Ernst K Huenges

List of Publications by Year
in descending order

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51 papers	2,046 citations	394286 19 h-index	243529 44 g-index
60 all docs	60 docs citations	60 times ranked	1875 citing authors

#	Article	IF	Citations
1	Response of Upper Jurassic (Malm) Limestone to Temperature Change: Experimental Results on Rock Deformation and Permeability. Rock Mechanics and Rock Engineering, 2021, 54, 337-358.	2.6	4
2	Soft stimulation treatment of geothermal well RV-43 to meet the growing heat demand of Reykjavik. Geothermics, 2021, 96, 102146.	1.5	5
3	3-D seismic exploration across the deep geothermal research platform GroÃŸ SchÃ¶nebeck north of Berlin/Germany. Geothermal Energy, 2019, 7, .	0.9	13
4	First field application of cyclic soft stimulation at the Pohang Enhanced Geothermal System site in Korea. Geophysical Journal International, 2019, 217, 926-949.	1.0	90
5	The Impact of Reservoir Heterogeneities on High-Temperature Aquifer Thermal Energy Storage Systems. A Case Study from Northern Oman.. Geothermics, 2018, 74, 150-162.	1.5	23
6	Thermo-mechanical Properties of Upper Jurassic (Malm) Carbonate Rock Under Drained Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 23-45.	2.6	13
7	Geothermal exploration in a sedimentary basin: new continuous temperature data and physical rock properties from northern Oman. Geothermal Energy, 2018, 6, .	0.9	12
8	Utilizing supercritical geothermal systems: a review of past ventures and ongoing research activities. Geothermal Energy, 2017, 5, .	0.9	127
9	Balanced Reverse-Cleanout Operation: Removing Large and Heavy Particles From a Geothermal Well. SPE Production and Operations, 2017, 32, 228-237.	0.4	0
10	The new Geothermal Energy: Science, Society, and Technology. Geothermal Energy, 2017, 5, .	0.9	1
11	Thermal strain in a water-saturated limestone under hydrostatic and deviatoric stress states. Tectonophysics, 2016, 688, 49-64.	0.9	12
12	Thermo-poroelastic numerical modelling for enhanced geothermal system performance: Case study of the GroÃŸ SchÃ¶nebeck reservoir. Tectonophysics, 2016, 684, 119-130.	0.9	29
13	Hydraulic history and current state of the deep geothermal reservoir GroÃŸ SchÃ¶nebeck. Geothermics, 2016, 63, 27-43.	1.5	63
14	News and analysis on materials solutions to energy challenges. MRS Bulletin, 2015, 40, 213-213.	1.7	1
15	Reverse Cleanout in a Geothermal Well: Analysis of a Failed Coiled-Tubing Operation. SPE Production and Operations, 2015, 30, 312-320.	0.4	7
16	Deep 3D thermal modelling for the city of Berlin (Germany). Environmental Earth Sciences, 2013, 70, 3545-3566.	1.3	32
17	Geothermal Energy: a glimpse at the state of the field and an introduction to the journal. Geothermal Energy, 2013, 1, .	0.9	17
18	The deep geothermal potential of the Berlin area. Environmental Earth Sciences, 2013, 70, 3567-3584.	1.3	13

