry A, 2017, 5, 14331-14342.	5.2	43
76	Enthalpy landscapes and the glass transition. Scientific Modeling and Simulation SMNS, 2008, 15, 241-281.	0.8	41
77	Ionic diffusion and the topological origin of fragility in silicate glasses. Journal of Chemical Physics, 2009, 131, 244514.	1.2	41
78	Impact of ZnO on the structure and properties of sodium aluminosilicate glasses: Comparison with alkaline earth oxides. Journal of Non-Crystalline Solids, 2013, 381, 58-64.	1.5	41
79	On the Prony series representation of stretched exponential relaxation. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 75-87.	1.2	41
80	Compositional Dependence of Solubility/Retention of Molybdenum Oxides in Aluminoborosilicate-Based Model Nuclear Waste Glasses. Journal of Physical Chemistry B, 2018, 122, 1714-1729.	1.2	41
81	A Simplified Eigenvector-Following Technique for Locating Transition Points in an Energy Landscape. Journal of Physical Chemistry A, 2005, 109, 9578-9583.	1.1	40
82	Impact of network topology on cationic diffusion and hardness of borate glass surfaces. Journal of Chemical Physics, 2010, 133, 154509.	1.2	40
83	Mutual diffusivity, network dilation, and salt bath poisoning effects in ion-exchanged glass. Journal of Non-Crystalline Solids, 2013, 363, 199-204.	1.5	40
84	Principles of PyrexÂ® glass chemistry: structureâ€“property relationships. Applied Physics A: Materials Science and Processing, 2014, 116, 491-504.	1.1	39
85	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
86	Crack initiation in metallic glasses under nanoindentation. Acta Materialia, 2016, 115, 413-422.	3.8	39
87	Monte Carlo method for computing density of states and quench probability of potential energy and enthalpy landscapes. Journal of Chemical Physics, 2007, 126, 194103.	1.2	38
88	Split-Step Eigenvector-Following Technique for Exploring Enthalpy Landscapes at Absolute Zero. Journal of Physical Chemistry B, 2006, 110, 5005-5011.	1.2	37
89	Ultraâ€Smooth and Ultraâ€Strong Ionâ€Exchanged Glass as Substrates for Organic Electronics. Advanced Functional Materials, 2013, 23, 3233-3238.	7.8	37
90	Microscopic Origins of Compositional Trends in Aluminosilicate Glass Properties. Journal of the American Ceramic Society, 2013, 96, 1436-1443.	1.9	37

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91	Model interaction potentials for selenium fromab initiomolecular simulations. Physical Review B, 2005, 71, .	1.1	36
92	Divergent dynamics and the Kauzmann temperature in glass forming systems. Scientific Reports, 2014, 4, 5160.	1.6	36
93	Ion exchange strengthening and thermal expansion of glasses: Common origin and critical role of network connectivity. Journal of Non-Crystalline Solids, 2017, 455, 70-74.	1.5	36
94	Statistical Mechanical Modeling of Borate Glass Structure and Topology: Prediction of Superstructural Units and Glass Transition Temperature. Journal of Physical Chemistry B, 2019, 123, 1206-1213.	1.2	36
95	The configurational entropy of glass. Journal of Non-Crystalline Solids, 2009, 355, 595-599.	1.5	35
96	Fragility and configurational heat capacity of calcium aluminosilicate glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 461, 24-34.	1.5	35
97	Functional GPCR Microarrays. Journal of the American Chemical Society, 2005, 127, 15350-15351.	6.6	34
98	Forbidden glasses and the failure of fictive temperature. Journal of Non-Crystalline Solids, 2009, 355, 676-680.	1.5	34
99	Fragility and basic process energies in vitrifying systems. Scientific Reports, 2015, 5, 8314.	1.6	34
100	Relaxation of enthalpy fluctuations during sub-Tg annealing of glassy selenium. Journal of Chemical Physics, 2013, 138, 244504.	1.2	33
101	Network Glasses Under Pressure: Permanent Densification in Modifier-Free <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mtext>â€“</mml:mtext><mml:msub><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow>. Physical Review Applied, 2017, 7, .	1.5	33
102	Topology of alkali phosphate glass networks. Journal of Non-Crystalline Solids, 2013, 361, 57-62.	1.5	32
103	Viscous flow of medieval cathedral glass. Journal of the American Ceramic Society, 2018, 101, 5-11.	1.9	32
