Lars R Jensen

List of Publications by Year
in descending order

39 papers	1,383 citations	361045 20 h-index	329751 37 g-index
40 all docs	40 docs citations	40 times ranked	1536 citing authors

#	Article	IF	Citations
1	Microscopic mechanism of reinforcement in single-wall carbon nanotube/polypropylene nanocomposite. Polymer, 2005, 46, 439-444.	1.8	189
2	Optimized assembling of MOF/SnO2/Graphene leads to superior anode for lithium ion batteries. Nano Energy, 2020, 74, 104868.	8.2	116
3	Discovery of Ultra-Crack-Resistant Oxide Glasses with Adaptive Networks. Chemistry of Materials, 2017, 29, 5865-5876.	3.2	113
4	Processing and characterization of polyurethane nanocomposite foam reinforced with montmorilloniteâ€“carbon nanotube hybrids. Composites Part A: Applied Science and Manufacturing, 2013, 44, 1-7.	3.8	105
5	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
6	Evaluation of the anisotropic mechanical properties of reinforced polyurethane foams. Composites Science and Technology, 2013, 87, 210-217.	3.8	77
7	Fracture toughness of a metalâ€“organic framework glass. Nature Communications, 2020, 11, 2593.	5.8	76
8	Breaking the Limit of Microâ€Ductility in Oxide Glasses. Advanced Science, 2019, 6, 1901281.	5.6	38
9	On the relation between fracture toughness and crack resistance in oxide glasses. Journal of Non-Crystalline Solids, 2020, 534, 119946.	1.5	37
10	Strain sensing in single carbon fiber epoxy composites by simultaneous in-situ Raman and piezoresistance measurements. Carbon, 2016, 109, 124-130.	5.4	36
11	Fragility and configurational heat capacity of calcium aluminosilicate glass-forming liquids. Journal of Non-Crystalline Solids, 2017, 461, 24-34.	1.5	35
12	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></mm mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mtext>â^’</mm mathvariant="normal">B</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><. Physical Review Applied, 2017, 7, .	1.5	33
13	Bond Switching in Densified Oxide Glass Enables Record-High Fracture Toughness. ACS Applied Materials & Interfaces, 2021, 13, 17753-17765.	4.0	31
14	Impact of nitridation of metaphosphate glasses on liquid fragility. Journal of Non-Crystalline Solids, 2016, 441, 22-28.	1.5	26
15	Mutual-stabilization in chemically bonded graphene oxideâ€“TiO₂ heterostructures synthesized by a solâ€“gel approach. RSC Advances, 2017, 7, 41217-41227.	1.7	26
16	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
17	Synthesis of clayâ€“carbon nanotube hybrids: Growth of carbon nanotubes in different types of iron modified montmorillonite. Composites Science and Technology, 2012, 72, 377-381.	3.8	23
18	Temperature-dependent densification of sodium borosilicate glass. RSC Advances, 2015, 5, 78845-78851.	1.7	23

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19	Monitoring self-sensing damage of multiple carbon fiber composites using piezoresistivity. Synthetic Metals, 2017, 224, 56-62.	2.1	22
20	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
21	Mixed alkali silicophosphate oxynitride glasses: Structure-property relations. Journal of Non-Crystalline Solids, 2017, 462, 51-64.	1.5	15
22	Competitive effects of free volume, rigidity, and selfâ€adaptivity on indentation response of silicoaluminoborate glasses. Journal of the American Ceramic Society, 2020, 103, 944-954.	1.9	15
23	Pressure-driven structural depolymerization of zinc phosphate glass. Journal of Non-Crystalline Solids, 2017, 469, 31-38.	1.5	12
24	Foaming of Microcellular PP-MWCNT Nanocomposite in a Sub-Critical CO₂ Process. Frontiers in Forests and Global Change, 2013, 32, 1-20.	0.6	9
25	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
26	Heat conduction in oxide glasses: Balancing diffusons and propagons by network rigidity. Applied Physics Letters, 2020, 117, .	1.5	9
27	Achieving ultrahigh crack resistance in glass through humid aging. Physical Review Materials, 2020, 4, .	0.9	9
28	Fabrication of Microcellular PP-MMT Nanocomposite Foams in a Sub-Critical CO₂ Process. Frontiers in Forests and Global Change, 2012, 31, 125-144.	0.6	7
29	Pressure-induced structural transformations in phosphorus oxynitride glasses. Journal of Non-Crystalline Solids, 2016, 452, 153-160.	1.5	7
30	Resolving the Conflict between Strength and Toughness in Bioactive Silicaâ€“Polymer Hybrid Materials. ACS Nano, 2022, 16, 9748-9761.	7.3	7
31	Structural and Optical Characterization of ZnO Nanowires Grown on Alumina by Thermal Evaporation Method. Journal of Nanoscience and Nanotechnology, 2010, 10, 2669-2673.	0.9	6
32	Structural stability of NaPON glass upon heating in air and nitrogen. Journal of Non-Crystalline Solids, 2018, 482, 137-146.	1.5	6
33	Synthesis and Characterization of Montmorillonite-Carbon Nanotubes Hybrid Fillers for Nanocomposites. Polymers and Polymer Composites, 2012, 20, 693-700.	1.0	5
34	Flexible inorganicâ€“organic hybrids with dual inorganic components. Materials Today Chemistry, 2021, 22, 100584.	1.7	5
35	Mechanical properties of hydrated cesium-lithium aluminoborate glasses. Physical Review Materials, 2021, 5, .	0.9	3
36	Fracture energy of high-Poisson's ratio oxide glasses. Journal of Applied Physics, 2022, 131, 245105.	1.1	3

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37	Dispersion and functionalization of single-walled carbon nanotubes (SWCNTS) for nanocomposite applications. Materiaux Et Techniques, 2016, 104, 607.	0.3	2
38	Correlating structure with mechanical properties in lithium borophosphate glasses. International Journal of Applied Glass Science, 2023, 14, 38-51.	1.0	2
39	Indentation deformation and cracking behavior of hydrated aluminoborate glasses. Journal of the American Ceramic Society, 2022, 105, 1039-1051.	1.9	0