

John C Mauro

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

319
papers

8,668
citations

45
h-index

80
g-index

331
ext. papers

10,135
ext. citations

4.6
avg, IF

6.71
L-index

#	Paper	IF	Citations
3 ¹⁹	StatMechGlass: Python based software for composition-structure prediction in oxide glasses using statistical mechanics. <i>SoftwareX</i> , 2022 , 17, 100913	2.7	0
3 ¹⁸	Statistical mechanical model for the formation of octahedral silicon in phosphosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1031	3.8	0
3 ¹⁷	Examining the phase evolution of lithium disilicate glass-ceramics with lithium tantalate as a secondary phase. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 268	3.8	1
3 ¹⁶	Mixed metal node effect in zeolitic imidazolate frameworks.. <i>RSC Advances</i> , 2022 , 12, 10815-10824	3.7	0
3 ¹⁵	Experimental analysis and modeling of the Knoop hardness of lithium disilicate glass-ceramics containing lithium tantalate as a secondary phase. <i>Journal of Non-Crystalline Solids</i> , 2022 , 585, 121540	3.9	1
3 ¹⁴	Lateral-pushing induced surface lift-up during nanoindentation of silicate glass. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 2625-2633	3.8	0
3 ¹³	Examining the role of nucleating agents within glass-ceramic systems. <i>Journal of Non-Crystalline Solids</i> , 2022 , 591, 121714	3.9	5
3 ¹²	Advancing the Mechanical Performance of Glasses: Perspectives and Challenges. <i>Advanced Materials</i> , 2021 , e2109029	24	8
3 ¹¹	Hybrid machine learning/physics-based approach for predicting oxide glass-forming ability. <i>Acta Materialia</i> , 2021 , 222, 117432	8.4	2
3 ¹⁰	Thermal conductivity of densified borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 557, 120644	4.9	3
3 ⁰⁹	Chemical durability of borosilicate pharmaceutical glasses: Mixed alkaline earth effect with varying [MgO]/[CaO] ratio. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3973-3981	3.8	0
3 ⁰⁸	Analytical model of the network topology and rigidity of calcium aluminosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3947-3962	3.8	4
3 ⁰⁷	Geometric analysis of the calorimetric glass transition and fragility using constant cooling rate cycles. <i>International Journal of Applied Glass Science</i> , 2021 , 12, 348-357	1.8	4
3 ⁰⁶	Effects of acid leaching treatment of soda-lime silicate glass on crack initiation and fracture. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4550-4558	3.8	2
3 ⁰⁵	Fragility and temperature dependence of stretched exponential relaxation in glass-forming systems. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4559-4567	3.8	1
3 ⁰⁴	Theory of structural relaxation in glass from the thermodynamics of irreversible processes. <i>Physical Review E</i> , 2021 , 103, 062606	2.4	0
3 ⁰³	Explorer.py: Mapping the energy landscapes of complex materials. <i>SoftwareX</i> , 2021 , 14, 100683	2.7	3

302	Coupling of diffusion and chemical stress: The case of ion exchange in glass. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5599-5613	3.8	0
301	Volume relaxation in a borosilicate glass hot compressed by three different methods. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 816-823	3.8	1
300	Decoupling of indentation modulus and hardness in silicate glasses: Evidence of a shear- to densification-dominated transition. <i>Journal of Non-Crystalline Solids</i> , 2021 , 553, 120518	3.9	1
299	Atomistic Mechanisms of Thermal Transformation in a Zr-Metal Organic Framework, MIL-140C. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 177-184	6.4	3
298	Aluminosilicate glasses for zinc selenide tunable fiber laser cladding. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 691-696	3.8	2
297	Understanding thermal expansion of pressurized silica glass using topological pruning of ring structures. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 114-127	3.8	3
296	Diffusion in Polymers and Glasses 2021 , 199-215		
295	Monte Carlo Techniques 2021 , 443-466		
294	Thermodynamics vs. Kinetics 2021 , 1-17		0
293	Relaxation of Glasses and Polymers 2021 , 389-418		
292	Viscosity of Liquids 2021 , 269-294		
291	Nonequilibrium Viscosity and the Glass Transition 2021 , 295-314		0
290	Master Equations 2021 , 363-387		
289	Energy Landscapes 2021 , 315-340		
288	Pressure effects on shear deformation of borosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3073-3086	3.8	1
287	Atomic-scale mechanisms of densification in cold-compressed borosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2506-2520	3.8	3
286	Piezoelectric glass-ceramics: Crystal chemistry, orientation mechanisms, and emerging applications. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1915-1944	3.8	2
285	Topological hardening through oxygen triclusters in calcium aluminosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 6183	3.8	1

