# Francesco Vetere

List of Publications by Year
in descending order



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|---|---|---|---|
| 49 papers | 1,464 citations | 279798 23 h-index | 330143 37 g-index |
| 54 all docs | 54 docs citations | 54 times ranked | 1047 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Visible and near-InfraRed (VNIR) reflectance of silicate glasses: Characterization of a featureless spectrum and implications for planetary geology. Icarus, 2022, 374, 114801. | 2.5 | 10 |
| 2 | Crystal-chemical variations of spinel, clinopyroxene, and plagioclase in MORB basaltic melt induced by continuous cooling. Chemical Geology, 2022, 594, 120765. | 3.3 | 5 |
| 3 | Rifting and recharge as triggers of the mixed basaltâ€“rhyolite HalarauÃ°ur ignimbrite eruption (Krafla,) Tj ETQq1 1 0.784314 rgBT /O | 3.1 | 3 |
| 4 | VNIR reflectance spectra of silicate-graphite mixtures: The effect of graphite content and particle size. Icarus, 2022, 378, 114950. | 2.5 | 6 |
| 5 | Rheological changes in melts and magmas induced by crystallization and strain rate. Comptes Rendus - Geoscience, 2022, 354, 227-248. | 1.2 | 4 |
| 6 | Rheological evolution of eruptible Basaltic-Andesite Magmas under dynamic conditions: The importance of plagioclase growth rates. Journal of Volcanology and Geothermal Research, 2021, 420, 107411. | 2.1 | 5 |
| 7 | A review of the lattice strain and electrostatic effects on trace element partitioning between clinopyroxene and melt: Applications to magmatic systems saturated with Tschermak-rich clinopyroxenes. Earth-Science Reviews, 2020, 210, 103351. | 9.1 | 12 |
| 8 | The Onset and Solidification Path of a Basaltic Melt by in situ Differential Scanning Calorimetry (DSC) and ex situ Investigations. Frontiers in Earth Science, 2020, 8, . | 1.8 | 7 |
| 9 | Evolution of textures, crystal size distributions and growth rates of plagioclase, clinopyroxene and spinel crystallized at variable cooling rates from a mid-ocean ridge basaltic melt. Earth-Science Reviews, 2020, 204, 103165. | 9.1 | 34 |
| 10 | Viscosity behaviour of silicate melts during cooling under variable shear rates. Journal of Non-Crystalline Solids, 2020, 533, 119902. | 3.1 | 12 |
| 11 | Effect of the Nano-Ca(OH)2 Addition on the Portland Clinker Cooking Efficiency. Materials, 2019, 12, 1787. | 2.9 | 1 |
| 12 | Retrieving magma composition from TIR spectra: implications for terrestrial planets investigations. Scientific Reports, 2019, 9, 15200. | 3.3 | 13 |
| 13 | Interdiffusion of major elements at 1 atmosphere between natural shoshonitic and rhyolitic melts. American Mineralogist, 2019, 104, 1444-1454. | 1.9 | 5 |
| 14 | Viscosity of Pyroxenite Melt and Its Evolution During Cooling. Journal of Geophysical Research E: Planets, 2019, 124, 1451-1469. | 3.6 | 28 |
| 15 | Cooling history and emplacement of a pyroxenitic lava as proxy for understanding Martian lava flows. Scientific Reports, 2019, 9, 17051. | 3.3 | 8 |
| 16 | Role of magma mixing in the pre-eruptive dynamics of the Aeolian Islands volcanoes (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 | 1.4 | 26 |
| 17 | An integrated P-T-H2O-lattice strain model to quantify the role of clinopyroxene fractionation on REE+Y and HFSE patterns of mafic alkaline magmas: Application to eruptions at Mt. Etna. Earth-Science Reviews, 2018, 185, 32-56. | 9.1 | 72 |
| 18 | Diffusive exchange of trace elements between alkaline melts: Implications for element fractionation and timescale estimations during magma mixing. Geochimica Et Cosmochimica Acta, 2018, 233, 95-114. | 3.9 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Water-enhanced interdiffusion of major elements between natural shoshonite and high-K rhyolite melts. Chemical Geology, 2017, 466, 86-101. | 3.3 | 24 |
| 20 | Effects of CO2 flushing on crystal textures and compositions: experimental evidence from recent K-trachybasalts erupted at Mt. Etna. Contributions To Mineralogy and Petrology, 2017, 172, 1. | 3.1 | 22 |
| 21 | Glass stability (GS) of chemically complex (natural) sub-alkaline glasses. Journal of Non-Crystalline Solids, 2017, 477, 21-30. | 3.1 | 12 |
| 22 | The gravity anomaly of Mount Amiata; different approaches for understanding anomaly source distribution. Geophysical Journal International, 2017, 211, 865-882. | 2.4 | 4 |
| 23 | Experimental constraints on the rheology, eruption, and emplacement dynamics of analog lavas comparable to Mercury's northern volcanic plains. Journal of Geophysical Research E: Planets, 2017, 122, 1522-1538. | 3.6 | 31 |
| 24 | Exponential decay of concentration variance during magma mixing: Robustness of a volcanic chronometer and implications for the homogenization of chemical heterogeneities in magmatic systems. Lithos, 2017, 286-287, 396-407. | 1.4 | 22 |
| 25 | High-temperature apparatus for chaotic mixing of natural silicate melts. Review of Scientific Instruments, 2015, 86, 105108. | 1.3 | 17 |
| 26 | The roles of decompression rate and volatiles (H2O + Cl Â± CO2Â± S) on crystallization in (trachy-) basaltic magma. Chemical Geology, 2015, 411, 310-322. | 3.3 | 20 |
| 27 | Experimental and modeled chlorine solubilities in aluminosilicate melts at 1 to 7000 bars and 700 to 1250 ÂC: Applications to magmas of Augustine Volcano, Alaska. American Mineralogist, 2015, 100, 522-535. | 1.9 | 82 |
| 28 | Glass forming ability and crystallisation behaviour of sub-alkaline silicate melts. Earth-Science Reviews, 2015, 150, 25-44. | 9.1 | 70 |
| 29 | Experimental constraints on the origin of pahoehoe â€œciciraraâ€•lavas at Mt. Etna Volcano (Sicily, Italy). Bulletin of Volcanology, 2015, 77, 1. | 3.0 | 19 |
| 30 | Quantifying magma mixing with the Shannon entropy: Application to simulations and experiments. Lithos, 2015, 236-237, 299-310. | 1.4 | 13 |
| 31 | Dynamics and time evolution of a shallow plumbing system: The 1739 and 1888â€“90 eruptions, Vulcano Island, Italy. Journal of Volcanology and Geothermal Research, 2015, 306, 74-82. | 2.1 | 24 |
| 32 | First documented deep submarine explosive eruptions at the Marsili Seamount (Tyrrhenian Sea, Italy): A case of historical volcanism in the Mediterranean Sea. Gondwana Research, 2014, 25, 764-774. | 6.0 | 21 |
| 33 | The effect of alkalis and polymerization on the solubility of H2O and CO2 in alkali-rich silicate melts. Contributions To Mineralogy and Petrology, 2014, 167, 1. | 3.1 | 42 |
| 34 | Intrinsic solidification behaviour of basaltic to rhyolitic melts: A cooling rate experimental study. Chemical Geology, 2013, 354, 233-242. | 3.3 | 49 |
| 35 | Viscosity changes during crystallization of a shoshonitic magma: new insights on lava flow emplacement. Journal of Mineralogical and Petrological Sciences, 2013, 108, 144-160. | 0.9 | 32 |
| 36 | A general viscosity model of Campi Flegrei (Italy) melts. Chemical Geology, 2011, 290, 50-59. | 3.3 | 24 |

