

# Keith D Putirka

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

3,044  
citations

489802

18  
h-index

536525

29  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2566  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Polluted white dwarfs reveal exotic mantle rock types on exoplanets in our solar neighborhood. <i>Nature Communications</i> , 2021, 12, 6168.   | 5.8 | 14        |
| 2  | Compositional Diversity of Rocky Exoplanets. <i>Elements</i> , 2021, 17, 235-240.   | 0.5 | 7         |
| 3  | Mineral compositions and thermobarometry of basalts and boninites recovered during IODP Expedition 352 to the Bonin forearc. <i>American Mineralogist</i> , 2020, 105, 1490-1507.   | 0.9 | 26        |
| 4  | Why scientists should study chess. <i>American Mineralogist</i> , 2019, 104, 785-787.   | 0.9 | 0         |
| 5  | The composition and mineralogy of rocky exoplanets: A survey of >4000 stars from the Hypatia Catalog. <i>American Mineralogist</i> , 2019, 104, 817-829.  | 0.9 | 27        |
| 6  | Eruption triggering by partial crystallization of mafic enclaves at Chaos Crags, Lassen Volcanic Center, California. <i>American Mineralogist</i> , 2018, 103, 1575-1590.   | 0.9 | 19        |
| 7  | The mantle source of thermal plumes: Trace and minor elements in olivine and major oxides of primitive liquids (and why the olivine compositions don't matter). <i>American Mineralogist</i> , 2018, 103, 1253-1270.                                    | 0.9 | 35        |
| 8  | Geothermometry and Geobarometry. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 597-614.  | 0.1 | 3         |
| 9  | A new high JIF for <i>American Mineralogist</i> (by all early indications), why you shouldn't care, and a note on values. <i>American Mineralogist</i> , 2017, 102, 1369-1372.  | 0.9 | 0         |
| 10 | Geothermometry and Geobarometry. <i>Encyclopedia of Earth Sciences Series</i> , 2017, , 1-19.   | 0.1 | 2         |
| 11 | Amphibole thermometers and barometers for igneous systems and some implications for eruption mechanisms of felsic magmas at arc volcanoes. <i>American Mineralogist</i> , 2016, 101, 841-858.   | 0.9 | 381       |
| 12 | Rates and styles of planetary cooling on Earth, Moon, Mars, and Vesta, using new models for oxygen fugacity, ferric-ferrous ratios, olivine-liquid Fe-Mg exchange, and mantle potential temperature. <i>American Mineralogist</i> , 2016, 101, 819-840. | 0.9 | 126       |
| 13 | The most-cited journal in mineralogy and petrology (and what scientists can learn from baseball). <i>American Mineralogist</i> , 2016, 101, 497-499.  | 0.9 | 1         |
| 14 | The magma plumbing system of the Emeishan large igneous province and its role in basaltic magma differentiation in a continental setting. <i>American Mineralogist</i> , 2015, 100, 2509-2517.  | 0.9 | 40        |
| 15 | The <i>American Mineralogist</i> at 100 years, and a mineralogy renaissance. <i>American Mineralogist</i> , 2015, 100, 1-2.   | 0.9 | 1         |
| 16 | New thermobarometers for martian igneous rocks, and some implications for secular cooling on Mars. <i>American Mineralogist</i> , 2015, 100, 2163-2171.   | 0.9 | 8         |
| 17 | Data, ideas, and the nature of scientific progress. <i>American Mineralogist</i> , 2015, 100, 1657-1658.  | 0.9 | 2         |
| 18 | The control of cooling rate on titanomagnetite composition: implications for a geospeedometry model applicable to alkaline rocks from Mt. Etna volcano. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 457-475.                          | 1.2 | 64        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A New Model to Estimate Deep-level Magma Ascent Rates, with Applications to Mt. Etna (Sicily, Italy). <i>Journal of Petrology</i> , 2013, 54, 795-813.  | 1.1 | 98        |
| 20 | A new test for equilibrium based on clinopyroxene-melt pairs: Clues on the solidification temperatures of Etnean alkaline melts at post-eruptive conditions. <i>Chemical Geology</i> , 2013, 352, 92-100.                                     | 1.4 | 143       |
| 21 | Why you should publish your best papers in <i>American Mineralogist</i> : An International Journal of Earth and Planetary Materials. <i>American Mineralogist</i> , 2013, 98, 1377-1378.  | 0.9 | 1         |
| 22 | Title is missing!. , 2012, 8, 265.  |     | 37        |
| 23 | Mineralogy and Composition of the Oceanic Mantle. <i>Journal of Petrology</i> , 2011, 52, 279-313.  | 1.1 | 120       |
| 24 | Plagioclase-melt (dis)equilibrium due to cooling dynamics: Implications for thermometry, barometry and hygrometry. <i>Lithos</i> , 2011, 125, 221-235.  | 0.6 | 81        |
| 25 | Magma Evolution and Ascent at the Craters of the Moon and Neighboring Volcanic Fields, Southern Idaho, USA: Implications for the Evolution of Polygenetic and Monogenetic Volcanic Fields. <i>Journal of Petrology</i> , 2009, 50, 1639-1665. | 1.1 | 35        |
| 26 | 3. Thermometers and Barometers for Volcanic Systems. , 2008, , 61-120.  |     | 182       |
| 27 | Ambient and excess mantle temperatures, olivine thermometry, and active vs. passive upwelling. <i>Chemical Geology</i> , 2007, 241, 177-206.  | 1.4 | 374       |
| 28 | Igneous thermometers and barometers based on plagioclase + liquid equilibria: Tests of some existing models and new calibrations. <i>American Mineralogist</i> , 2005, 90, 336-346.   | 0.9 | 287       |
| 29 | Mantle potential temperatures at Hawaii, Iceland, and the mid-ocean ridge system, as inferred from olivine phenocrysts: Evidence for thermally driven mantle plumes. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.          | 1.0 | 287       |
| 30 | New clinopyroxene-liquid thermobarometers for mafic, evolved, and volatile-bearing lava compositions, with applications to lavas from Tibet and the Snake River Plain, Idaho. <i>American Mineralogist</i> , 2003, 88, 1542-1554.             | 0.9 | 463       |
| 31 | Melting depths and mantle heterogeneity beneath Hawaii and the East Pacific Rise: Constraints from Na/Ti and rare earth element ratios. <i>Journal of Geophysical Research</i> , 1999, 104, 2817-2829.  | 3.3 | 88        |
| 32 | Garnet + liquid equilibrium. <i>Contributions To Mineralogy and Petrology</i> , 1998, 131, 273-288.   | 1.2 | 18        |
| 33 | Magma transport at Hawaii: Inferences based on igneous thermobarometry. <i>Geology</i> , 1997, 25, 69.  | 2.0 | 71        |
| 34 | A New Workflow to Assess Emplacement Duration and Melt Residence Time of Compositionally Diverse Magmas Emplaced in a Sub-volcanic Reservoir. <i>Journal of Petrology</i> , 0, , .  | 1.1 | 3         |