

Russell J Hand

List of Publications by Year in descending order

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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	Chemical structure and dissolution behaviour of CaO and ZnO containing alkali-borosilicate glass. <i>Materials Advances</i> , 2022, 3, 1747-1758.	5.4	3
2	Soda-Lime-Silica Glasses. , 2021, , 483-495.		0
3	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: the effect of increased waste loading. <i>MRS Advances</i> , 2021, 6, 95-102.	0.9	5
4	Effects of composition and phase relations on mechanical properties and crystallization of silicate glasses. <i>Journal of the American Ceramic Society</i> , 2021, 104, 3921-3946.	3.8	6
5	Thermal treatment of nuclear fuel-containing Magnox sludge radioactive waste. <i>Journal of Nuclear Materials</i> , 2021, 552, 152965.	2.7	5
6	Structural and thermophysical behaviour of barium zinc aluminoborosilicate glasses for potential application in SOFCs. <i>Journal of Non-Crystalline Solids</i> , 2021, 572, 121082.	3.1	7
7	Short communication: The dissolution of UK simulant vitrified high-level-waste in groundwater solutions. <i>Journal of Nuclear Materials</i> , 2020, 538, 152245.	2.7	11
8	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: Insight into Stage III behavior. <i>MRS Advances</i> , 2020, 5, 103-109.	0.9	10
9	Glass structure and crystallization in boro-alumino-silicate glasses containing rare earth and transition metal cations: a US-UK collaborative program. <i>MRS Advances</i> , 2019, 4, 1029-1043.	0.9	6
10	Immobilisation of Prototype Fast Reactor raffinate in a barium borosilicate glass matrix. <i>Journal of Nuclear Materials</i> , 2018, 508, 203-211.	2.7	10
11	Incorporation and phase separation of Cl in alkaline earth aluminosilicate glasses. <i>Journal of Nuclear Materials</i> , 2018, 507, 135-144.	2.7	10
12	Comment on "Preliminary assessment of modified borosilicate glasses for chromium and ruthenium immobilization", by Farid and Rahman. <i>Materials Chemistry and Physics</i> , 2017, 192, 29-32.	4.0	0
13	MoO ₃ incorporation in magnesium aluminosilicate glasses. <i>Journal of Nuclear Materials</i> , 2015, 458, 335-342.	2.7	23
14	Effect of Zn- and Ca-oxides on the structure and chemical durability of simulant alkali borosilicate glasses for immobilisation of UK high level wastes. <i>Journal of Nuclear Materials</i> , 2015, 462, 321-328.	2.7	45
15	Mechanical properties of soda-lime-silica glasses with varying alkaline earth contents. <i>Journal of Non-Crystalline Solids</i> , 2015, 429, 190-197.	3.1	40
16	Comparison of glass hydration layer thickness measured by transmission electron microscopy and nanoindentation. <i>Materials Letters</i> , 2010, 64, 1041-1044.	2.6	14
17	CeO ₂ nano-precipitation in borosilicate glasses: A redox study using EELS. <i>Journal of the European Ceramic Society</i> , 2010, 30, 831-838.	5.7	8
18	Calibrating a nanoindenter for very shallow depth indentation using equivalent contact radius. <i>Philosophical Magazine</i> , 2010, 90, 1819-1832.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Surface hydration and nanoindentation of silicate glasses. Journal of Non-Crystalline Solids, 2010, 356, 102-108.	3.1	47
20	Mechanical properties of silicate glasses as a function of composition. Journal of Non-Crystalline Solids, 2010, 356, 2417-2423.	3.1	81
21	Inter-relationships between composition and near surface mechanical properties of silicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 5108-5109.	3.1	12
22	Three-Dimensional Structure of CeO ₂ Nanodendrites in Glass. Crystal Growth and Design, 2008, 8, 1102-1105.	3.0	10
23	Nano-indentation and surface hydration of silicate glasses. Journal of the Ceramic Society of Japan, 2008, 116, 846-850.	1.1	6