

Stephen Sutton

List of Publications by Year in descending order

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31
papers

1,370
citations

430874

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454955

30
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33
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docs citations

33
times ranked

1474
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-Induced Changes in Vanadium Speciation in Basaltic Glasses: Implications for Oxybarometry Measurements Using Vanadium K-edge X-ray Absorption Spectroscopy. <i>American Mineralogist</i> , 2021, , .	1.9	1
2	Shock experiments on basaltic Ferric sulfate mixes and their possible relevance to the sulfide bleb clusters in large impact melts in shergottites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 2250-2264.	1.6	1
3	Oxybarometry and valence quantification based on microscale X-ray absorption fine structure (XAFS) spectroscopy of multivalent elements. <i>Chemical Geology</i> , 2020, 531, 119305.	3.3	15
4	Valence determinations and oxybarometry on FIB-sectioned olivine and pyroxene using correlated Ti, V, and Cr micro-XAFS spectroscopy: Evaluation of ion-milling effects and application to Antarctic micrometeorite grains. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2553-2569.	1.6	1
5	Direct measurements of copper speciation in basaltic glasses: understanding the relative roles of sulfur and oxygen in copper complexation in melts. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 267, 164-178.	3.9	15
6	Vanadium, sulfur, and iron valences in melt inclusions as a window into magmatic processes: A case study at Nyamuragira volcano, Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 149-173.	3.9	15
7	Accurate predictions of microscale oxygen barometry in basaltic glasses using V K-edge X-ray absorption spectroscopy: A multivariate approach. <i>American Mineralogist</i> , 2018, 103, 1282-1297.	1.9	16
8	Signatures of the Martian regolith components entrained in some impact melt glasses in shergottites. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2558-2582.	1.6	6
9	Titanium, vanadium and chromium valences in silicates of ungrouped achondrite NWA 7325 and ureilite Y-791538 record highly-reduced origins. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 313-330.	3.9	22
10	Discrimination and quantification of Fe and Ni abundances in Genesis solar wind implanted collectors using X-ray standing wave fluorescence yield depth profiling with internal referencing. <i>Chemical Geology</i> , 2016, 441, 246-255.	3.3	5
11	XANES measurements of Cr valence in olivine and their applications to planetary basalts. <i>American Mineralogist</i> , 2014, 99, 1404-1412.	1.9	36
12	Synchrotron x-Ray Spectroscopic Analysis. , 2014, , 213-230.		4
13	XANES and Mn isotopic analyses of spinels in Cr-rich inclusions: Evidence for formation under oxidizing conditions. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2015-2043.	1.6	12
14	Chromium valences in ureilite olivine and implications for ureilite petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 280-305.	3.9	24
15	Redox systematics of martian magmas with implications for magnetite stability. <i>American Mineralogist</i> , 2013, 98, 616-628.	1.9	35
16	Isotopic evidence for a Martian regolith component in shergottite meteorites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
17	Partitioning of Eu between augite and a highly spiked martian basalt composition as a function of oxygen fugacity (IW-1 to QFM): Determination of Eu ²⁺ /Eu ³⁺ ratios by XANES. <i>American Mineralogist</i> , 2010, 95, 410-413.	1.9	19
18	The nature of Martian fluids based on mobile element studies in salt assemblages from Martian meteorites. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17

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19	Valence state partitioning of V between pyroxene-melt: Effects of pyroxene and melt composition, and direct determination of V valence states by XANES. Application to Martian basalt QUE 94201 composition. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1275-1285.	1.6	21
20	Valence state partitioning of Cr between pyroxene-melt: Effects of pyroxene and melt composition and direct determination of Cr valence states by XANES. Application to Martian basalt QUE 94201 composition. <i>American Mineralogist</i> , 2007, 92, 2002-2005.	1.9	22
21	Valence of titanium and vanadium in pyroxene in refractory inclusion interiors and rims. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3098-3118.	3.9	66
22	Spatial and Temporal Variability of Arsenic Solid-State Speciation in Historically Lead Arsenate Contaminated Soils. <i>Environmental Science & Technology</i> , 2006, 40, 673-679.	10.0	63
23	An experimental study of the oxidation state of vanadium in spinel and basaltic melt with implications for the origin of planetary basalt. <i>American Mineralogist</i> , 2006, 91, 1643-1656.	1.9	85
24	Vanadium K edge XANES of synthetic and natural basaltic glasses and application to microscale oxygen barometry. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2333-2348.	3.9	148
25	SYSTEMATICS IN THE STRUCTURE AND XANES SPECTRA OF PYROXENES, AMPHIBOLES, AND MICAS AS DERIVED FROM ORIENTED SINGLE CRYSTALS. <i>Canadian Mineralogist</i> , 2002, 40, 1375-1393.	1.0	49
26	Microfluorescence and Microtomography Analyses of Heterogeneous Earth and Environmental Materials. <i>Reviews in Mineralogy and Geochemistry</i> , 2002, 49, 429-483.	4.8	79
27	Strontium heterogeneity and speciation in coral aragonite: implications for the strontium paleothermometer. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2669-2676.	3.9	62
28	Micro-beam X-ray absorption and fluorescence spectroscopies at GSECARS: APS beamline 13ID. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 353-355.	2.4	42
29	X-ray microprobe analysis of iron oxidation states in silicates and oxides using X-ray absorption near edge structure (XANES). <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5209-5214.	3.9	209
30	Synchrotron x-ray microprobe determination of chromate content using x-ray absorption near-edge structure. <i>Analytical Chemistry</i> , 1993, 65, 1800-1804.	6.5	143
31	Reduced chromium in olivine grains from lunar basalt 15555: X-ray Absorption Near Edge Structure (XANES). <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 461-468.	3.9	126