# 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 | Estimating the crust permeability from fluid-injection-induced seismic emission at the KTB site. Geophysical Journal International, 1997, 131, F15-F18. | 1.0 | 446 |
| 2 | 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 |
| 3 | 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 |
| 4 | Utilizing supercritical geothermal systems: a review of past ventures and ongoing research activities. Geothermal Energy, 2017, 5, . | 0.9 | 127 |
| 5 | The thermal regime of the crystalline continental crust: Implications from the KTB. Journal of Geophysical Research, 1997, 102, 18417-18441. | 3.3 | 123 |
| 6 | KTB and the electrical conductivity of the crust. Journal of Geophysical Research, 1997, 102, 18289-18305. | 3.3 | 96 |
| 7 | 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 |
| 8 | 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 |
| 9 | Hydraulic history and current state of the deep geothermal reservoir GroÃŸ SchÃ¶nebeck. Geothermics, 2016, 63, 27-43. | 1.5 | 63 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Geothermal energy systems: research perspective for domestic energy provision. Environmental Earth Sciences, 2013, 70, 3927-3933. | 1.3 | 35 |
| 16 | Geochemical and Process Engineering Challenges for Geothermal Power Generation. Chemie-Ingenieur-Technik, 2011, 83, 2093-2104. | 0.4 | 34 |
| 17 | Deep 3D thermal modelling for the city of Berlin (Germany). Environmental Earth Sciences, 2013, 70, 3545-3566. | 1.3 | 32 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Geothermal Energy: a glimpse at the state of the field and an introduction to the journal. Geothermal Energy, 2013, 1, . | 0.9 | 17 |
| 23 | Mechanically Induced Fracture-Face Skinâ€”Insights From Laboratory Testing and Modeling Approaches. SPE Production and Operations, 2013, 28, 26-35. | 0.4 | 16 |
| 24 | Stimulation experiments in sedimentary, low-enthalpy reservoirs for geothermal power generation, Germany. Geothermics, 2003, 32, 487-495. | 1.5 | 15 |
| 25 | 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 |
| 26 | Role of sulfur and carbon in the electrical conductivity of the middle crust. Journal of Geophysical Research, 1998, 103, 9681-9689. | 3.3 | 13 |
| 27 | The deep geothermal potential of the Berlin area. Environmental Earth Sciences, 2013, 70, 3567-3584. | 1.3 | 13 |
| 28 | Thermo-mechanical Properties of Upper Jurassic (Malm) Carbonate Rock Under Drained Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 23-45. | 2.6 | 13 |
| 29 | 3-D seismic exploration across the deep geothermal research platform GroÃŸ SchÃ¶nebeck north of Berlin/Germany. Geothermal Energy, 2019, 7, . | 0.9 | 13 |
| 30 | 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 |
| 31 | 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 |
| 32 | Thermal strain in a water-saturated limestone under hydrostatic and deviatoric stress states. Tectonophysics, 2016, 688, 49-64. | 0.9 | 12 |
| 33 | Geothermal exploration in a sedimentary basin: new continuous temperature data and physical rock properties from northern Oman. Geothermal Energy, 2018, 6, . | 0.9 | 12 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Geoenergy: new concepts for utilization of geo-reservoirs as potential energy sources. Environmental Earth Sciences, 2013, 70, 3427-3431. | 1.3 | 7 |
| 40 | Reverse Cleanout in a Geothermal Well: Analysis of a Failed Coiled-Tubing Operation. SPE Production and Operations, 2015, 30, 312-320. | 0.4 | 7 |
| 41 | Pressure dependence of permeability and Earth tide induced fluid flow. Geophysical Research Letters, 1998, 25, 809-812. | 1.5 | 6 |
| 42 | Soft stimulation treatment of geothermal well RV-43 to meet the growing heat demand of Reykjavik. Geothermics, 2021, 96, 102146. | 1.5 | 5 |
| 43 | Pressure-dependent Production Efficiency of an Enhanced Geothermal System (EGS): Stimulation Results and Implications for Hydraulic Fracture Treatments. , 2009, , 1089-1106. | | 5 |
| 44 | 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 |
| 45 | 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 |
| 46 | Temperatureâ€dependent fluid substitution analysis of geothermal rocks at inâ€situ reservoir conditions. , 2008, , . | | 2 |
| 47 | Deployment of Enhanced Geothermal Systems Plants and CO2 Mitigation. , 2010, , 423-428. | | 1 |
| 48 | News and analysis on materials solutions to energy challenges. MRS Bulletin, 2015, 40, 213-213. | 1.7 | 1 |
| 49 | The new Geothermal Energy: Science, Society, and Technology. Geothermal Energy, 2017, 5, . | 0.9 | 1 |
| 50 | Fluid Pressure Variation in a Sedimentary Geothermal Reservoir in the North German Basin: Case Study GroÃŸ SchÃ¶nebeck. , 2006, , 2141-2152. | | 1 |
| 51 | Balanced Reverse-Cleanout Operation: Removing Large and Heavy Particles From a Geothermal Well. SPE Production and Operations, 2017, 32, 228-237. | 0.4 | 0 |