284	Energy landscape modeling of crystal nucleation. <i>Acta Materialia</i> , 2021 , 217, 117163	8.4	5
283	Atomic-scale modeling of crack branching in oxide glass. <i>Acta Materialia</i> , 2021 , 216, 117098	8.4	1
282	Broken Ergodicity 2021 , 341-362		
281	Fluctuations in Condensed Matter 2021 , 467-486		
280	Molecular Dynamics 2021 , 419-442		
279	Tailoring Cluster Configurations Enables Tunable Broad-Band Luminescence in Glass. <i>Chemistry of Materials</i> , 2020 , 32, 8653-8661	9.6	3
278	Mixed Alkali Effect in Silicate Glass Structure: Viewpoint of Si Nuclear Magnetic Resonance and Statistical Mechanics. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10292-10299	3.4	6
277	Bauchy et al. Reply. <i>Physical Review Letters</i> , 2020 , 124, 199602	7.4	
276	Thermal expansion of silicate glass-forming systems at high temperatures from topological pruning of ring structures. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4256-4265	3.8	6
275	Topological model of alkali germanate glasses and exploration of the germanate anomaly. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4224-4233	3.8	4
274	Dilatometric fragility and prediction of the viscosity curve of glass-forming liquids. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4248-4255	3.8	3
273	Predicting Ionic Diffusion in Glass from Its Relaxation Behavior. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1099-1103	3.4	4
272	Maxwell relaxation time for nonexponential relaxation phenomena in glassy systems. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3590-3599	3.8	13
271	Plasticity of borosilicate glasses under uniaxial tension. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4295-4303	3.8	9
270	Understanding cracking behavior of glass from its response to hydrostatic compression. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
269	Modeling of Glasses: An Overview 2020 , 1977-1995		1
268	Mechanical and Compositional Design of High-Strength Corning Gorilla® Glass 2020 , 1997-2019		1
267	Influence of acid leaching surface treatment on indentation cracking of soda lime silicate glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 543, 120144	3.9	7

266	Ultra-thin glass as a substrate for flexible photonics. <i>Optical Materials</i> , 2020 , 106, 109994	3.3	11
265	Evaluation of classical interatomic potentials for molecular dynamics simulations of borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020 , 528, 119736	3.9	13
264	Relating structural disorder and melting in complex mixed ligand zeolitic imidazolate framework glasses. <i>Dalton Transactions</i> , 2020 , 49, 850-857	4.3	17
263	Topological understanding of the mixed alkaline earth effect in glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 527, 119696	3.9	10
262	KineticPy: A tool to calculate long-time kinetics in energy landscapes with broken ergodicity. <i>SoftwareX</i> , 2020 , 11, 100393	2.7	4
261	Comment on The fragility of alkali silicate glass melts: Part of a universal topological pattern by D.L. Sidebottom. <i>Journal of Non-Crystalline Solids</i> , 2020 , 529, 119799	3.9	
260	Glass-activated regeneration of volumetric muscle loss. <i>Acta Biomaterialia</i> , 2020 , 103, 306-317	10.8	11
259	Model-driven design of bioactive glasses: from molecular dynamics through machine learning. <i>International Materials Reviews</i> , 2020 , 65, 297-321	16.1	10
258	Determining the liquidus viscosity of glass-forming liquids through differential scanning calorimetry. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6070-6074	3.8	4
257	Predicting Cation Interactions in Alkali Aluminoborate Glasses using Statistical Mechanics. <i>Journal of Non-Crystalline Solids</i> , 2020 , 544, 120099	3.9	3
256	Atomic structure of hot compressed borosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6215-6225	3.8	5
255	Statistical description of the thermodynamics of glass-forming liquids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 559, 125059	3.3	1
254	Topological pruning enables ultra-low Rayleigh scattering in pressure-quenched silica glass. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	9
253	Emerging Role of Non-crystalline Electrolytes in Solid-State Battery Research. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	18
252	Signatures of criticality in mining accidents and recurrent neural network forecasting model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 537, 122656	3.3	2
251	Why does BO suppress nepheline (NaAlSiO) crystallization in sodium aluminosilicate glasses?. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8679-8698	3.6	15
250	Crack initiation in an indented metallic glass with embedded nanoparticle. <i>Journal of Applied Physics</i> , 2019 , 125, 025106	2.5	4
249	Modifier clustering and avoidance principle in borosilicate glasses: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2019 , 150, 044502	3.9	11

248	Structure, properties, and fabrication of calcium aluminate-based glasses. <i>International Journal of Applied Glass Science</i> , 2019 , 10, 488-501	1.8	4
247	Topological constraint model of high lithium content borate glasses. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 3, 100028	2.5	3
246	Topological Control of Water Reactivity on Glass Surfaces: Evidence of a Chemically Stable Intermediate Phase. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3955-3960	6.4	3
245	Atomic picture of structural relaxation in silicate glasses. <i>Applied Physics Letters</i> , 2019 , 114, 233703	3.4	16
244	Understanding Glass through Differential Scanning Calorimetry. <i>Chemical Reviews</i> , 2019 , 119, 7848-7939	68.1	124
243	Glass transition range behavior 2019 , 293-382		1
242	Thermal expansion of glass 2019 , 253-271		
241	Statistical Mechanical Model of the Self-Organized Intermediate Phase in Glass-Forming Systems With Adaptable Network Topologies. <i>Frontiers in Materials</i> , 2019 , 6,	4	5
240	Glass compositions and structures 2019 , 101-164		1
239	Permeation, diffusion, and ionic conduction in glass 2019 , 383-424		
238	Fundamentals of the glassy state 2019 , 19-35		1
237	Composition-structure-property relationship principles 2019 , 165-172		
236	Density and molar volume 2019 , 173-186		
235	Elastic properties and hardness of glass 2019 , 187-214		
234	The viscosity of glass 2019 , 215-251		
233	Strength and toughness 2019 , 487-535		1
232	Glass surfaces 2019 , 595-606		1
231	Modeling of glass 2019 , 607-630		