104	Through a Glass, Darkly: Dispelling Three Common Misconceptions in Glass Science. International Journal of Applied Glass Science, 2011, 2, 245-261.	1.0	31
105	Hardness of silicate glasses: Atomic-scale origin of the mixed modifier effect. Journal of Non-Crystalline Solids, 2018, 489, 16-21.	1.5	31
106	Topological Origins of the Mixed Alkali Effect in Glass. Journal of Physical Chemistry B, 2019, 123, 7482-7489.	1.2	31
107	Model-driven design of bioactive glasses: from molecular dynamics through machine learning. International Materials Reviews, 2020, 65, 297-321.	9.4	31
108	Two factors governing fragility: Stretching exponent and configurational entropy. Physical Review E, 2008, 78, 062501.	0.8	30

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109	Influence of aluminum speciation on the stability of aluminosilicate glasses against crystallization. Applied Physics Letters, 2012, 101, 041906.	1.5	30
110	Crack nucleation criterion and its application to impact indentation in glasses. Scientific Reports, 2016, 6, 23720.	1.6	29
111	Prediction of the Glass Transition Temperatures of Zeolitic Imidazolate Glasses through Topological Constraint Theory. Journal of Physical Chemistry Letters, 2018, 9, 6985-6990.	2.1	29
112	An upper limit to kinetic fragility in glass-forming liquids. Journal of Chemical Physics, 2011, 134, 044522.	1.2	28
113	Characterizing the Fundamental Adhesion of Polyimide Monomers on Crystalline and Glassy Silica Surfaces: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2016, 120, 23631-23639.	1.5	28
114	Machine Learning for Glass Modeling. Springer Handbooks, 2019, , 1157-1192.	0.3	28
115	Computing the Viscosity of Supercooled Liquids: Markov Network Model. PLoS ONE, 2011, 6, e17909.	1.1	28
116	Elastic interpretation of the glass transition in aluminosilicate liquids. Physical Review B, 2012, 85, .	1.1	27
117	Computational approaches for investigating interfacial adhesion phenomena of polyimide on silica glass. Scientific Reports, 2017, 7, 10475.	1.6	27
118	Effects of water on the mechanical properties of silica glass using molecular dynamics. Acta Materialia, 2019, 178, 36-44.	3.8	27
119	Hardness of Oxynitride Glasses: Topological Origin. Journal of Physical Chemistry B, 2015, 119, 4109-4115.	1.2	26
120	Atomic picture of structural relaxation in silicate glasses. Applied Physics Letters, 2019, 114, .	1.5	26
121	Ultra-thin glass as a substrate for flexible photonics. Optical Materials, 2020, 106, 109994.	1.7	26
122	Effect of fragility on relaxation of density fluctuations in glass. Journal of Non-Crystalline Solids, 2011, 357, 3520-3523.	1.5	25
123	Molecular dynamics simulations of ion-exchanged glass. Journal of Non-Crystalline Solids, 2014, 403, 107-112.	1.5	25
124	Linking Equilibrium and Nonequilibrium Dynamics in Glass-Forming Systems. Journal of Physical Chemistry B, 2016, 120, 3226-3231.	1.2	25
125	Topological constraint model for the elasticity of glass-forming systems. Journal of Non-Crystalline Solids: X, 2019, 2, 100019.	0.5	25
126	Relating structural disorder and melting in complex mixed ligand zeolitic imidazolate framework glasses. Dalton Transactions, 2020, 49, 850-857.	1.6	25

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127	Structure-property relations in calcium aluminate glasses containing different divalent cations and SiO 2. Journal of Non-Crystalline Solids, 2015, 427, 160-165.	1.5	24
128	Universal behavior of changes in elastic moduli of hot compressed oxide glasses. Chemical Physics Letters, 2016, 651, 88-91.	1.2	24
129	Glass-activated regeneration of volumetric muscle loss. Acta Biomaterialia, 2020, 103, 306-317.	4.1	24
130	Maxwell relaxation time for nonexponential Î±â€•relaxation phenomena in glassy systems. Journal of the American Ceramic Society, 2020, 103, 3590-3599.	1.9	24
131	Glass-forming ability of soda lime borate liquids. Journal of Non-Crystalline Solids, 2012, 358, 658-665.	1.5	23
132	Structural origin of intrinsic ductility in binary aluminosilicate glasses. Journal of Non-Crystalline Solids, 2016, 452, 297-306.	1.5	23
