

Steven A Feller

List of Publications by Year in descending order

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32
papers

709
citations

687363

13
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526287

27
g-index

34
all docs

34
docs citations

34
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	The density of lithium borate glasses related to atomic arrangements. Journal of Non-Crystalline Solids, 1986, 85, 29-41.	3.1	88
2	Terminal Oxygens in Amorphous TeO ₂ . Journal of Physical Chemistry Letters, 2013, 4, 2312-2316.	4.6	88
3	Physical properties of alkaline-earth and alkali borate glasses prepared over an extended range of compositions. Journal of Non-Crystalline Solids, 2001, 293-295, 669-675.	3.1	84
4	Physical properties of barium borate glasses determined over a wide range of compositions. Journal of Non-Crystalline Solids, 2000, 270, 215-222.	3.1	51
5	The density of sodium borosilicate glasses related to atomic arrangements. Journal of Non-Crystalline Solids, 1990, 119, 103-111.	3.1	40
6	A study of selected physical properties of alkali germanate glasses over wide ranges of composition. Journal of Non-Crystalline Solids, 2000, 272, 57-66.	3.1	38
7	²⁹ Si MAS-NMR Study of the Short-Range Order in Lithium Borosilicate Glasses. Journal of the American Ceramic Society, 1992, 75, 1117-1122.	3.8	35
8	Topological Origins of the Mixed Alkali Effect in Glass. Journal of Physical Chemistry B, 2019, 123, 7482-7489.	2.6	31
9	Structure of TeO ₂ glass: Results from 2D ¹²⁵ Te NMR spectroscopy. Journal of Non-Crystalline Solids, 2019, 513, 183-190.	3.1	29
10	Critical Analysis of Glass Stability Parameters and Application to Lithium Borate Glasses. Journal of the American Ceramic Society, 2011, 94, 3833-3841.	3.8	26
11	The Germanate Anomaly in Alkaline Earth Germanate Glasses. Journal of Physical Chemistry C, 2017, 121, 9462-9479.	3.1	26
12	A general study of packing in oxide glass systems containing alkali. Journal of Non-Crystalline Solids, 2004, 347, 87-92.	3.1	25
13	²⁹ Si MAS-NMR Study of the Short-Range Order in Potassium Borosilicate Glasses. Journal of the American Ceramic Society, 1995, 78, 952-960.	3.8	19
14	Hybrid machine learning/physics-based approach for predicting oxide glass-forming ability. Acta Materialia, 2022, 222, 117432.	7.9	18
15	The glass transition temperature of lithium borosilicate glasses related to atomic arrangements. Journal of Non-Crystalline Solids, 1994, 175, 137-144.	3.1	12
16	Thermal, acoustic, and nuclear magnetic resonance studies of cesium borate glasses. Journal of Non-Crystalline Solids, 2001, 293-295, 483-489.	3.1	12
17	Topological model of alkali germanate glasses and exploration of the germanate anomaly. Journal of the American Ceramic Society, 2020, 103, 4224-4233.	3.8	12
18	Nonuniform bulk second-order optical nonlinearity in PbO/B ₂ O ₃ glass. Applied Physics Letters, 2000, 77, 70-72.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Borate Glasses. Springer Handbooks, 2019, , 505-524.	0.6	9
20	Effect of network formers and modifiers on the crystallization resistance of oxide glasses. Journal of Non-Crystalline Solids, 2020, 550, 120359.	3.1	8
21	Physical properties of alkali and mixed lithium–cesium vanadate glasses prepared over an extended range of compositions. Journal of Non-Crystalline Solids, 2001, 293-295, 663-668.	3.1	7
22	Packing as a probe of structure in alkaline earth glass systems. Journal of Non-Crystalline Solids, 2008, 354, 3491-3502.	3.1	6
23	Tunable glass reference materials for quantitative backscattered electron imaging of mineralized tissues. Journal of Materials Research, 2012, 27, 2568-2577.	2.6	6
24	MAS-NMR studies of carbonate retention in a very wide range of Na ₂ O-SiO ₂ glasses. Journal of Non-Crystalline Solids, 2020, 534, 119958.	3.1	6
25	Mechanisms of laser induced modification of lead and barium vanadate glasses. Journal of Applied Physics, 2011, 109, 013521.	2.5	5
26	Topological constraint model of high lithium content borate glasses. Journal of Non-Crystalline Solids: X, 2019, 3, 100028.	1.2	5
27	Lead silicate glass structure: New insights from diffraction and modeling of probable lone pair locations. Journal of the American Ceramic Society, 2022, 105, 938-957.	3.8	5
28	How good are the common approximations used in physics?. American Journal of Physics, 1982, 50, 682-683.	0.7	3
29	Structural origin of the weak germanate anomaly in lead germanate glass properties. Journal of the American Ceramic Society, 2022, 105, 1010-1030.	3.8	2
30	Analysis of Physical and Structural Properties of Alkali Oxide–Modified Tellurite Glasses. Journal of Undergraduate Reports in Physics, 2020, 30, 100003.	0.1	1
31	Digital electronics for everyone. Physics Teacher, 1982, 20, 466-469.	0.3	0
32	A New <i>Glassy</i> State of Matter: The Color Glass Condensate. International Journal of Applied Glass Science, 2013, 4, 1-4.	2.0	0