Laurent Tissandier

List of Publications by Year
in descending order

25	778	687363 13	610901 24
papers	citations	h-index	g-index

25	25	25	963
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magma redox and structural controls on iron isotope variations in Earth's mantle and crust. Earth and Planetary Science Letters, 2014, 398, 127-140.	4.4	214
2	Role of gas-melt interaction during chondrule formation. Earth and Planetary Science Letters, 2006, 251, 232-240.	4.4	140
3	Deciphering the conditions of tochilinite and cronstedtite formation in <scp>CM</scp> chondrites from low temperature hydrothermal experiments. Meteoritics and Planetary Science, 2019, 54, 1870-1889.	1.6	61
4	Type C Ca, Al-rich inclusions from Allende: Evidence for multistage formation. Geochimica Et Cosmochimica Acta, 2007, 71, 4342-4364.	3.9	49
5	Synthesis of refractory organic matter in the ionized gas phase of the solar nebula. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7129-7134.	7.1	43
6	Magmatic sulfides in the porphyritic chondrules of EH enstatite chondrites. Geochimica Et Cosmochimica Acta, 2016, 195, 84-99.	3.9	37
7	Oxygen fugacity and melt composition controls on nitrogen solubility in silicate melts. Geochimica Et Cosmochimica Acta, 2020, 284, 120-133.	3.9	28
8	Nitrogen isotopic fractionation during abiotic synthesis of organic solid particles. Earth and Planetary Science Letters, 2014, 393, 2-13.	4.4	26
9	Na2O solubility in CaOâ€“MgOâ€“SiO2 melts. Geochimica Et Cosmochimica Acta, 2011, 75, 608-628.	3.9	25
10	Olivine dissolution in molten silicates: An experimental study with application to chondrule formation. Meteoritics and Planetary Science, 2017, 52, 225-250.	1.6	25
11	Control of alkali-metal oxide activity in molten silicates. Journal of Non-Crystalline Solids, 2008, 354, 5079-5083.	3.1	22
12	Redox and structural controls on tin isotopic fractionations among magmas. Geochimica Et Cosmochimica Acta, 2020, 268, 42-55.	3.9	15
13	Contrasted Liquid Lines of Descent Revealed by Olivine-hosted Melt Inclusions and the External Magma. Journal of Petrology, 2014, 55, 1779-1798.	2.8	14
14	Multidiffusion mechanisms for noble gases (He, Ne, Ar) in silicate glasses and melts in the transition temperature domain: Implications for glass polymerization. Geochimica Et Cosmochimica Acta, 2016, 172, 107-126.	3.9	13
15	Processes of noble gas elemental and isotopic fractionations in plasma-produced organic solids: Cosmochemical implications. Geochimica Et Cosmochimica Acta, 2017, 217, 219-230.	3.9	13
16	High-temperature Ionization-induced Synthesis of Biologically Relevant Molecules in the Protosolar Nebula. Astrophysical Journal, 2018, 859, 142.	4.5	12
17	Origin of glass inclusions hosted in magnesian porphyritic olivines chondrules: Deciphering planetesimal compositions. Earth and Planetary Science Letters, 2012, 319-320, 1-8.	4.4	11
18	A magmatic origin for silica-rich glass inclusions hosted in porphyritic magnesian olivines in chondrules: An experimental study. Geochimica Et Cosmochimica Acta, 2017, 204, 19-31.	3.9	6

#	Article	IF	Citations
19	The diffusion coefficients of noble gases (He Ar) in a synthetic basaltic liquid: One-dimensional diffusion experiments. Chemical Geology, 2018, 480, 35-43.	3.3	6
20	Hafnium solubility determination in soda-lime aluminosilicate glass. Journal of Non-Crystalline Solids, 2017, 457, 13-24.	3.1	5
21	Uranium solubility and speciation in reductive soda-lime aluminosilicate glass melts. Journal of Nuclear Materials, 2021, 544, 152666.	2.7	5
22	Origin of Na in glass inclusions hosted in olivine from Allende CV3 and Jbilet Winselwan CM2: Implications for chondrule formation. Earth and Planetary Science Letters, 2017, 474, 160-171.	4.4	4
23	Influence of glass composition on secondary ion mass spectrometry instrumental mass fractionation for Si and Ca isotopic analyses. Rapid Communications in Mass Spectrometry, 2017, 31, 351-361.	1.5	2
24	A new heating stage for high Temperature/low fO2 conditions. Journal of Crystal Growth, 2017, 458, 72-79.	1.5	2
25	Incorporation of Zn in the destabilization products of muscovite at 1175 ÂC under disequilibrium conditions, and implications for heavy metal sequestration. American Mineralogist, 2013, 98, 932-945.	1.9	0