

Greg Hirth

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

4,222
citations

516710

16
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

2708
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microstructural Shift due to Post-Deformation Annealing in the Upper Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009377. | 2.5 | 7 |
| 2 | Assessment of Quartz Grain Growth and the Application of the Wattmeter to Predict Quartz Recrystallized Grain Sizes. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021475. | 3.4 | 9 |
| 3 | Rates of Olivine Grain Growth During Dynamic Recrystallization and Postdeformation Annealing. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020415. | 3.4 | 16 |
| 4 | The influence of stress history on the grain size and microstructure of experimentally deformed quartzite. <i>Journal of Structural Geology</i> , 2016, 83, 194-206. | 2.3 | 46 |
| 5 | Role of pore fluid pressure on transient strength changes and fabric development during serpentine dehydration at mantle conditions: Implications for subduction-zone seismicity. <i>Earth and Planetary Science Letters</i> , 2015, 421, 1-12. | 4.4 | 44 |
| 6 | Experimental Constraints on Thermal Cracking of Peridotite at Oceanic Spreading Centers. <i>Geophysical Monograph Series</i> , 2013, , 167-185. | 0.1 | 15 |
| 7 | Using short-term postseismic displacements to infer the ambient deformation conditions of the upper mantle. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 86 |
| 8 | Implications of grain size evolution on the seismic structure of the oceanic upper mantle. <i>Earth and Planetary Science Letters</i> , 2009, 282, 178-189. | 4.4 | 118 |
| 9 | Rheologic controls on slab dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, . | 2.5 | 166 |
| 10 | Grain size sensitive deformation mechanisms in naturally deformed peridotites. <i>Earth and Planetary Science Letters</i> , 2006, 248, 438-450. | 4.4 | 299 |
| 11 | Newtonian versus non-Newtonian upper mantle viscosity: Implications for subduction initiation. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a. | 4.0 | 37 |
| 12 | Correction to "Newtonian versus non-Newtonian upper mantle viscosity: Implications for subduction initiation". <i>Geophysical Research Letters</i> , 2005, 32, . | 4.0 | 0 |
| 13 | Melt extraction from partially molten peridotites. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a. | 2.5 | 33 |
| 14 | Arc-parallel flow within the mantle wedge: Evidence from the accreted Talkeetna arc, south central Alaska. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 122 |
| 15 | Rheology of the upper mantle and the mantle wedge: A view from the experimentalists. <i>Geophysical Monograph Series</i> , 2003, , 83-105. | 0.1 | 780 |
| 16 | Grain growth and inclusion formation in partially molten carbonate rocks. <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 501-514. | 3.1 | 22 |
| 17 | Variation of cooling rate with depth in lower crust formed at an oceanic spreading ridge: Plagioclase crystal size distributions in gabbros from the Oman ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a. | 2.5 | 73 |
| 18 | An evaluation of quartzite flow laws based on comparisons between experimentally and naturally deformed rocks. <i>International Journal of Earth Sciences</i> , 2001, 90, 77-87. | 1.8 | 465 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Comparison of continental and oceanic mantle electrical conductivity: Is the Archean lithosphere dry?. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a. | 2.5 | 124 |
| 20 | Water in the oceanic upper mantle: implications for rheology, melt extraction and the evolution of the lithosphere. <i>Earth and Planetary Science Letters</i> , 1996, 144, 93-108. | 4.4 | 1,423 |
| 21 | Experimental constraints on the dynamics of the partially molten upper mantle: 2. Deformation in the dislocation creep regime. <i>Journal of Geophysical Research</i> , 1995, 100, 15441-15449. | 3.3 | 281 |
| 22 | The Rheology of the Lower Oceanic Crust: Implications for Lithospheric Deformation at Mid-Ocean Ridges. <i>Geophysical Monograph Series</i> , 0, , 291-303. | 0.1 | 56 |