230	Emerging applications of glass 2019 , 687-701		0
229	Perspectives on the scientific career and impact of Prabhat K. Gupta. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 1, 100011	2.5	1
228	Fundamentals of Organic-Glass Adhesion 2019 , 1-41		2
227	The relativistic glass transition: A thought experiment. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 2, 1000185	1.85	1
226	Topological constraint model for the elasticity of glass-forming systems. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 2, 100019	2.5	19
225	Understanding the molar volume of alkali-alkaline earth-silicate glasses via Voronoi polyhedra analysis. <i>Scripta Materialia</i> , 2019 , 166, 1-5	5.6	7
224	Quantifying the internal stress in over-constrained glasses by molecular dynamics simulations. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 1, 100013	2.5	8
223	Fundamentals of Organic-Glass Adhesion 2019 , 1-41		
222	Relative abundance of subsurface hydroxyl and molecular water species in silicate and aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 510, 179-185	3.9	15
221	Modeling the Relaxation Behavior of Glasses for Display Applications 2019 , 1-19		
220	Modeling the Relaxation Behavior of Glasses for Display Applications 2019 , 1-19		
219	Quantitative prediction of the structure and properties of $\text{Li}_2\text{O}-\text{CaO}-\text{SiO}_2-\text{Bi}_2\text{O}_3$ glasses via phase diagram approach. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 185-194	3.8	3
218	Statistical Mechanical Model of Topological Fluctuations and the Intermediate Phase in Binary Phosphate Glasses. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 7640-7648	3.4	3
217	Effects of water on the mechanical properties of silica glass using molecular dynamics. <i>Acta Materialia</i> , 2019 , 178, 36-44	8.4	12
216	Simulation of glass network evolution during chemical strengthening: Resolution of the subsurface compression maximum anomaly. <i>Journal of Non-Crystalline Solids</i> , 2019 , 522, 119457	3.9	9
215	Topological Origins of the Mixed Alkali Effect in Glass. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 7482-7489	3.89	12
214	Data-driven glass/ceramic science research: Insights from the glass and ceramic and data science/informatics communities. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6385-6406	3.8	12
213	Predicting Composition-Structure Relations in Alkali Borosilicate Glasses Using Statistical Mechanics. <i>Frontiers in Materials</i> , 2019 , 6,	4	8

212	Topological model for Bi ₂ O ₃ -NaPO ₃ glasses. I. Prediction of glass transition temperature and fragility. <i>Journal of Non-Crystalline Solids</i> , 2019 , 521, 119534	3.9	2
211	Boron anomaly in the thermal conductivity of lithium borate glasses. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
210	Optical properties of a melt-quenched metal-organic framework glass. <i>Optics Letters</i> , 2019 , 44, 1623-1625		33
209	Modeling of Glasses: an Overview 2019 , 1-19		
208	Machine Learning for Glass Modeling. <i>Springer Handbooks</i> , 2019 , 1157-1192	1.3	14
207	Liquid fragility determination of oxide glass-formers using temperature-modulated DSC. <i>International Journal of Applied Glass Science</i> , 2019 , 10, 321-329	1.8	4
206	Statistical Mechanical Modeling of Borate Glass Structure and Topology: Prediction of Superstructural Units and Glass Transition Temperature. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 12062-1213	3.4	22
205	Synthesis and characterization of K ₂ O-ZnO-GeO ₂ -SiO ₂ optical glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 503-504, 308-312	3.9	2
204	Effect of water on topological constraints in silica glass. <i>Scripta Materialia</i> , 2019 , 160, 48-52	5.6	15
203	Bioactive Glasses for Cancer Therapy 2019 , 273-312		3
202	A metal-organic framework with ultrahigh glass-forming ability. <i>Science Advances</i> , 2018 , 4, eaao6827	14.3	112
201	On the Prony series representation of stretched exponential relaxation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 506, 75-87	3.3	24
200	Hybrid Monte Carlo technique for modeling of crystal nucleation and application to lithium disilicate glass-ceramics. <i>Computational Materials Science</i> , 2018 , 149, 202-207	3.2	15
199	Time and humidity dependence of indentation cracking in aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 491, 64-70	3.9	14
198	Response to comment on "The glassy state of matter: Its definition and ultimate fate" <i>Journal of Non-Crystalline Solids</i> , 2018 , 502, 251-252	3.9	2
197	Parametric study of temperature-modulated differential scanning calorimetry for high-temperature oxide glasses with varying fragility. <i>Journal of Non-Crystalline Solids</i> , 2018 , 484, 84-94	3.9	3
196	Compositional Dependence of Solubility/Retention of Molybdenum Oxides in Aluminoborosilicate-Based Model Nuclear Waste Glasses. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1714-1729	3.4	26
195	A new transferable interatomic potential for molecular dynamics simulations of borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 498, 294-304	3.9	76

