# Cliff Sj Shaw

List of Publications by Year
in descending order

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|---|---|---|---|
| 40 papers | 1,279 citations | 331670 21 h-index | 345221 36 g-index |
| 40 all docs | 40 docs citations | 40 times ranked | 1225 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dissolution of orthopyroxene in basanitic magma between 0.4 and 2 GPa: further implications for the origin of Si-rich alkaline glass inclusions in mantle xenoliths. Contributions To Mineralogy and Petrology, 1999, 135, 114-132. | 3.1 | 92 |
| 2 | The origin of reaction textures in mantle peridotite xenoliths from Sal Island, Cape Verde: the case for â€œmetasomatismâ€•by the host lava. Contributions To Mineralogy and Petrology, 2006, 151, 681-697. | 3.1 | 87 |
| 3 | Mechanisms of orthopyroxene dissolution in silica-undersaturated melts at 1 atmosphere and implications for the origin of silica-rich glass in mantle xenoliths. Contributions To Mineralogy and Petrology, 1998, 132, 354-370. | 3.1 | 81 |
| 4 | Experimental peridotiteâ€“melt reaction at one atmosphere: a textural and chemical study. Contributions To Mineralogy and Petrology, 2008, 155, 199-214. | 3.1 | 78 |
| 5 | Origin of megacrysts in the mafic alkaline lavas of the West Eifel volcanic field, Germany. Lithos, 2000, 50, 75-95. | 1.4 | 76 |
| 6 | What is magnetic in the lower crust?. Earth and Planetary Science Letters, 2004, 226, 175-192. | 4.4 | 74 |
| 7 | Evidence of dehydration in peridotites from Eifel Volcanic Field and estimates of the rate of magma ascent. Journal of Volcanology and Geothermal Research, 2013, 258, 85-99. | 2.1 | 70 |
| 8 | Anomalous compression and equation of state of coesite. Physics of the Earth and Planetary Interiors, 2001, 124, 71-79. | 1.9 | 64 |
| 9 | The pressure and temperature conditions and timing of glass formation in mantle-derived xenoliths from Baarley, West Eifel, Germany: the case for amphibole breakdown, lava infiltration and mineral - melt reaction. Mineralogy and Petrology, 2002, 74, 163-187. | 1.1 | 59 |
| 10 | The temporal evolution of three magmatic systems in the West Eifel volcanic field, Germany. Journal of Volcanology and Geothermal Research, 2004, 131, 213-240. | 2.1 | 49 |
| 11 | Regional Variations in the Mineralogy of Metasomatic Assemblages in Mantle Xenoliths from the West Eifel Volcanic Field, Germany. Journal of Petrology, 2005, 46, 945-972. | 2.8 | 44 |
| 12 | Post-entrainment mineralâ€“melt reactions in spinel peridotite xenoliths from Inver, Donegal, Ireland. Geological Magazine, 1997, 134, 771-779. | 1.5 | 41 |
| 13 | Rietveld analysis of dicalcium aluminate (Ca<sub>2</sub>Al<sub>2</sub>O<sub>5</sub>)â€”A new high pressure phase with the Brownmillerite-type structure. American Mineralogist, 2000, 85, 1061-1065. | 1.9 | 38 |
| 14 | Thermal modeling of shock melts in Martian meteorites: Implications for preserving Martian atmospheric signatures and crystallization of highâ€pressure minerals from shock melts. Meteoritics and Planetary Science, 2013, 48, 758-770. | 1.6 | 38 |
| 15 | Compression mechanisms of coesite. Physics and Chemistry of Minerals, 2003, 30, 167-176. | 0.8 | 35 |
| 16 | Polymorphism of Strontium Monogallate: The Framework Structures of Î²-SrGa2O4 and ABW-Type Î³-SrGa2O4. Journal of Solid State Chemistry, 2000, 153, 294-300. | 2.9 | 29 |
| 17 | The effect of experiment geometry on the mechanism and rate of dissolution of quartz in basanite at 0.5â€‰GPa and 1350â€‰Â°C. Contributions To Mineralogy and Petrology, 2000, 139, 509-525. | 3.1 | 28 |
| 18 | Eocene shoshonitic mafic dykes intruding the Monashee Complex, British Columbia: a petrogenetic relationship with the Kamloops Group volcanic sequence?. Canadian Journal of Earth Sciences, 2005, 42, 11-24. | 1.3 | 23 |

