

# Pierre Frugier

## List of Publications by Year in descending order

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29  
papers

1,449  
citations

331670

21  
h-index

526287

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

745  
citing authors

#	ARTICLE	IF	CITATIONS
1	14. RTM for Waste Repositories. , 2019, , 419-458.		0
2	RTM for Waste Repositories. Reviews in Mineralogy and Geochemistry, 2019, 85, 419-457.	4.8	21
3	Chemical durability of peraluminous glasses for nuclear waste conditioning. Npj Materials Degradation, 2018, 2, .	5.8	25
4	Structure of International Simple Glass and properties of passivating layer formed in circumneutral pH conditions. Npj Materials Degradation, 2018, 2, .	5.8	91
5	Modeling glass corrosion with GRAAL. Npj Materials Degradation, 2018, 2, .	5.8	23
6	Application of GRAAL model to the resumption of International Simple Glass alteration. Npj Materials Degradation, 2018, 2, .	5.8	13
7	Mechanisms involved in the increase of borosilicate glass alteration by interaction with the Callovian-Oxfordian clayey fraction. Applied Geochemistry, 2018, 98, 206-220.	3.0	5
8	Modeling Resumption of Glass Alteration Due to Zeolites Precipitation. Procedia Earth and Planetary Science, 2017, 17, 340-343.	0.6	10
9	Contribution of zeolite-seeded experiments to the understanding of resumption of glass alteration. Npj Materials Degradation, 2017, 1, .	5.8	47
10	Glass dissolution rate measurement and calculation revisited. Journal of Nuclear Materials, 2016, 476, 140-154.	2.7	69
11	Mineralogy and thermodynamic properties of magnesium phyllosilicates formed during the alteration of a simplified nuclear glass. Journal of Nuclear Materials, 2016, 475, 255-265.	2.7	16
12	Origin and consequences of silicate glass passivation by surface layers. Nature Communications, 2015, 6, 6360.	12.8	219
13	Resumption of Alteration at High Temperature and pH: Rates Measurements and Comparison with Initial Rates. , 2014, 7, 202-208.		34
14	Modeling Interfacial Glass-Water Reactions: Recent Advances and Current Limitations. International Journal of Applied Glass Science, 2014, 5, 421-435.	2.0	34
15	Resumption of nuclear glass alteration: State of the art. Journal of Nuclear Materials, 2014, 448, 348-363.	2.7	124
16	HLW glass dissolution in the presence of magnesium carbonate: Diffusion cell experiment and coupled modeling of diffusion and geochemical interactions. Journal of Nuclear Materials, 2013, 443, 507-521.	2.7	29
17	SON68 Glass Alteration Enhanced by Magnetite. Procedia Earth and Planetary Science, 2013, 7, 300-303.	0.6	16
18	Effect of Zeolite Formation on Borosilicate Glass Dissolution Kinetics. Procedia Earth and Planetary Science, 2013, 7, 264-267.	0.6	23

#	ARTICLE	IF	CITATIONS
19	Dolomite effect on borosilicate glass alteration. <i>Applied Geochemistry</i> , 2013, 33, 237-251.	3.0	32
20	New Insight into the Residual Rate of Borosilicate Glasses: Effect of $\langle S \rangle / \langle V \rangle$ and Glass Composition. <i>International Journal of Applied Glass Science</i> , 2013, 4, 371-382.	2.0	76
21	Vapor hydration of SON68 glass from 90°C to 200°C: A kinetic study and corrosion products investigation. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2894-2905.	3.1	57
22	Long-term modeling of alteration-transport coupling: Application to a fractured Roman glass. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2291-2315.	3.9	69
23	Composition effects on synthetic glass alteration mechanisms: Part 1. Experiments. <i>Chemical Geology</i> , 2010, 279, 106-119.	3.3	54
24	Theoretical consideration on the application of the Aagaard-Helgeson rate law to the dissolution of silicate minerals and glasses. <i>Chemical Geology</i> , 2008, 255, 14-24.	3.3	58
25	Protective properties and dissolution ability of the gel formed during nuclear glass alteration. <i>Journal of Nuclear Materials</i> , 2005, 342, 26-34.	2.7	65
26	The effect of composition on the leaching of three nuclear waste glasses: R7T7, AVM and VRZ. <i>Journal of Nuclear Materials</i> , 2005, 346, 194-207.	2.7	106
27	Compositional Effects on the Long-Term Durability of Nuclear Waste Glasses: A Statistical Approach. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 240.	0.1	27
28	Morphological evolution of alteration layers formed during nuclear glass alteration: new evidence of a gel as a diffusive barrier. <i>Journal of Nuclear Materials</i> , 2004, 326, 9-18.	2.7	84
29	X-ray reflectometry characterization of SON 68 glass alteration films. <i>Journal of Non-Crystalline Solids</i> , 2003, 325, 113-123.	3.1	22