194	Hardness of silicate glasses: Atomic-scale origin of the mixed modifier effect. <i>Journal of Non-Crystalline Solids</i> , 2018 , 489, 16-21	3.9	25
193	Viscous flow of medieval cathedral glass. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5-11	3.8	25
192	Decoding the glass genome. <i>Current Opinion in Solid State and Materials Science</i> , 2018 , 22, 58-64	12	52
191	Predicting Q-Speciation in Binary Phosphate Glasses Using Statistical Mechanics. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7609-7615	3.4	11
190	RelaxPy: Python code for modeling of glass relaxation behavior. <i>SoftwareX</i> , 2018 , 7, 255-258	2.7	10
189	Statistical mechanics of topological fluctuations in glass-forming liquids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 510, 787-801	3.3	9
188	Combining high hardness and crack resistance in mixed network glasses through high-temperature densification. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
187	Effect of nanoscale phase separation on the fracture behavior of glasses: Toward tough, yet transparent glasses. <i>Physical Review Materials</i> , 2018 , 2,	3.2	11
186	Predictive model for the composition dependence of glassy dynamics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1169-1179	3.8	13
185	Unusual thermal response of tellurium near-infrared luminescence in phosphate laser glass. <i>Optics Letters</i> , 2018 , 43, 4823-4826	3	5
184	Statistical mechanical model of bonding in mixed modifier glasses. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1906-1915	3.8	15
183	Implicit glass model for simulation of crystal nucleation for glass-ceramics. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	14
182	Prediction of the Glass Transition Temperatures of Zeolitic Imidazolate Glasses through Topological Constraint Theory. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6985-6990	6.4	21
181	Enabling Computational Design of ZIFs Using ReaxFF. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9616-9624	3.4	30
180	Mechanical and Compositional Design of High-Strength Corning Gorilla [®] Glass 2018 , 1-23		7
179	Comment on "Glass Transition, Crystallization of Glass-Forming Melts, and Entropy" 2018, , 103. <i>Entropy</i> , 2018 , 20,	2.8	2
178	Topological constraint model of alkali tellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 502, 172-175	3.5	6
177	Modeling of delayed elasticity in glass. <i>Journal of Non-Crystalline Solids</i> , 2018 , 500, 432-442	3.9	4

176	Temperature dependence of crystal nucleation in BaO \cdot SiO $_2$ and 5BaO \cdot SiO $_2$ glasses using differential thermal analysis. <i>Journal of Non-Crystalline Solids</i> , 2017 , 459, 45-50	3.9	15
175	Fragility and configurational heat capacity of calcium aluminosilicate glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2017 , 461, 24-34	3.9	17
174	Modeling the thermal poling of glasses using molecular dynamics. Part 1: Effects on glass structure. <i>Journal of Non-Crystalline Solids</i> , 2017 , 461, 98-103	3.9	9
173	Variability in the relaxation behavior of glass: Impact of thermal history fluctuations and fragility. <i>Journal of Chemical Physics</i> , 2017 , 146, 074504	3.9	15
172	Photoelastic response of permanently densified oxide glasses. <i>Optical Materials</i> , 2017 , 67, 155-161	3.3	4
171	Modeling the thermal poling of glasses using molecular dynamics. Part 2: Effects on elastic properties. <i>Journal of Non-Crystalline Solids</i> , 2017 , 468, 17-26	3.9	1
170	Structure of MgO/CaO sodium aluminosilicate glasses: Raman spectroscopy study. <i>Journal of Non-Crystalline Solids</i> , 2017 , 470, 145-151	3.9	24
169	The glassy state of matter: Its definition and ultimate fate. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 490-495	3.9	135
168	Adhesion of Organic Molecules on Silica Surfaces: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 392-401	3.8	13
167	Viscosity of glass-forming systems. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 6-25	3.8	105
166	Ion exchange strengthening and thermal expansion of glasses: Common origin and critical role of network connectivity. <i>Journal of Non-Crystalline Solids</i> , 2017 , 455, 70-74	3.9	25
165	Computational approaches for investigating interfacial adhesion phenomena of polyimide on silica glass. <i>Scientific Reports</i> , 2017 , 7, 10475	4.9	19
164	Effect of Nanoscale Roughness on Adhesion between Glassy Silica and Polyimides: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24648-24656	3.8	13
163	Cooling rate effects in sodium silicate glasses: Bridging the gap between molecular dynamics simulations and experiments. <i>Journal of Chemical Physics</i> , 2017 , 147, 074501	3.9	83
162	Thermometer Effect: Origin of the Mixed Alkali Effect in Glass Relaxation. <i>Physical Review Letters</i> , 2017 , 119, 095501	7.4	41
161	Accessing Forbidden Glass Regimes through High-Pressure Sub-T Annealing. <i>Scientific Reports</i> , 2017 , 7, 46631	4.9	6
160	Modified elastic model for viscosity in glass-forming systems. <i>Physical Review B</i> , 2017 , 96,	3.3	6
159	Topological Origin of the Network Dilation Anomaly in Ion-Exchanged Glasses. <i>Physical Review Applied</i> , 2017 , 8,	4.3	13

