

Russell J Hand

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10478827/publications.pdf>

Version: 2024-02-01

23
papers

379
citations

933447

10
h-index

794594

19
g-index

25
all docs

25
docs citations

25
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of silicate glasses as a function of composition. Journal of Non-Crystalline Solids, 2010, 356, 2417-2423.	3.1	81
2	Surface hydration and nanoindentation of silicate glasses. Journal of Non-Crystalline Solids, 2010, 356, 102-108.	3.1	47
3	Effect of Zn- and Ca-oxides on the structure and chemical durability of simulant alkali borosilicate glasses for immobilisation of UK high level wastes. Journal of Nuclear Materials, 2015, 462, 321-328.	2.7	45
4	Mechanical properties of soda-“lime” silica glasses with varying alkaline earth contents. Journal of Non-Crystalline Solids, 2015, 429, 190-197.	3.1	40
5	MoO ₃ incorporation in magnesium aluminosilicate glasses. Journal of Nuclear Materials, 2015, 458, 335-342.	2.7	23
6	Calibrating a nanoindenter for very shallow depth indentation using equivalent contact radius. Philosophical Magazine, 2010, 90, 1819-1832.	1.6	15
7	Comparison of glass hydration layer thickness measured by transmission electron microscopy and nanoindentation. Materials Letters, 2010, 64, 1041-1044.	2.6	14
8	Inter-relationships between composition and near surface mechanical properties of silicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 5108-5109.	3.1	12
9	Short communication: The dissolution of UK simulant vitrified high-level-waste in groundwater solutions. Journal of Nuclear Materials, 2020, 538, 152245.	2.7	11
10	Three-Dimensional Structure of CeO ₂ Nanodendrites in Glass. Crystal Growth and Design, 2008, 8, 1102-1105.	3.0	10
11	Immobilisation of Prototype Fast Reactor raffinate in a barium borosilicate glass matrix. Journal of Nuclear Materials, 2018, 508, 203-211.	2.7	10
12	Incorporation and phase separation of Cl in alkaline earth aluminosilicate glasses. Journal of Nuclear Materials, 2018, 507, 135-144.	2.7	10
13	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: Insight into Stage III behavior. MRS Advances, 2020, 5, 103-109.	0.9	10
14	CeO ₂ nano-precipitation in borosilicate glasses: A redox study using EELS. Journal of the European Ceramic Society, 2010, 30, 831-838.	5.7	8
15	Structural and thermophysical behaviour of barium zinc aluminoborosilicate glasses for potential application in SOFCs. Journal of Non-Crystalline Solids, 2021, 572, 121082.	3.1	7
16	Nano-indentation and surface hydration of silicate glasses. Journal of the Ceramic Society of Japan, 2008, 116, 846-850.	1.1	6
17	Glass structure and crystallization in boro-alumino-silicate glasses containing rare earth and transition metal cations: a US-UK collaborative program. MRS Advances, 2019, 4, 1029-1043.	0.9	6
18	Effects of composition and phase relations on mechanical properties and crystallization of silicate glasses. Journal of the American Ceramic Society, 2021, 104, 3921-3946.	3.8	6

#	ARTICLE	IF	CITATIONS
19	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: the effect of increased waste loading. MRS Advances, 2021, 6, 95-102.	0.9	5
20	Thermal treatment of nuclear fuel-containing Magnox sludge radioactive waste. Journal of Nuclear Materials, 2021, 552, 152965.	2.7	5
21	Chemical structure and dissolution behaviour of CaO and ZnO containing alkali-borosilicate glass. Materials Advances, 2022, 3, 1747-1758.	5.4	3
22	Comment on "Preliminary assessment of modified borosilicate glasses for chromium and ruthenium immobilization", by Farid and Rahman. Materials Chemistry and Physics, 2017, 192, 29-32.	4.0	0
23	Soda-Lime-Silica Glasses. , 2021, , 483-495.		0