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19	Geothermal energy systems: research perspective for domestic energy provision. Environmental Earth Sciences, 2013, 70, 3927-3933.	1.3	35
20	Geoenergy: new concepts for utilization of geo-reservoirs as potential energy sources. Environmental Earth Sciences, 2013, 70, 3427-3431.	1.3	7
21	Modelling of fractured carbonate reservoirs: outline of a novel technique via a case study from the Molasse Basin, southern Bavaria, Germany. Environmental Earth Sciences, 2013, 70, 3585-3602.	1.3	61
22	Mechanically Induced Fracture-Face Skinâ€"Insights From Laboratory Testing and Modeling Approaches. SPE Production and Operations, 2013, 28, 26-35.	0.4	16
23	Geochemical and Process Engineering Challenges for Geothermal Power Generation. Chemie-Ingenieur-Technik, 2011, 83, 2093-2104.	0.4	34
24	Microseismicity induced during fluid-injection: A case study from the geothermal site at GroÃŸ SchÃ¶nebeck, North German Basin. Acta Geophysica, 2010, 58, 995-1020.	1.0	42
25	Deployment of Enhanced Geothermal Systems Plants and CO2 Mitigation. , 2010, , 423-428.		1
26	Geochemical properties of saline geothermal fluids from the in-situ geothermal laboratory GroÃŸ SchÃ¶nebeck (Germany). Chemie Der Erde, 2010, 70, 3-12.	0.8	69
27	Hydraulic fracturing stimulation techniques and formation damage mechanismsâ€"Implications from laboratory testing of tight sandstoneâ€"proppant systems. Chemie Der Erde, 2010, 70, 107-117.	0.8	175
28	Pressure-dependent Production Efficiency of an Enhanced Geothermal System (EGS): Stimulation Results and Implications for Hydraulic Fracture Treatments. Pure and Applied Geophysics, 2009, 166, 1089-1106.	0.8	42
29	Pressure-dependent Production Efficiency of an Enhanced Geothermal System (EGS): Stimulation Results and Implications for Hydraulic Fracture Treatments. , 2009, , 1089-1106.		5
30	Temperatureâ€dependent fluid substitution analysis of geothermal rocks at inâ€situ reservoir conditions. , 2008, , .		2
31	Investigation of the undrained poroelastic response of sandstones to confining pressure via laboratory experiment, numerical simulation and analytical calculation. Geological Society Special Publication, 2007, 284, 71-87.	0.8	7
32	Fluid Pressure Variation in a Sedimentary Geothermal Reservoir in the North German Basin: Case Study GroÃŸ SchÃ¶nebeck. Pure and Applied Geophysics, 2006, 163, 2141-2152.	0.8	14
33	Fluid Pressure Variation in a Sedimentary Geothermal Reservoir in the North German Basin: Case Study GroÃŸ SchÃ¶nebeck. , 2006, , 2141-2152.		1
34	Seismic Detection Limits of Small, Deep, Man-Made Reflectors: A Test at a Geothermal Site in Northern Germany. Bulletin of the Seismological Society of America, 2005, 95, 1567-1573.	1.1	3
35	Estimation of hydraulic parameters after stimulation experiments in the geothermal reservoir GroÃŸ SchÃ¶nebeck 3/90 (North-German Basin). International Journal of Rock Mechanics and Minings Sciences, 2005, 42, 1082-1087.	2.6	12
36	Hydraulic fracturing in a sedimentary geothermal reservoir: Results and implications. International Journal of Rock Mechanics and Minings Sciences, 2005, 42, 1028-1041.	2.6	152

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37	Poroelastic behaviour of physical properties in Rotliegend sandstones under uniaxial strain. International Journal of Rock Mechanics and Minings Sciences, 2005, 42, 924-932.	2.6	36
38	Stimulation experiments in sedimentary, low-enthalpy reservoirs for geothermal power generation, Germany. Geothermics, 2003, 32, 487-495.	1.5	15
39	The heat transfer in the region of the Mauna Kea (Hawaii)â€"constraints from borehole temperature measurements and coupled thermo-hydraulic modeling. Tectonophysics, 2003, 371, 23-40.	0.9	12
40	Genesis of granulite in Himalayan lower crust: Evidence from experimental study at high temperature and high pressure. Science Bulletin, 2002, 47, 448.	1.7	8
41	Experimental study on dehydration melting of natural biotite-plagioclase gneiss from High Himalayas and implications for Himalayan crust anatexis. Science Bulletin, 2001, 46, 867-871.	1.7	17
42	Alteration of seismic wave properties and fluid permeability in sandstones due to microfracturing. Physics and Chemistry of the Earth, 2000, 25, 141-147.	0.6	7
43	Thermal properties of gneisses and amphibolites â€" high pressure and high temperature investigations of KTB-rock samples. Tectonophysics, 1998, 291, 173-178.	0.9	43
44	Role of sulfur and carbon in the electrical conductivity of the middle crust. Journal of Geophysical Research, 1998, 103, 9681-9689.	3.3	13
45	Pressure dependence of permeability and Earth tide induced fluid flow. Geophysical Research Letters, 1998, 25, 809-812.	1.5	6
46	Seismic velocity, density, thermal conductivity and heat production of cores from the KTB Pilot Hole. Geophysical Research Letters, 1997, 24, 345-348.	1.5	11
47	Factors controlling the variances of seismic velocity, density, thermal conductivity and heat production of cores from the KTB Pilot Hole. Geophysical Research Letters, 1997, 24, 341-344.	1.5	7
48	The thermal regime of the crystalline continental crust: Implications from the KTB. Journal of Geophysical Research, 1997, 102, 18417-18441.	3.3	123
49	KTB and the electrical conductivity of the crust. Journal of Geophysical Research, 1997, 102, 18289-18305.	3.3	96
50	Estimating the crust permeability from fluid-injection-induced seismic emission at the KTB site. Geophysical Journal International, 1997, 131, F15-F18.	1.0	446
51	Physical parameters measured on cores and cuttings from the pilot well (0 mâ€“4000.1 m) of the German continental deep drilling program (KTB) in the Oberfalz area, Bavaria, Federal Republic of Germany. Surveys in Geophysics, 1992, 13, 1-34.	2.1	17