133	Hybrid Monte Carlo technique for modeling of crystal nucleation and application to lithium disilicate glass-ceramics. Computational Materials Science, 2018, 149, 202-207.	1.4	23
134	Why does B₂O₃ suppress nepheline (NaAlSiO₄) crystallization in sodium aluminosilicate glasses?. Physical Chemistry Chemical Physics, 2020, 22, 8679-8698.	1.3	23
135	Minimalist landscape model of glass relaxation. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3446-3459.	1.2	22
136	Pressure-Induced Changes in Interdiffusivity and Compressive Stress in Chemically Strengthened Glass. ACS Applied Materials & Interfaces, 2014, 6, 10436-10444.	4.0	22
137	Effect of water on topological constraints in silica glass. Scripta Materialia, 2019, 160, 48-52.	2.6	22
138	Monte Carlo simulation ofSexTe1â^'xglass structure withab initiopotentials. Physical Review B, 2005, 72, .	1.1	21
139	Photoelastic response of alkaline earth aluminosilicate glasses. Optics Letters, 2012, 37, 293.	1.7	21
140	Time and humidity dependence of indentation cracking in aluminosilicate glasses. Journal of Non-Crystalline Solids, 2018, 491, 64-70.	1.5	21
141	Statistical mechanical model of bonding in mixed modifier glasses. Journal of the American Ceramic Society, 2018, 101, 1906-1915.	1.9	21
142	Topological understanding of the mixed alkaline earth effect in glass. Journal of Non-Crystalline Solids, 2020, 527, 119696.	1.5	21
143	Influence of acid leaching surface treatment on indentation cracking of soda lime silicate glass. Journal of Non-Crystalline Solids, 2020, 543, 120144.	1.5	21
144	Effect of nanoscale phase separation on the fracture behavior of glasses: Toward tough, yet transparent glasses. Physical Review Materials, 2018, 2, .	0.9	21

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145	Comment on: â€œOn the reality of residual entropies of glasses and disordered crystalsâ€•[J. Chem. Phys. 128, 154510 (2008)]. Journal of Chemical Physics, 2008, 129, 067101.	1.2	20
146	Effects of Thermal and Pressure Histories on the Chemical Strengthening of Sodium Aluminosilicate Glass. Frontiers in Materials, 2016, 3, .	1.2	20
147	Competing Indentation Deformation Mechanisms in Glass Using Different Strengthening Methods. Frontiers in Materials, 2016, 3, .	1.2	20
148	Crucial effect of angular flexibility on the fracture toughness and nano-ductility of aluminosilicate glasses. Journal of Non-Crystalline Solids, 2016, 454, 46-51.	1.5	20
149	Variability in the relaxation behavior of glass: Impact of thermal history fluctuations and fragility. Journal of Chemical Physics, 2017, 146, 074504.	1.2	20
150	Dataâ€đriven glass/ceramic science research: Insights from the glass and ceramic and data science/informatics communities. Journal of the American Ceramic Society, 2019, 102, 6385-6406.	1.9	20
151	Examining the role of nucleating agents within glass-ceramic systems. Journal of Non-Crystalline Solids, 2022, 591, 121714.	1.5	20
152	Fiber design considerations for 40 Gb/s systems. Journal of Lightwave Technology, 2002, 20, 2290-2305.	2.7	19
153	Liquidus surface of MgOâ€“CaOâ€“Al2O3â€“SiO2 glass-forming systems. Journal of Non-Crystalline Solids, 2013, 363, 39-45.	1.5	19
154	Temperature dependence of crystal nucleation in BaOÂ·2SiO2 and 5BaOÂ·8SiO2 glasses using differential thermal analysis. Journal of Non-Crystalline Solids, 2017, 459, 45-50.	1.5	19
155	Implicit glass model for simulation of crystal nucleation for glass-ceramics. Npj Computational Materials, 2018, 4, .	3.5	19
156	Relative abundance of subsurface hydroxyl and molecular water species in silicate and aluminosilicate glasses. Journal of Non-Crystalline Solids, 2019, 510, 179-185.	1.5	19
157	Evaluation of classical interatomic potentials for molecular dynamics simulations of borosilicate glasses. Journal of Non-Crystalline Solids, 2020, 528, 119736.	1.5	19
158	Energy landscape modeling of crystal nucleation. Acta Materialia, 2021, 217, 117163.	3.8	19
159	Cation Diffusivity and the Mixed Network Former Effect in Borosilicate Glasses. Journal of Physical Chemistry B, 2015, 119, 7106-7115.	1.2	18
