# Lukas Keller

List of Publications by Year
in descending order



| 32 | 1,188 | 394286 | 434063 |
|---|---|---|---|
| papers | citations | 19 h-index | 31 g-index |

| 32 | 32 | 32 | 1266 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 3D pore microstructures and computer simulation: Effective permeabilities and capillary pressure during drainage in Opalinus Clay. Oil and Gas Science and Technology, 2021, 76, 44. | 1.4 | 1 |
| 2 | Petrophysical Properties of Opalinus Clay Drill Cores Determined from Med-XCT Images. Geotechnical and Geological Engineering, 2019, 37, 3507-3522. | 0.8 | 8 |
| 3 | Consolidated-undrained triaxial testing of Opalinus Clay: Results and method validation. Geomechanics for Energy and the Environment, 2018, 14, 16-28. | 1.2 | 34 |
| 4 | Imageâ€Based Upscaling of Permeability in Opalinus Clay. Journal of Geophysical Research: Solid Earth, 2018, 123, 285-295. | 1.4 | 32 |
| 5 | Understanding anisotropic mechanical properties of shales at different length scales: In situ micropillar compression combined with finite element calculations. Journal of Geophysical Research: Solid Earth, 2017, 122, 5945-5955. | 1.4 | 16 |
| 6 | Porosity anisotropy of Opalinus Clay: implications for the poroelastic behaviour. Geophysical Journal International, 2017, 208, 1443-1448. | 1.0 | 7 |
| 7 | Pore geometry effects on elastic properties of Opalinus Clay. Geophysics, 2016, 81, D543-D551. | 1.4 | 5 |
| 8 | Impact of sand content on solute diffusion in Opalinus Clay. Applied Clay Science, 2015, 112-113, 134-142. | 2.6 | 16 |
| 9 | Intergranular pore space evolution in MX80 bentonite during a long-term experiment. Applied Clay Science, 2015, 104, 150-159. | 2.6 | 8 |
| 10 | The Pore Structure of Compacted and Partly Saturated MX-80 Bentonite at Different Dry Densities. Clays and Clay Minerals, 2014, 62, 174-187. | 0.6 | 24 |
| 11 | On the Potential of Tomographic Methods when Applied to Compacted Crushed Rock Salt. Transport in Porous Media, 2014, 104, 607-620. | 1.2 | 1 |
| 12 | Characterization of multi-scale microstructural features in Opalinus Clay. Microporous and Mesoporous Materials, 2013, 170, 83-94. | 2.2 | 152 |
| 13 | Threeâ€dimensional pore structure and ion conductivity of porous ceramic diaphragms. AICHE Journal, 2013, 59, 1446-1457. | 1.8 | 52 |
| 14 | Redox cycling of Niâ€“YSZ anodes for solid oxide fuel cells: Influence of tortuosity, constriction and percolation factors on the effective transport properties. Journal of Power Sources, 2013, 242, 179-194. | 4.0 | 59 |
| 15 | Pore space relevant for gas permeability in Opalinus clay: Statistical analysis of homogeneity, percolation, and representative volume element. Journal of Geophysical Research: Solid Earth, 2013, 118, 2799-2812. | 1.4 | 91 |
| 16 | 3D geometry and topology of pore pathways in Opalinus clay: Implications for mass transport. Applied Clay Science, 2011, 52, 85-95. | 2.6 | 190 |
| 17 | On the application of focused ion beam nanotomography in characterizing the 3D pore space geometry of Opalinus clay. Physics and Chemistry of the Earth, 2011, 36, 1539-1544. | 1.2 | 75 |
| 18 | The single-slip hypothesis revisited: Crystal-preferred orientations of sheared quartz aggregates with increasing strain in nature and numerical simulation. Journal of Structural Geology, 2011, 33, 1491-1500. | 1.0 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The behavior of Mg, Fe, and Ni during the replacement of olivine by orthopyroxene: experiments relevant to mantle metasomatism. Mineralogy and Petrology, 2011, 103, 1-8. | 0.4 | 10 |
| 20 | Reaction rim growth inÂtheÂsystemÂMgO-Al2O3-SiO2 underÂuniaxialÂstress. Mineralogy and Petrology, 2010, 99, 263-277. | 0.4 | 28 |
| 21 | Enhancement of solid-state reaction rates by non-hydrostatic stress effects on polycrystalline diffusion kinetics. American Mineralogist, 2010, 95, 1399-1407. | 0.9 | 27 |
| 22 | Complex chemical zoning in eclogite facies garnet reaction rims: the role of grain boundary diffusion. Mineralogy and Petrology, 2009, 95, 303-313. | 0.4 | 9 |
| 23 | Asymmetrically zoned reaction rims: assessment of grain boundary diffusivities and growth rates related to natural diffusionâ€controlled mineral reactions. Journal of Metamorphic Geology, 2008, 26, 99-120. | 1.6 | 32 |
| 24 | Component mobility at 900Â°C and 18kbar from experimentally grown coronas in a natural gabbro. Geochimica Et Cosmochimica Acta, 2008, 72, 4307-4322. | 1.6 | 11 |
| 25 | Diffusion along interphase boundaries and its effect on retrograde zoning patterns of metamorphic minerals. Contributions To Mineralogy and Petrology, 2007, 154, 205-216. | 1.2 | 15 |
| 26 | Enhanced mass transfer through short-circuit diffusion: Growth of garnet reaction rims at eclogite facies conditions. American Mineralogist, 2006, 91, 1024-1038. | 0.9 | 54 |
| 27 | Simplon fault zone in the western and central Alps: Mechanism of Neogene faulting and folding revisited. Geology, 2006, 34, 317. | 2.0 | 25 |
| 28 | Structural and metamorphic evolution of the Camughera â€“ Moncucco, Antrona and Monte Rosa units southwest of the Simplon line,Western Alps. Eclogae Geologicae Helveticae, 2005, 98, 19-49. | 0.6 | 59 |
| 29 | Phase Relations and Chemical Composition of Phengite and Paragonite in Pelitic Schists During Decompression: a Case Study from the Monte Rosa Nappe and Camugheraâ€“Moncucco Unit, Western Alps. Journal of Petrology, 2005, 46, 2145-2166. | 1.1 | 20 |
| 30 | A Quaternary Solution Model for White Micas Based on Natural Coexisting Phengiteâ€“Paragonite Pairs. Journal of Petrology, 2005, 46, 2129-2144. | 1.1 | 49 |
| 31 | Deformation, mass transfer and mineral reactions in an eclogite facies shear zone in a polymetamorphic metapelite (Monte Rosa nappe, western Alps). Journal of Metamorphic Geology, 2004, 22, 97-118. | 1.6 | 53 |
| 32 | In-situ Shear Modulus Determination by Pressuremeter Tests in Opalinus Clay and Reconciliation with Laboratory Tests. Rock Mechanics and Rock Engineering, 0, , . | 2.6 | 0 |