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|---|---|---|---|
| 19 | Understanding the textures and origin of shock melt pockets in Martian meteorites from petrographic studies, comparisons with terrestrial mantle xenoliths, and experimental studies. Meteoritics and Planetary Science, 2009, 44, 55-76. | 1.6 | 23 |
| 20 | High-pressure Ca<sub>4</sub>Al<sub>6</sub>O<sub>13</sub>: An example of a calcium aluminate with three different types of coordination polyhedra for aluminum. American Mineralogist, 2000, 85, 1492-1496. | 1.9 | 22 |
| 21 | Mechanisms and rates of quartz dissolution in melts in the CMAS (CaO?MgO?Al2O3?SiO2) system. Contributions To Mineralogy and Petrology, 2004, 148, 180-200. | 3.1 | 22 |
| 22 | Textural development of amphibole during breakdown reactions in a synthetic peridotite. Lithos, 2009, 110, 215-228. | 1.4 | 21 |
| 23 | Effects of melt viscosity and silica activity on the rate and mechanism of quartz dissolution in melts of the CMAS and CAS systems. Contributions To Mineralogy and Petrology, 2006, 151, 665-680. | 3.1 | 20 |
| 24 | The petrology of the layered gabbro intrusion, eastern gabbro, Coldwell alkaline complex, Northwestern Ontario, Canada: evidence for multiple phases of intrusion in a ring dyke. Lithos, 1997, 40, 243-259. | 1.4 | 19 |
| 25 | Mixing properties of the enstatite-ferrosilite solid solution: I. A macroscopic perspective. European Journal of Mineralogy, 2002, 14, 525-536. | 1.3 | 17 |
| 26 | Crystallization rates of shock melts in three martian basalts: Experimental simulation with implications for meteoroid dimensions. Geochimica Et Cosmochimica Acta, 2006, 70, 1059-1075. | 3.9 | 17 |
| 27 | In situmapping of high-pressure fluids using hydrothermal diamond anvil cells. High Pressure Research, 2007, 27, 235-247. | 1.2 | 17 |
| 28 | Caught in the act â€" The first few hours of xenolith assimilation preserved in lavas of the Rockeskyllerkopf volcano, West Eifel, Germany. Lithos, 2009, 112, 511-523. | 1.4 | 15 |
| 29 | Structure and evolution of the Rockeskyllerkopf Volcanic Complex, West Eifel Volcanic Field, Germany. Bulletin of Volcanology, 2010, 72, 971-990. | 3.0 | 15 |
| 30 | Sudbury-type breccias in the Huronian Gowganda Formation near Whitefish Falls, Ontario: products of diabase intrusion into incompletely consolidated sediments?. Canadian Journal of Earth Sciences, 1999, 36, 1435-1448. | 1.3 | 14 |
| 31 | The role of magma mixing in the petrogenesis of mafic alkaline lavas, Rockeskyllerkopf Volcanic Complex, West Eifel, Germany. Bulletin of Volcanology, 2012, 74, 359-376. | 3.0 | 14 |
| 32 | The effects of potassium addition on the rate of quartz dissolution in the CMAS and CAS systems. Contributions To Mineralogy and Petrology, 2012, 164, 839-857. | 3.1 | 8 |
| 33 | The partitioning of barium and lead between silicate melts and aqueous fluids at high pressures and temperatures. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 434-440. | 1.4 | 6 |
| 34 | New evidence favouring an endogenic origin for supposed impact breccias in Huronian (Paleoproterozoic) sedimentary rocks. Precambrian Research, 2004, 133, 63-74. | 2.7 | 6 |
| 35 | Kinetics of dissolution of sapphire in melts in the CaOâ€“Al2O3â€“SiO2 system. Geochimica Et Cosmochimica Acta, 2018, 229, 129-146. | 3.9 | 5 |
| 36 | Synthetic and natural Fe-Mg chloritoid: structural, spectroscopic and thermodynamic studies. European Journal of Mineralogy, 2000, 12, 293-314. | 1.3 | 5 |

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|---|---|---|---|
| 37 | Aesthetics or function in heat-treating? The influence of colour preference in lithic preparation on the Maritime Peninsula, Eastern Canada. Journal of Anthropological Archaeology, 2020, 60, 101229. | 1.6 | 3 |
| 38 | Crystal structure analysis of synthetic Ca4Fe1.5Al17.67O32: A high-pressure, spinel-related phase. American Mineralogist, 2001, 86, 1477-1482. | 1.9 | 2 |
| 39 | The Crystal Structures of the Calcium Aluminogallates CaAlGaO4 and Ca2AlGaO5. Journal of Solid State Chemistry, 2001, 157, 62-67. | 2.9 | 1 |
| 40 | Dissolution - reprecipitation reactions as a mechanism for magma contamination: An example from interaction of partially melted sanidine megacrysts and clinopyroxene phenocrysts in nephelinite from Graulei, West Eifel Volcanic Field, Germany. Lithos, 2021, 404-405, 106486. | 1.4 | 1 |