

Marcel Thielmann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7748341/publications.pdf>

Version: 2024-02-01

21
papers

590
citations

623734

14
h-index

713466

21
g-index

40
all docs

40
docs citations

40
times ranked

812
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Chemical Stability of FeOOH at High Pressure and Temperature, and Oxygen Recycling in Early Earth History**. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3048-3053. | 2.0 | 16 |
| 2 | Ferropericlasite Control of Lower Mantle Rheology: Impact of Phase Morphology. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008688. | 2.5 | 20 |
| 3 | Contributions of Grain Damage, Thermal Weakening, and Necking to Slab Detachment. <i>Frontiers in Earth Science</i> , 2020, 8, . | 1.8 | 8 |
| 4 | A transdisciplinary and community-driven database to unravel subduction zone initiation. <i>Nature Communications</i> , 2020, 11, 3750. | 12.8 | 83 |
| 5 | High-stress creep preceding coseismic rupturing in amphibolite-facies ultramylonites. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116260. | 4.4 | 13 |
| 6 | Can Grain Size Reduction Initiate Transform Faults? Insights From a 3D Numerical Study. <i>Tectonics</i> , 2020, 39, e2019TC005793. | 2.8 | 15 |
| 7 | Effect of Water on Lattice Thermal Conductivity of Ringwoodite and Its Implications for the Thermal Evolution of Descending Slabs. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087607. | 4.0 | 16 |
| 8 | Combined numerical and experimental study of microstructure and permeability in porous granular media. <i>Solid Earth</i> , 2020, 11, 1079-1095. | 2.8 | 12 |
| 9 | Pore-scale permeability prediction for Newtonian and non-Newtonian fluids. <i>Solid Earth</i> , 2019, 10, 1717-1731. | 2.8 | 15 |
| 10 | Tomographic Study of Internal Erosion of Particle Flows in Porous Media. <i>Transport in Porous Media</i> , 2018, 122, 169-184. | 2.6 | 18 |
| 11 | Critical Bursts in Filtration. <i>Physical Review Letters</i> , 2018, 120, 034503. | 7.8 | 13 |
| 12 | Grain size assisted thermal runaway as a nucleation mechanism for continental mantle earthquakes: Impact of complex rheologies. <i>Tectonophysics</i> , 2018, 746, 611-623. | 2.2 | 29 |
| 13 | 3D geodynamic models for the development of opposing continental subduction zones: The Hindu Kush-Pamir example. <i>Earth and Planetary Science Letters</i> , 2017, 480, 133-146. | 4.4 | 31 |
| 14 | Tensile stress relaxation in unsaturated granular materials. <i>Granular Matter</i> , 2016, 18, 1. | 2.2 | 5 |
| 15 | Critical Fragmentation Properties of Random Drilling: How Many Holes Need to Be Drilled to Collapse a Wooden Cube?. <i>Physical Review Letters</i> , 2016, 116, 055701. | 7.8 | 18 |
| 16 | Grain-scale modeling of arbitrary fluid saturation in random packings. <i>Physical Review E</i> , 2015, 92, 022206. | 2.1 | 27 |
| 17 | Lithospheric stresses in Rayleigh-Bénard convection: effects of a free surface and a viscoelastic Maxwell rheology. <i>Geophysical Journal International</i> , 2015, 203, 2200-2219. | 2.4 | 16 |
| 18 | Intermediate-depth earthquake generation and shear zone formation caused by grain size reduction and shear heating. <i>Geology</i> , 2015, 43, 791-794. | 4.4 | 66 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Discretization Errors in the Hybrid Finite Element Particle-in-cell Method. Pure and Applied Geophysics, 2014, 171, 2165-2184. | 1.9 | 20 |
| 20 | Strain Localization in Pyroxenite by Reaction-Enhanced Softening in the Shallow Subcontinental Lithospheric Mantle. Journal of Petrology, 2013, 54, 1997-2031. | 2.8 | 29 |
| 21 | Shear heating induced lithospheric-scale localization: Does it result in subduction?. Earth and Planetary Science Letters, 2012, 359-360, 1-13. | 4.4 | 119 |