158	Density of topological constraints as a metric for predicting glass hardness. <i>Applied Physics Letters</i> , 2017 , 111, 011907	3.4	35
157	Network Glasses Under Pressure: Permanent Densification in Modifier-Free Al ₂ O ₃ B ₂ O ₃ B ₂ O ₅ SiO ₂ Systems. <i>Physical Review Applied</i> , 2017 , 7,	4.3	21
156	Wet chemical synthesis of apatite-based waste forms [A novel room temperature method for the immobilization of radioactive iodine. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14331-14342	13	26
155	Reconciling calorimetric and kinetic fragilities of glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2017 , 456, 95-100	3.9	35
154	Nanoductility in silicate glasses is driven by topological heterogeneity. <i>Physical Review B</i> , 2016 , 93,	3.3	35
153	Crucial effect of angular flexibility on the fracture toughness and nano-ductility of aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 454, 46-51	3.9	18
152	Chemical Strengthening of Alkali-Free Glass via Pressure Vessel Ion Exchange. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 446-451	1.8	6
151	Crack nucleation criterion and its application to impact indentation in glasses. <i>Scientific Reports</i> , 2016 , 6, 23720	4.9	26
150	Accelerating the Design of Functional Glasses through Modeling. <i>Chemistry of Materials</i> , 2016 , 28, 4267-4277	9.7	136
149	Crack initiation in metallic glasses under nanoindentation. <i>Acta Materialia</i> , 2016 , 115, 413-422	8.4	30
148	Linking Equilibrium and Nonequilibrium Dynamics in Glass-Forming Systems. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3226-31	3.4	21
147	Interfacial adhesion behavior of polyimides on silica glass: A molecular dynamics study. <i>Polymer</i> , 2016 , 98, 1-10	3.9	44
146	Universal behavior of changes in elastic moduli of hot compressed oxide glasses. <i>Chemical Physics Letters</i> , 2016 , 651, 88-91	2.5	21
145	Effects of Thermal and Pressure Histories on the Chemical Strengthening of Sodium Aluminosilicate Glass. <i>Frontiers in Materials</i> , 2016 , 3,	4	11
144	Competing Indentation Deformation Mechanisms in Glass Using Different Strengthening Methods. <i>Frontiers in Materials</i> , 2016 , 3,	4	16
143	Bioactive Glass Innovations Through Academia-Industry Collaboration. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 139-146	1.8	7
142	Structure and mechanical properties of compressed sodium aluminosilicate glasses: Role of non-bridging oxygens. <i>Journal of Non-Crystalline Solids</i> , 2016 , 441, 49-57	3.9	71
141	Characterizing the Fundamental Adhesion of Polyimide Monomers on Crystalline and Glassy Silica Surfaces: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23631-23639	3.8	19

140	Structural origin of intrinsic ductility in binary aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 452, 297-306	3.9	18
139	Confocal depth-resolved micro-X-ray absorption spectroscopy study of chemically strengthened boroaluminosilicate glasses. <i>RSC Advances</i> , 2016 , 6, 24060-24065	3.7	3
138	Fragility and basic process energies in vitrifying systems. <i>Scientific Reports</i> , 2015 , 5, 8314	4.9	27
137	Structure-property relations in calcium aluminate glasses containing different divalent cations and SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2015 , 427, 160-165	3.9	18
136	Hardness of oxynitride glasses: topological origin. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4109-15	3.4	22
135	Structure-topology-property correlations of sodium phosphosilicate glasses. <i>Journal of Chemical Physics</i> , 2015 , 143, 064510	3.9	35
134	Indentation deformation mechanism of isostatically compressed mixed alkali aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015 , 426, 175-183	3.9	42
133	Response to "Comment on 'A model for phosphate glass topology considering the modifying ion sub-network'" [J. Chem. Phys. 142, 107103 (2015)]. <i>Journal of Chemical Physics</i> , 2015 , 142, 107104	3.9	2
132	Unique effects of thermal and pressure histories on glass hardness: Structural and topological origin. <i>Journal of Chemical Physics</i> , 2015 , 143, 164505	3.9	43
131	Methods for Measurement and Statistical Analysis of the Frangibility of Strengthened Glass. <i>Frontiers in Materials</i> , 2015 , 2,	4	7
130	Cation Diffusivity and the Mixed Network Former Effect in Borosilicate Glasses. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7106-15	3.4	14
129	Effect of divalent cations and SiO ₂ on the crystallization behavior of calcium aluminate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015 , 413, 20-23	3.9	6
128	Divergent dynamics and the Kauzmann temperature in glass forming systems. <i>Scientific Reports</i> , 2014 , 4, 5160	4.9	30
127	Mixed alkaline earth effect in the compressibility of aluminosilicate glasses. <i>Journal of Chemical Physics</i> , 2014 , 140, 054511	3.9	42
126	Two Centuries of Glass Research: Historical Trends, Current Status, and Grand Challenges for the Future. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 313-327	1.8	87
125	Composition-Structure-Property Relations of Compressed Borosilicate Glasses. <i>Physical Review Applied</i> , 2014 , 2,	4.3	38
124	Modifier constraints in alkali ultraphosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2014 , 405, 12-15	3.9	14
123	Anomalous crystallization as a signature of the fragile-to-strong transition in metallic glass-forming liquids. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10258-65	3.4	13

