

# Lars R Jensen

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,383  
citations

361296

20  
h-index

330025

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlating structure with mechanical properties in lithium borophosphate glasses. International Journal of Applied Glass Science, 2023, 14, 38-51.	1.0	2
2	Indentation deformation and cracking behavior of hydrated aluminoborate glasses. Journal of the American Ceramic Society, 2022, 105, 1039-1051.	1.9	0
3	Resolving the Conflict between Strength and Toughness in Bioactive Silica-Polymer Hybrid Materials. ACS Nano, 2022, 16, 9748-9761.	7.3	7
4	Fracture energy of high-Poisson's ratio oxide glasses. Journal of Applied Physics, 2022, 131, 245105.	1.1	3
5	Bond Switching in Densified Oxide Glass Enables Record-High Fracture Toughness. ACS Applied Materials & Interfaces, 2021, 13, 17753-17765.	4.0	31
6	Mechanical properties of hydrated cesium-lithium aluminoborate glasses. Physical Review Materials, 2021, 5, .	0.9	3
7	Flexible inorganic-organic hybrids with dual inorganic components. Materials Today Chemistry, 2021, 22, 100584.	1.7	5
8	Competitive effects of free volume, rigidity, and self-adaptivity on indentation response of silicoaluminoborate glasses. Journal of the American Ceramic Society, 2020, 103, 944-954.	1.9	15
9	Heat conduction in oxide glasses: Balancing diffusons and propagons by network rigidity. Applied Physics Letters, 2020, 117, .	1.5	9
10	Optimized assembling of MOF/SnO2/Graphene leads to superior anode for lithium ion batteries. Nano Energy, 2020, 74, 104868.	8.2	116
11	On the relation between fracture toughness and crack resistance in oxide glasses. Journal of Non-Crystalline Solids, 2020, 534, 119946.	1.5	37
12	Fracture toughness of a metal-organic framework glass. Nature Communications, 2020, 11, 2593.	5.8	76
13	Achieving ultrahigh crack resistance in glass through humid aging. Physical Review Materials, 2020, 4, .	0.9	9
14	Breaking the Limit of Micro-Ductility in Oxide Glasses. Advanced Science, 2019, 6, 1901281.	5.6	38
15	Structural stability of NaPON glass upon heating in air and nitrogen. Journal of Non-Crystalline Solids, 2018, 482, 137-146.	1.5	6
16	Deformation and cracking behavior of La2O3-doped oxide glasses with high Poisson's ratio. Journal of Non-Crystalline Solids, 2018, 494, 86-93.	1.5	9
17	Monitoring self-sensing damage of multiple carbon fiber composites using piezoresistivity. Synthetic Metals, 2017, 224, 56-62.	2.1	22
18	Fragility and configurational heat capacity of calcium aluminosilicate glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 461, 24-34.	1.5	35

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19	Mixed alkali silicophosphate oxynitride glasses: Structure-property relations. Journal of Non-Crystalline Solids, 2017, 462, 51-64.	1.5	15
20	Pressure-driven structural depolymerization of zinc phosphate glass. Journal of Non-Crystalline Solids, 2017, 469, 31-38.	1.5	12
21	Discovery of Ultra-Crack-Resistant Oxide Glasses with Adaptive Networks. Chemistry of Materials, 2017, 29, 5865-5876.	3.2	113
22	Mutual-stabilization in chemically bonded graphene oxide-TiO <sub>2</sub> heterostructures synthesized by a sol-gel approach. RSC Advances, 2017, 7, 41217-41227.	1.7	26
23	Network Glasses Under Pressure: Permanent Densification in Modifier-Free $\text{Al}_2\text{O}_3\text{-B}_2\text{O}_3$ Glasses. Physical Review Applied, 2017, 7, .	1.5	39
24	Impact of nitridation of metaphosphate glasses on liquid fragility. Journal of Non-Crystalline Solids, 2016, 441, 22-28.	1.5	26
25	A medium range order structural connection to the configurational heat capacity of borate-silicate mixed glasses. Physical Chemistry Chemical Physics, 2016, 18, 10887-10895.	1.3	19
26	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
27	Pressure-induced structural transformations in phosphorus oxynitride glasses. Journal of Non-Crystalline Solids, 2016, 452, 153-160.	1.5	7
28	Strain sensing in single carbon fiber epoxy composites by simultaneous in-situ Raman and piezoresistance measurements. Carbon, 2016, 109, 124-130.	5.4	36
29	Dispersion and functionalization of single-walled carbon nanotubes (SWCNTs) for nanocomposite applications. Materiaux Et Techniques, 2016, 104, 607.	0.3	2
30	Structure-property relations in calcium aluminate glasses containing different divalent cations and SiO <sub>2</sub> . Journal of Non-Crystalline Solids, 2015, 427, 160-165.	1.5	24
31	Temperature-dependent densification of sodium borosilicate glass. RSC Advances, 2015, 5, 78845-78851.	1.7	23
32	Evaluation of the anisotropic mechanical properties of reinforced polyurethane foams. Composites Science and Technology, 2013, 87, 210-217.	3.8	77
33	Processing and characterization of polyurethane nanocomposite foam reinforced with montmorillonite-carbon nanotube hybrids. Composites Part A: Applied Science and Manufacturing, 2013, 44, 1-7.	3.8	105
34	Foaming of Microcellular PP-MWCNT Nanocomposite in a Sub-Critical CO <sub>2</sub> Process. Frontiers in Forests and Global Change, 2013, 32, 1-20.	0.6	9
35	Fabrication of Microcellular PP-MMT Nanocomposite Foams in a Sub-Critical CO <sub>2</sub> Process. Frontiers in Forests and Global Change, 2012, 31, 125-144.	0.6	7
36	Synthesis and Characterization of Montmorillonite-Carbon Nanotubes Hybrid Fillers for Nanocomposites. Polymers and Polymer Composites, 2012, 20, 693-700.	1.0	5

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37	Synthesis of clay-carbon nanotube hybrids: Growth of carbon nanotubes in different types of iron modified montmorillonite. <i>Composites Science and Technology</i> , 2012, 72, 377-381.	3.8	23
38	Structural and Optical Characterization of ZnO Nanowires Grown on Alumina by Thermal Evaporation Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2669-2673.	0.9	6
39	Microscopic mechanism of reinforcement in single-wall carbon nanotube/polypropylene nanocomposite. <i>Polymer</i> , 2005, 46, 439-444.	1.8	189