

Christoph E Schrank

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

807
citations

567281

15
h-index

526287

27
g-index

60
all docs

60
docs citations

60
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	High-speed free-run ptychography at the Australian Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 480-487.	2.4	6
2	Cross-scale dynamic interactions in compacting porous media as a trigger to pattern formation. <i>Geophysical Journal International</i> , 2022, 230, 1280-1291.	2.4	6
3	Distribution, microphysical properties, and tectonic controls of deformation bands in the Miocene subduction wedge (Whakataki Formation) of the Hikurangi subduction zone. <i>Solid Earth</i> , 2021, 12, 141-170.	2.8	7
4	Structural and chemical resetting processes in white mica and their effect on K-Ar data during low temperature metamorphism. <i>Tectonophysics</i> , 2021, 800, 228708.	2.2	15
5	Sedimentology and stratigraphy of syn-subduction Miocene fine-grained turbidites deposited in first stages of trench-slope basin development: Whakataki Formation, North Island, New Zealand. <i>Sedimentary Geology</i> , 2021, 414, 105819.	2.1	5
6	Cross-diffusion waves resulting from multiscale, multi-physics instabilities: theory. <i>Solid Earth</i> , 2021, 12, 869-883.	2.8	12
7	Regular spacing of deformation bands in sandstone: Layer-thickness control or constitutive instability?. <i>Journal of Structural Geology</i> , 2021, 147, 104335.	2.3	2
8	Cross-diffusion waves resulting from multiscale, multiphysics instabilities: application to earthquakes. <i>Solid Earth</i> , 2021, 12, 1829-1849.	2.8	7
9	Micro-scale dissolution seams mobilise carbon in deep-sea limestones. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	6
10	The evolution of slate microfibrils during progressive accretion of foreland basin sediments. <i>Journal of Structural Geology</i> , 2021, 150, 104404.	2.3	8
11	Cross-diffusion waves in hydro-poro-mechanics. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 135, 103632.	4.8	20
12	3D modelling of the effect of thermal-elastic stress on grain-boundary opening in quartz grain aggregates. <i>Tectonophysics</i> , 2020, 774, 228242.	2.2	10
13	Tracking Metamorphic Dehydration Reactions in Real Time with Transmission Small- and Wide-Angle Synchrotron X-ray Scattering: the Case of Gypsum Dehydration. <i>Journal of Petrology</i> , 2020, 61, .	2.8	5
14	2-D finite displacements and strain from particle imaging velocimetry (PIV) analysis of tectonic analogue models with TecPIV. <i>Solid Earth</i> , 2019, 10, 1123-1139.	2.8	16
15	Rock physics for multiscale, multiphysics data assimilation from molecular to laboratory scale. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-4.	0.1	0
16	Earth's oldest stable crust in the Pilbara Craton formed by cyclic gravitational overturns. <i>Nature Geoscience</i> , 2018, 11, 357-361.	12.9	86
17	A comparative study of Maxwell viscoelasticity at large strains and rotations. <i>Geophysical Journal International</i> , 2017, 211, 252-262.	2.4	1
18	The timing of the Cape Orogeny: New $^{40}\text{Ar}/^{39}\text{Ar}$ age constraints on deformation and cooling of the Cape Fold Belt, South Africa. <i>Gondwana Research</i> , 2016, 32, 122-137.	6.0	52

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19	Lithostratigraphy and structure of the early Archaean Doolena Gap greenstone belt, East Pilbara Terrane, Western Australia. <i>Precambrian Research</i> , 2016, 282, 121-138.	2.7	20
20	Numerical simulation of a high-temperature aquifer thermal energy storage system coupled with heating and cooling of a thermal plant in a cold region, China. <i>Energy</i> , 2016, 112, 443-456.	8.8	16
21	Mapping the hydraulic connection between a coalbed and adjacent aquifer: example of the coal-seam gas resource area, north Galilee Basin, Australia. <i>Hydrogeology Journal</i> , 2016, 24, 2143-2155.	2.1	1
22	Characterization of alluvial formation by stochastic modelling of paleo-fluvial processes: The concept and method. <i>Journal of Hydrology</i> , 2015, 524, 367-377.	5.4	3
23	Deep geothermal: The "Moon Landing"™ mission in the unconventional energy and minerals space. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 2-10.	3.2	13
24	A parallel computing tool for large-scale simulation of massive fluid injection in thermo-poro-mechanical systems. <i>Philosophical Magazine</i> , 2015, 95, 3078-3102.	1.6	11
25	A brief guide to synchrotron radiation-based microtomography in (structural) geology and rock mechanics. <i>Journal of Structural Geology</i> , 2014, 65, 1-16.	2.3	93
26	Heat-producing crust regulation of subsurface temperatures: A stochastic model re-evaluation of the geothermal potential in southwestern Queensland, Australia. <i>Geothermics</i> , 2014, 51, 182-200.	3.4	6
27	A multi-scaling approach to predict hydraulic damage of poromaterials. <i>International Journal of Mechanical Sciences</i> , 2014, 78, 1-7.	6.7	24
28	Entropic Bounds for Multi-Scale and Multi-Physics Coupling in Earth Sciences. <i>Understanding Complex Systems</i> , 2014, , 323-335.	0.6	5
29	Permeability estimation conditioned to geophysical downhole log data in sandstones of the northern Galilee Basin, Queensland: Methods and application. <i>Journal of Applied Geophysics</i> , 2013, 93, 43-51.	2.1	6
30	Multiscale coupling and multiphysics approaches in earth sciences: Theory. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2013, 1, 49-73.	0.2	42
31	Multiscale coupling and multiphysics approaches in earth sciences: Applications. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2013, 1, 281-323.	0.2	34
32	Pore formation during dehydration of a polycrystalline gypsum sample observed and quantified in a time-series synchrotron X-ray micro-tomography experiment. <i>Solid Earth</i> , 2012, 3, 71-86.	2.8	49
33	Thermal-elastic stresses and the criticality of the continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	16
34	The causes of sinuous crustal-scale deformation patterns in hot orogens: Evidence from scaled analogue experiments and the southern Central Andes. <i>Journal of Structural Geology</i> , 2012, 37, 65-74.	2.3	29
35	Compaction control of topography and fault network structure along strike-slip faults in sedimentary basins. <i>Journal of Structural Geology</i> , 2010, 32, 184-191.	2.3	10
36	Role of kilometer-scale weak circular heterogeneities on upper crustal deformation patterns: Evidence from scaled analogue modeling and the Sudbury Basin, Canada. <i>Earth and Planetary Science Letters</i> , 2010, 297, 587-597.	4.4	17

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37	Power-law viscous materials for analogue experiments: New data on the rheology of highly-filled silicone polymers. <i>Journal of Structural Geology</i> , 2008, 30, 341-353.	2.3	48
38	The analogue shear zone: From rheology to associated geometry. <i>Journal of Structural Geology</i> , 2008, 30, 177-193.	2.3	40
39	Multiscaling of shear zones and the evolution of the brittle- \rightarrow -viscous transition in continental crust. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	55
40	Active learning in the time of the pandemic: Report from the eye of the storm. , 0, , .		0