122	High-speed camera study of Stage III crack propagation in chemically strengthened glass. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 471-477	2.6	10
121	Principles of Pyrex [®] glass chemistry: structure-property relationships. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 491-504	2.6	32
120	On the origin of the mixed alkali effect on indentation in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2014 , 406, 22-26	3.9	28
119	Dynamic fracturing of strengthened glass under biaxial tensile loading. <i>Journal of Non-Crystalline Solids</i> , 2014 , 405, 153-158	3.9	4
118	Pressure-induced changes in interdiffusivity and compressive stress in chemically strengthened glass. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10436-44	9.5	19
117	Statistical mechanics of glass. <i>Journal of Non-Crystalline Solids</i> , 2014 , 396-397, 41-53	3.9	72
116	Irreversibility of pressure induced boron speciation change in glass. <i>Scientific Reports</i> , 2014 , 4, 3770	4.9	46
115	Grand Challenges in Glass Science. <i>Frontiers in Materials</i> , 2014 , 1,	4	42
114	Gordon Scott Fulcher: Renaissance Man of Glass Science. <i>Frontiers in Materials</i> , 2014 , 1,	4	6
113	Molecular dynamics simulations of ion-exchanged glass. <i>Journal of Non-Crystalline Solids</i> , 2014 , 403, 107-112	3.9	24
112	Hardness and incipient plasticity in silicate glasses: Origin of the mixed modifier effect. <i>Applied Physics Letters</i> , 2014 , 104, 051913	3.4	41
111	Glass Science in the United States: Current Status and Future Directions. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 2-15	1.8	92
110	A model for phosphate glass topology considering the modifying ion sub-network. <i>Journal of Chemical Physics</i> , 2014 , 140, 154501	3.9	47
109	Compressive stress profiles of chemically strengthened glass after exposure to high voltage electric fields. <i>Journal of Non-Crystalline Solids</i> , 2014 , 394-395, 6-8	3.9	8
108	Non-conservation of the total alkali concentration in ion-exchanged glass. <i>Journal of Non-Crystalline Solids</i> , 2014 , 387, 71-75	3.9	7
107	Relaxation of enthalpy fluctuations during sub-T(g) annealing of glassy selenium. <i>Journal of Chemical Physics</i> , 2013 , 138, 244504	3.9	28
106	Structure and properties of sodium aluminosilicate glasses from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2013 , 139, 044507	3.9	96
105	Compositional control of the photoelastic response of silicate glasses. <i>Optical Materials</i> , 2013 , 35, 2435-2439	3.9	12

104	Statistics of modifier distributions in mixed network glasses. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A522	3.9	36
103	Liquidus surface of MgO-CaO-Al ₂ O ₃ -SiO ₂ glass-forming systems. <i>Journal of Non-Crystalline Solids</i> , 2013 , 363, 39-45	3.9	16
102	Topology of alkali phosphate glass networks. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 57-62	3.9	31
101	Are the dynamics of a glass embedded in its elastic properties?. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A501	3.9	14
100	Impact of ZnO on the structure and properties of sodium aluminosilicate glasses: Comparison with alkaline earth oxides. <i>Journal of Non-Crystalline Solids</i> , 2013 , 381, 58-64	3.9	23
99	Mutual diffusivity, network dilation, and salt bath poisoning effects in ion-exchanged glass. <i>Journal of Non-Crystalline Solids</i> , 2013 , 363, 199-204	3.9	31
98	Mixed alkaline earth effect in sodium aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013 , 369, 61-68	3.9	62
97	Elastic and micromechanical properties of isostatically compressed soda-lime borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013 , 364, 44-52	3.9	50
96	Ultra-Smooth and Ultra-Strong Ion-Exchanged Glass as Substrates for Organic Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 3233-3238	15.6	31
95	Microscopic Origins of Compositional Trends in Aluminosilicate Glass Properties. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1436-1443	3.8	29
94	Dynamics of glass relaxation at room temperature. <i>Physical Review Letters</i> , 2013 , 110, 265901	7.4	111
93	Glass: The Nanotechnology Connection. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 64-75	1.8	47
92	Liquidus Temperature of SrO-Al ₂ O ₃ -SiO ₂ Glass-Forming Compositions. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 225-230	1.8	6
91	Topological Model for the Viscosity of Multicomponent Glass-Forming Liquids. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 408-413	1.8	42
90	Minimalist landscape model of glass relaxation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 3446-3459	3.3	17
89	Influence of aluminum speciation on the stability of aluminosilicate glasses against crystallization. <i>Applied Physics Letters</i> , 2012 , 101, 041906	3.4	28
88	Atomistic understanding of the network dilation anomaly in ion-exchanged glass. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 316-320	3.9	62
87	Glass-forming ability of soda lime borate liquids. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 658-665	3.9	19

