

Hugh Stc O'neill

List of Publications by Year in descending order

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29
papers

2,016
citations

430874

18
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	The sulfate capacities of silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 368-382.	3.9	14
2	A combined Fourier transform infrared and Cr K-edge X-ray absorption near-edge structure spectroscopy study of the substitution and diffusion of H in Cr-doped forsterite. <i>European Journal of Mineralogy</i> , 2021, 33, 113-138.	1.3	8
3	Coordination change of Ge ⁴⁺ and Ga ³⁺ in silicate melt with pressure. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 303, 184-204.	3.9	8
4	The oxidation state of chromium in basaltic silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 304-320.	3.9	10
5	Comment on "Compositional and temperature effects on sulfur speciation and solubility in silicate melts" by Nash et al. [<i>Earth Planet. Sci. Lett.</i> 507 (2019) 187-198]. <i>Earth and Planetary Science Letters</i> , 2021, 560, 116843.	4.4	7
6	The coordination of Cr ²⁺ in silicate glasses and implications for mineral-melt fractionation of Cr isotopes. <i>Chemical Geology</i> , 2021, 586, 120483.	3.3	9
7	Mg diffusion in forsterite from 1250-1600 °C. <i>American Mineralogist</i> , 2020, 105, 525-537.	1.9	12
8	The oxidation state and coordination environment of antimony in silicate glasses. <i>Chemical Geology</i> , 2019, 524, 283-294.	3.3	11
9	Evaporation of moderately volatile elements from silicate melts: experiments and theory. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 204-231.	3.9	102
10	A re-assessment of the oxidation state of iron in MORB glasses. <i>Earth and Planetary Science Letters</i> , 2018, 483, 114-123.	4.4	120
11	Zinc isotope composition of the Earth and its behaviour during planetary accretion. <i>Chemical Geology</i> , 2018, 477, 73-84.	3.3	122
12	The oxidation state of iron in Mid-Ocean Ridge Basaltic (MORB) glasses: Implications for their petrogenesis and oxygen fugacities. <i>Earth and Planetary Science Letters</i> , 2018, 504, 152-162.	4.4	91
13	Beryllium diffusion in olivine: A new tool to investigate timescales of magmatic processes. <i>Earth and Planetary Science Letters</i> , 2016, 450, 71-82.	4.4	17
14	Comparative diffusion coefficients of major and trace elements in olivine at ~14950 °C from a xenocryst included in dioritic magma. <i>Geology</i> , 2010, 38, 331-334.	4.4	69
15	Determination of Selenium Concentrations in NIST SRM 610, 612, 614 and Geological Glass Reference Materials Using the Electron Probe, LA-ICP-MS and SHRIMP II. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 309-317.	3.1	15
16	The solubility and oxidation state of tungsten in silicate melts: Implications for the comparative chemistry of W and Mo in planetary differentiation processes. <i>Chemical Geology</i> , 2008, 255, 346-359.	3.3	72
17	Collisional erosion and the non-chondritic composition of the terrestrial planets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 4205-4238.	3.4	230
18	The infrared signature of water associated with trivalent cations in olivine. <i>Earth and Planetary Science Letters</i> , 2007, 261, 134-142.	4.4	118

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19	Titanium substitution mechanisms in forsterite. <i>Chemical Geology</i> , 2007, 242, 176-186.	3.3	83
20	An experimental determination of the effect of pressure on the Fe ³⁺ /Fe ratio of an anhydrous silicate melt to 3.0 GPa. <i>American Mineralogist</i> , 2006, 91, 404-412.	1.9	56
21	The effect of temperature on the equilibrium distribution of trace elements between clinopyroxene, orthopyroxene, olivine and spinel in upper mantle peridotite. <i>Chemical Geology</i> , 2005, 221, 65-101.	3.3	180
22	Direct observation of spinodal decomposition in the magnetite-hercynite system by susceptibility measurements and transmission electron microscopy. <i>American Mineralogist</i> , 2005, 90, 1278-1283.	1.9	20
23	The effect of melt composition on trace element partitioning: an experimental investigation of the activity coefficients of FeO, NiO, CoO, MoO ₂ and MoO ₃ in silicate melts. <i>Chemical Geology</i> , 2002, 186, 151-181.	3.3	271
24	The effect of Cr on the solubility of Al in orthopyroxene: experiments and thermodynamic modelling. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 84-98.	3.1	61
25	The Gibbs free energy of formation and heat capacity of Rh ₂ O ₃ and MgRh ₂ O ₄ , the MgO-Rh ₂ O phase diagram, and constraints on the stability of Mg ₂ Rh ₄ O ₄ . <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4159-4171.	3.9	21
26	Gibbs free energies of formation of RuO ₂ , IrO ₂ , and OsO ₂ : A high-temperature electrochemical and calorimetric study. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5279-5293.	3.9	66
27	Thermodynamic data from redox reactions at high temperatures. III. Activity-composition relations in Ni-Pd alloys from EMF measurements at 850-1250 K, and calibration of the NiO+Ni-Pd assemblage as a redox sensor. <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 327-339.	3.1	66
28	Crystal chemistry of synthetic hercynite (FeAl ₂ O ₄) from XRD structural refinements and Mössbauer spectroscopy. <i>European Journal of Mineralogy</i> , 1994, 6, 39-52.	1.3	64
29	Standard Gibbs free energy of formation for Cu ₂ O, NiO, CoO, and Fe _x O: High resolution electrochemical measurements using zirconia solid electrolytes from 900-1400 K. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2439-2452.	3.9	74