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|---|---|---|---|
| 37 | Solubility of H2O and CO2 in shoshonitic melts at 1250Â°C and pressures from 50 to 400MPa: Implications for Campi Flegrei magmatic systems. Journal of Volcanology and Geothermal Research, 2011, 202, 251-261. | 2.1 | 44 |
| 38 | Viscosity of flux-rich pegmatitic melts. Contributions To Mineralogy and Petrology, 2011, 162, 51-60. | 3.1 | 53 |
| 39 | Viscosity of crystal-bearing melts and its implication for magma ascent. Journal of Mineralogical and Petrological Sciences, 2010, 105, 151-163. | 0.9 | 28 |
| 40 | Magmatic Evolution and plumbing system of ring-fault volcanism: the Vulcanello Peninsula (Aeolian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.3 | 30 |
| 41 | The viscosity of hydrous dacitic liquids: implications for the rheology of evolving silicic magmas. Bulletin of Volcanology, 2009, 71, 185-199. | 3.0 | 62 |
| 42 | The viscosity of latitic melts from Lipari (Aeolian Islands, Italy): Inference on mixingâ€“mingling processes in magmas. Chemical Geology, 2009, 259, 89-97. | 3.3 | 13 |
| 43 | Viscosity of high-K basalt from the 5th April 2003 Stromboli paroxysmal explosion. Chemical Geology, 2009, 260, 278-285. | 3.3 | 31 |
| 44 | Solubility of H2O and CO2 in ultrapotassic melts at 1200 and 1250 ÂC and pressure from 50 to 500 MPa. American Mineralogist, 2009, 94, 105-120. | 1.9 | 127 |
| 45 | Viscosity of andesite melts and its implication for magma mixing prior to Unzen 1991â€“1995 eruption. Journal of Volcanology and Geothermal Research, 2008, 175, 208-217. | 2.1 | 36 |
| 46 | The viscosity of shoshonitic melts (Vulcanello Peninsula, Aeolian Islands, Italy): Insight on the magma ascent in dikes. Chemical Geology, 2007, 245, 89-102. | 3.3 | 46 |
| 47 | Viscosity of andesitic meltsâ€”new experimental data and a revised calculation model. Chemical Geology, 2006, 228, 233-245. | 3.3 | 65 |
| 48 | Non-linear deformation and break up of enclaves in a rhyolitic magma: A case study from Lipari Island (southern Italy). Geophysical Research Letters, 2004, 31, . | 4.0 | 16 |
| 49 | Water solubility in trachytic melts. Chemical Geology, 2004, 213, 187-196. | 3.3 | 93 |