86	Relationship between viscous dynamics and the configurational thermal expansion coefficient of glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 648-651	3.9	4
85	Composition-structure-property relationships in boroaluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 993-1002	3.9	76
84	Sodium tracer diffusion in sodium boroaluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1430-1437	3.9	9
83	Structural relaxation in annealed hyperquenched basaltic glasses: Insights from calorimetry. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1356-1361	3.9	12
82	Elasticity of ion stuffing in chemically strengthened glass. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1569-1574	3.9	44
81	On the frequency correction in temperature-modulated differential scanning calorimetry of the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1710-1715	3.9	16
80	Achieving long time scale simulations of glass-forming systems. <i>Computational and Theoretical Chemistry</i> , 2012 , 987, 122-133	2	9
79	Distinguishability of particles in glass-forming systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 5392-5403	3.3	11
78	Unified physics of stretched exponential relaxation and Weibull fracture statistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 6121-6127	3.3	38
77	Photoelastic response of alkaline earth aluminosilicate glasses. <i>Optics Letters</i> , 2012 , 37, 293-5	3	20
76	Elastic interpretation of the glass transition in aluminosilicate liquids. <i>Physical Review B</i> , 2012 , 85,	3.3	27
75	An upper limit to kinetic fragility in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2011 , 134, 044522	3.9	26
74	Defect-mediated self-diffusion in calcium aluminosilicate glasses: A molecular modeling study. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1780-1786	3.9	43
73	Unified approach for determining the enthalpic fictive temperature of glasses with arbitrary thermal history. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3230-3236	3.9	46
72	Effect of fragility on relaxation of density fluctuations in glass. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3520-3523	3.9	22
71	Sodium diffusion in boroaluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3744-3750	3.9	43
70	Breakdown of the fractional Stokes-Einstein relation in silicate liquids. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3924-3927	3.9	11
69	Through a Glass, Darkly: Dispelling Three Common Misconceptions in Glass Science. <i>International Journal of Applied Glass Science</i> , 2011 , 2, 245-261	1.8	28

68	Topological origin of stretched exponential relaxation in glass. <i>Journal of Chemical Physics</i> , 2011 , 135, 214502	3.9	83
67	Towards ultrastrong glasses. <i>Advanced Materials</i> , 2011 , 23, 4578-86	24	251
66	Topological principles of borosilicate glass chemistry. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12930-464	3.4	234
65	Universality of the high-temperature viscosity limit of silicate liquids. <i>Physical Review B</i> , 2011 , 83,	3.3	67
64	Response to Comment on Heat capacity, enthalpy fluctuations, and configurational entropy in broken ergodic systems[J. Chem. Phys. 134, 147101 (2011)]. <i>Journal of Chemical Physics</i> , 2011 , 134, 147102	3.9	8
63	Computing the viscosity of supercooled liquids: Markov Network model. <i>PLoS ONE</i> , 2011 , 6, e17909	3.7	24
62	The Thermodynamic Significance of Order Parameters During Glass Relaxation. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1026-1031	3.8	13
61	Enhanced stimulated Brillouin scattering threshold through phase control of multitone phase modulation. <i>Optical Engineering</i> , 2010 , 49, 100501	1.1	3
60	Impact of network topology on cationic diffusion and hardness of borate glass surfaces. <i>Journal of Chemical Physics</i> , 2010 , 133, 154509	3.9	37
59	Prediction of glass hardness using temperature-dependent constraint theory. <i>Physical Review Letters</i> , 2010 , 105, 115503	7.4	195
58	Heat capacity, enthalpy fluctuations, and configurational entropy in broken ergodic systems. <i>Journal of Chemical Physics</i> , 2010 , 133, 164503	3.9	52
57	Quantitative Design of Glassy Materials Using Temperature-Dependent Constraint Theory. <i>Chemistry of Materials</i> , 2010 , 22, 5358-5365	9.6	139
56	Origin of dynamical heterogeneities in calcium aluminosilicate liquids. <i>Journal of Chemical Physics</i> , 2010 , 132, 194501	3.9	45
55	Communication: Resolving the vibrational and configurational contributions to thermal expansion in isobaric glass-forming systems. <i>Journal of Chemical Physics</i> , 2010 , 133, 091102	3.9	37
54	Fragile-to-strong transition in metallic glass-forming liquids. <i>Journal of Chemical Physics</i> , 2010 , 133, 014508	3.9	112
53	Nonmonotonic evolution of density fluctuations during glass relaxation. <i>Physical Review Letters</i> , 2009 , 102, 155506	7.4	49
52	Composition dependence of glass transition temperature and fragility. II. A topological model of alkali borate liquids. <i>Journal of Chemical Physics</i> , 2009 , 130, 234503	3.9	184
51	Fictive Temperature and the Glassy State. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 75-86	3.8	83

50	Advancing glasses through fundamental research. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1227-1234	6	41
49	Ionic diffusion and the topological origin of fragility in silicate glasses. <i>Journal of Chemical Physics</i> , 2009 , 131, 244514	3.9	36
48	Non-equilibrium entropy of glasses formed by continuous cooling. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 600-606	3.9	13
47	The configurational entropy of glass. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 595-599	3.9	32
46	Forbidden glasses and the failure of fictive temperature. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 676-680	3.9	32
45	Computing the viscosity of supercooled liquids. <i>Journal of Chemical Physics</i> , 2009 , 130, 224504	3.9	113
44	Composition dependence of glass transition temperature and fragility. I. A topological model incorporating temperature-dependent constraints. <i>Journal of Chemical Physics</i> , 2009 , 130, 094503	3.9	252
43	Nonequilibrium viscosity of glass. <i>Physical Review B</i> , 2009 , 80,	3.3	124
42	Computing the viscosity of supercooled liquids. II. Silica and strong-fragile crossover behavior. <i>Journal of Chemical Physics</i> , 2009 , 131, 164505	3.9	41
41	Viscosity of glass-forming liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19780-4	11.5	618
40	Impact of fragility on enthalpy relaxation in glass. <i>Physical Review E</i> , 2008 , 78, 021502	2.4	51
39	Comment on: "On the reality of residual entropies of glasses and disordered crystals" [J. Chem. Phys. 128, 154510 (2008)]. <i>Journal of Chemical Physics</i> , 2008 , 129, 067101; discussion 067102	3.9	18
38	Two factors governing fragility: stretching exponent and configurational entropy. <i>Physical Review E</i> , 2008 , 78, 062501	2.4	26
37	Enthalpy landscapes and the glass transition. <i>Scientific Modeling and Simulation SMNS</i> , 2008 , 15, 241-281		39
36	Advanced modulation formats for fiber optic communication systems. <i>Scientific Modeling and Simulation SMNS</i> , 2008 , 15, 283-312		3
35	Advanced modulation formats for fiber optic communication systems. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 283-312	0.3	1
34	Enthalpy landscapes and the glass transition. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 241-281	0.3	2
33	Metabasin approach for computing the master equation dynamics of systems with broken ergodicity. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7957-65	2.8	60

