

Lukas Keller

List of Publications by Year in descending order

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32
papers

1,188
citations

394286

19
h-index

434063

31
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all docs

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docs citations

32
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	3D geometry and topology of pore pathways in Opalinus clay: Implications for mass transport. <i>Applied Clay Science</i> , 2011, 52, 85-95.	2.6	190
2	Characterization of multi-scale microstructural features in Opalinus Clay. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 83-94.	2.2	152
3	Pore space relevant for gas permeability in Opalinus clay: Statistical analysis of homogeneity, percolation, and representative volume element. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2799-2812.	1.4	91
4	On the application of focused ion beam nanotomography in characterizing the 3D pore space geometry of Opalinus clay. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1539-1544.	1.2	75
5	Structural and metamorphic evolution of the Camughera " Moncucco, Antrona and Monte Rosa units southwest of the Simplon line, Western Alps. <i>Eclogae Geologicae Helveticae</i> , 2005, 98, 19-49.	0.6	59
6	Redox cycling of NiYSZ anodes for solid oxide fuel cells: Influence of tortuosity, constriction and percolation factors on the effective transport properties. <i>Journal of Power Sources</i> , 2013, 242, 179-194.	4.0	59
7	Enhanced mass transfer through short-circuit diffusion: Growth of garnet reaction rims at eclogite facies conditions. <i>American Mineralogist</i> , 2006, 91, 1024-1038.	0.9	54
8	Deformation, mass transfer and mineral reactions in an eclogite facies shear zone in a polymetamorphic metapelite (Monte Rosa nappe, western Alps). <i>Journal of Metamorphic Geology</i> , 2004, 22, 97-118.	1.6	53
9	Three-dimensional pore structure and ion conductivity of porous ceramic diaphragms. <i>AIChE Journal</i> , 2013, 59, 1446-1457.	1.8	52
10	A Quaternary Solution Model for White Micas Based on Natural Coexisting PhengiteParagonite Pairs. <i>Journal of Petrology</i> , 2005, 46, 2129-2144.	1.1	49
11	Consolidated-undrained triaxial testing of Opalinus Clay: Results and method validation. <i>Geomechanics for Energy and the Environment</i> , 2018, 14, 16-28.	1.2	34
12	Asymmetrically zoned reaction rims: assessment of grain boundary diffusivities and growth rates related to natural diffusion-controlled mineral reactions. <i>Journal of Metamorphic Geology</i> , 2008, 26, 99-120.	1.6	32
13	Image-Based Upscaling of Permeability in Opalinus Clay. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 285-295.	1.4	32
14	Reaction rim growth in the MgO-Al ₂ O ₃ -SiO ₂ system under uniaxial stress. <i>Mineralogy and Petrology</i> , 2010, 99, 263-277.	0.4	28
15	Enhancement of solid-state reaction rates by non-hydrostatic stress effects on polycrystalline diffusion kinetics. <i>American Mineralogist</i> , 2010, 95, 1399-1407.	0.9	27
16	Simplon fault zone in the western and central Alps: Mechanism of Neogene faulting and folding revisited. <i>Geology</i> , 2006, 34, 317.	2.0	25
17	The single-slip hypothesis revisited: Crystal-preferred orientations of sheared quartz aggregates with increasing strain in nature and numerical simulation. <i>Journal of Structural Geology</i> , 2011, 33, 1491-1500.	1.0	25
18	The Pore Structure of Compacted and Partly Saturated MX-80 Bentonite at Different Dry Densities. <i>Clays and Clay Minerals</i> , 2014, 62, 174-187.	0.6	24

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19	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. <i>Journal of Petrology</i> , 2005, 46, 2145-2166.	1.1	20
20	Impact of sand content on solute diffusion in Opalinus Clay. <i>Applied Clay Science</i> , 2015, 112-113, 134-142.	2.6	16
21	Understanding anisotropic mechanical properties of shales at different length scales: In situ micropillar compression combined with finite element calculations. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5945-5955.	1.4	16
22	Diffusion along interphase boundaries and its effect on retrograde zoning patterns of metamorphic minerals. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 205-216.	1.2	15
23	Component mobility at 900Â°C and 18kbar from experimentally grown coronas in a natural gabbro. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4307-4322.	1.6	11
24	The behavior of Mg, Fe, and Ni during the replacement of olivine by orthopyroxene: experiments relevant to mantle metasomatism. <i>Mineralogy and Petrology</i> , 2011, 103, 1-8.	0.4	10
25	Complex chemical zoning in eclogite facies garnet reaction rims: the role of grain boundary diffusion. <i>Mineralogy and Petrology</i> , 2009, 95, 303-313.	0.4	9
26	Intergranular pore space evolution in MX80 bentonite during a long-term experiment. <i>Applied Clay Science</i> , 2015, 104, 150-159.	2.6	8
27	Petrophysical Properties of Opalinus Clay Drill Cores Determined from Med-XCT Images. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 3507-3522.	0.8	8
28	Porosity anisotropy of Opalinus Clay: implications for the poroelastic behaviour. <i>Geophysical Journal International</i> , 2017, 208, 1443-1448.	1.0	7
29	Pore geometry effects on elastic properties of Opalinus Clay. <i>Geophysics</i> , 2016, 81, D543-D551.	1.4	5
30	On the Potential of Tomographic Methods when Applied to Compacted Crushed Rock Salt. <i>Transport in Porous Media</i> , 2014, 104, 607-620.	1.2	1
31	3D pore microstructures and computer simulation: Effective permeabilities and capillary pressure during drainage in Opalinus Clay. <i>Oil and Gas Science and Technology</i> , 2021, 76, 44.	1.4	1
32	In-situ Shear Modulus Determination by Pressuremeter Tests in Opalinus Clay and Reconciliation with Laboratory Tests. <i>Rock Mechanics and Rock Engineering</i> , 0, , .	2.6	0