Frederic Bouyer

List of Publications by Year
in descending order

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24	571	840585	677027
papers	citations	11	22
		h-index	g-index

26	26	26	516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactive transport modeling of glass alteration in a fractured vitrified nuclear glass canister: From upscaling to experimental validation. Journal of Nuclear Materials, 2020, 528, 151869.	1.3	5
2	An inverse method predicting thermal fluxes in nuclear waste glass canisters during vitrification and cooling. Nuclear Engineering and Design, 2020, 364, 110686.	0.8	6
3	Coupling image analysis and thermo-mechanical simulation results to produce a model of the fracture network in a nuclear glass canister. Journal of Nuclear Materials, 2019, 522, 265-285.	1.3	4
4	Brittle creep and subcritical crack propagation in glass submitted to triaxial conditions. Journal of Geophysical Research: Solid Earth, 2015, 120, 879-893.	1.4	38
5	Role of the pore fluid in crack propagation in glass. Mechanics of Time-Dependent Materials, 2015, 19, 117-133.	2.3	11
6	Experimental and numerical study of crack healing in a nuclear glass. Mechanics of Materials, 2015, 80, 145-162.	1.7	22
7	Simulation of Solidification, Relaxation and Long-Term Behavior of a Borosilicate Glass. , 2015, , 511-519.		1
8	Evolution of the crack network in glass samples submitted to brittle creep conditions. International Journal of Fracture, 2014, 190, 111-124.	1.1	23
9	Simulation of cooling and solidification of three-dimensional bulk borosilicate glass: effect of structural relaxations. Mechanics of Time-Dependent Materials, 2014, 18, 81-96.	2.3	11
10	Sub-critical Crack Propagation in Glass in Reservoir Conditions. , 2014, , .		1
11	Effective Elastic Properties of Cracked Solids: An Experimental Investigation. International Journal of Fracture, 2013, 182, 275-282.	1.1	40
12	Modeling and Simulation of the Cooling Process of Borosilicate Glass. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	17
13	Effect of leaching-driven flow on the alteration kinetics of an ideal crack in SON68 glass. Journal of Nuclear Materials, 2012, 426, 160-172.	1.3	10
14	Permeability and elastic properties of cracked glass under pressure. Journal of Geophysical Research, 2011, 116, .	3.3	46
15	Semi-stochastic generator (FraGMA) of 2D fractured media by mechanistic analogy â€“ Application to reactive transport in a fractured package of vitrified nuclear waste. Computational Materials Science, 2011, 50, 1387-1398.	1.4	8
16	Cracks in glass under triaxial conditions. International Journal of Engineering Science, 2011, 49, 105-121.	2.7	61
17	Water solubility in calcium aluminosilicate glasses investigated by first principles techniques. Journal of Solid State Chemistry, 2010, 183, 2786-2796.	1.4	38
18	Endommagement et fissuration du verre en compression triaxiale. Materiaux Et Techniques, 2010, 98, 423-441.	0.3	1

#	Article	IF	Citations
19	Single Idealized Cracks: A Tool for Understanding Fractured Glass Block Leaching. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	1
20	Hydrogenâ€“sodium interdiffusion in borosilicate glasses investigated from first principles. Journal of Non-Crystalline Solids, 2006, 352, 3147-3152.	1.5	91
21	Studies of carbon nucleation phenomena in molten alkaline fluoride media. Electrochimica Acta, 2003, 48, 465-471.	2.6	40
22	Electrodeposition of carbon films from molten alkaline fluoride media. Electrochimica Acta, 2002, 47, 1949-1957.	2.6	84
23	Computational Chemistry:â€‰ A Way To Reach Spectroscopic and Thermodynamic Data for Exotic Compounds. Journal of Chemical Information and Computer Sciences, 1996, 36, 684-693.	2.8	8
24	Density functional calculations for predicting structures and vibrational frequencies of aluminum chloride-fluoride complexes. Computational and Theoretical Chemistry, 1995, 330, 217-222.	1.5	2