32	Selenium glass transition: A model based on the enthalpy landscape approach and nonequilibrium statistical mechanics. <i>Physical Review B</i> , 2007 , 76,	3.3	60
31	Continuously broken ergodicity. <i>Journal of Chemical Physics</i> , 2007 , 126, 184511	3.9	102
30	Modeling of Rigidity Percolation and Incipient Plasticity in GermaniumSelenium Glasses. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 192-198	3.8	54
29	Semi-Empirical Technique for Computation of Glass Density. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070924065850001-???	3.8	
28	Monte Carlo method for computing density of states and quench probability of potential energy and enthalpy landscapes. <i>Journal of Chemical Physics</i> , 2007 , 126, 194103	3.9	35
27	Mapping the potential energy landscapes of selenium clusters. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1268-1273	3.9	10
26	Multiscale modeling of arsenic selenide glass. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1226-1231	3.9	42
25	Ab initio modeling of volumeTemperature curves for glassforming systems. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1274-1278	3.9	9
24	The laboratory glass transition. <i>Journal of Chemical Physics</i> , 2007 , 126, 224504	3.9	86
23	Potential energy landscapes of elemental and heterogeneous chalcogen clusters. <i>Physical Review A</i> , 2006 , 73,	2.6	11
22	Resonant waveguide grating biosensor for living cell sensing. <i>Biophysical Journal</i> , 2006 , 91, 1925-40	2.9	318
21	Split-step eigenvector-following technique for exploring enthalpy landscapes at absolute zero. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5005-11	3.4	33
20	A Nonequilibrium Statistical Mechanical Model of Structural Relaxation in Glass. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1091-1094	3.8	57
19	Multiscale Modeling of GeSe ₂ Glass Structure. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060427083300079-???	3.8	57
18	Monte Carlo simulation of Se ₆ Te ₁₀ glass structure with ab initio potentials. <i>Physical Review B</i> , 2005 , 72,	3.3	20
17	A simplified eigenvector-following technique for locating transition points in an energy landscape. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 9578-83	2.8	36
16	Functional GPCR microarrays. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15350-1	16.4	34
15	Model interaction potentials for selenium from ab initio molecular simulations. <i>Physical Review B</i> , 2005 , 71,	3.3	34

14	Modeling of selenium telluride glass. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, R46-R48	1.3	8
13	Impact of Modulation Format and Filtering on the Calculation of Amplified Spontaneous Emission Noise Penalty. <i>Journal of Optical Communications</i> , 2004 , 25,	1.2	2
12	Macroscopic model of phospholipid vesicle spreading and rupture. <i>Langmuir</i> , 2004 , 20, 5724-31	4	10
11	Value analysis of Raman amplification in 40-Gbit/s optical networks using dispersion-managed fiber. <i>Journal of Optical Networking</i> , 2004 , 4, 38		
10	Intrachannel nonlinear penalties in dispersion-managed transmission systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002 , 8, 626-631	3.8	43
9	Fiber design considerations for 40 Gb/s systems. <i>Journal of Lightwave Technology</i> , 2002 , 20, 2290-2305	4	15
8	Impact of parametric mixing of ASE and signal on high-power festoon systems with random dispersion variation. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 212-214	2.2	2
7	Indentation and abrasion in glass products: Lessons learned and yet to be learned. <i>International Journal of Applied Glass Science</i> ,	1.8	1
6	Effect of pressurization on the fracture toughness of borosilicate glasses. <i>Journal of the American Ceramic Society</i> ,	3.8	1
5	AB Initio Modeling of Glasses in the Sulfur-Selenium System. <i>Ceramic Transactions</i> ,149-163	0.1	
4	Microstructural evolution of droplet phase separation in calcium aluminosilicate glasses. <i>Journal of the American Ceramic Society</i> ,	3.8	1
3	Viscosity of silica and doped silica melts: evidence for a crossover temperature. <i>Journal of the American Ceramic Society</i> ,	3.8	1
2	Modeling the relaxation and crystallization kinetics of glass without fictive temperature: Toy landscape approach. <i>Journal of the American Ceramic Society</i> ,	3.8	1
1	Advanced tools for unveiling nucleation in nanostructured glass-ceramics. <i>Critical Reviews in Solid State and Materials Sciences</i> ,1-29	10.1	0