160	Effect of Nanoscale Roughness on Adhesion between Glassy Silica and Polyimides: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2017, 121, 24648-24656.	1.5	18
161	Hybrid machine learning/physics-based approach for predicting oxide glass-forming ability. Acta Materialia, 2022, 222, 117432.	3.8	18
162	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

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163	Adhesion of Organic Molecules on Silica Surfaces: A Density Functional Theory Study. Journal of Physical Chemistry C, 2017, 121, 392-401.	1.5	17
164	Topological Origin of the Network Dilation Anomaly in Ion-Exchanged Glasses. Physical Review Applied, 2017, 8, .	1.5	17
165	Predicting Q-Speciation in Binary Phosphate Glasses Using Statistical Mechanics. Journal of Physical Chemistry B, 2018, 122, 7609-7615.	1.2	17
166	Topological pruning enables ultra-low Rayleigh scattering in pressure-quenched silica glass. Npj Computational Materials, 2020, 6, .	3.5	17
167	Modifier constraints in alkali ultraphosphate glasses. Journal of Non-Crystalline Solids, 2014, 405, 12-15.	1.5	16
168	Simulation of glass network evolution during chemical strengthening: Resolution of the subsurface compression maximum anomaly. Journal of Non-Crystalline Solids, 2019, 522, 119457.	1.5	16
169	Modifier clustering and avoidance principle in borosilicate glasses: A molecular dynamics study. Journal of Chemical Physics, 2019, 150, 044502.	1.2	16
170	Tailoring Cluster Configurations Enables Tunable Broad-Band Luminescence in Glass. Chemistry of Materials, 2020, 32, 8653-8661.	3.2	16
171	Predictive model for the composition dependence of glassy dynamics. Journal of the American Ceramic Society, 2018, 101, 1169-1179.	1.9	16
172	Are the dynamics of a glass embedded in its elastic properties?. Journal of Chemical Physics, 2013, 138, 12A501.	1.2	15
173	Plasticity of borosilicate glasses under uniaxial tension. Journal of the American Ceramic Society, 2020, 103, 4295-4303.	1.9	15
174	Indentation and abrasion in glass products: Lessons learned and yet to be learned. International Journal of Applied Glass Science, 2022, 13, 308-337.	1.0	15
175	Structural relaxation in annealed hyperquenched basaltic glasses: Insights from calorimetry. Journal of Non-Crystalline Solids, 2012, 358, 1356-1361.	1.5	14
176	Compositional control of the photoelastic response of silicate glasses. Optical Materials, 2013, 35, 2435-2439.	1.7	14
177	Anomalous Crystallization as a Signature of the Fragile-to-Strong Transition in Metallic Glass-Forming Liquids. Journal of Physical Chemistry B, 2014, 118, 10258-10265.	1.2	14
178	High-speed camera study of Stage III crack propagation in chemically strengthened glass. Applied Physics A: Materials Science and Processing, 2014, 116, 471-477.	1.1	14
179	RelaxPy: Python code for modeling of glass relaxation behavior. SoftwareX, 2018, 7, 255-258.	1.2	14
180	Statistical mechanics of topological fluctuations in glass-forming liquids. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 787-801.	1.2	14

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181	Analytical model of the network topology and rigidity of calcium aluminosilicate glasses. Journal of the American Ceramic Society, 2021, 104, 3947-3962.	1.9	14
182	Topological hardening through oxygen triclusters in calcium aluminosilicate glasses. Journal of the American Ceramic Society, 2021, 104, 6183-6193.	1.9	14
183	Boron anomaly in the thermal conductivity of lithium borate glasses. Physical Review Materials, 2019, 3, .	0.9	14
184	Beyond the Average: Spatial and Temporal Fluctuations in Oxide Glass-Forming Systems. Chemical Reviews, 2023, 123, 1774-1840.	23.0	14
185	Mapping the potential energy landscapes of selenium clusters. Journal of Non-Crystalline Solids, 2007, 353, 1268-1273.	1.5	13
186	Non-equilibrium entropy of glasses formed by continuous cooling. Journal of Non-Crystalline Solids, 2009, 355, 600-606.	1.5	13
187	The Thermodynamic Significance of Order Parameters During Glass Relaxation. Journal of the American Ceramic Society, 2010, 93, 1026-1031.	1.9	13
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