

Christopher J Spiers

List of Publications by Year in descending order

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184
papers

9,243
citations

25034

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193
times ranked

4857
citing authors

#	ARTICLE	IF	CITATIONS
1	Permeability of Bituminous Coal to CH ₄ and CO ₂ Under Fixed Volume and Fixed Stress Boundary Conditions: Effects of Sorption. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	1
2	4D Synchrotron X-ray Imaging of Grain Scale Deformation Mechanisms in a Seismogenic Gas Reservoir Sandstone During Axial Compaction. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4697-4715.	5.4	4
3	Stress-Strain-Sorption Behaviour of Smectites Upon Exposure to Dry and Wet CO ₂ . <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	1
4	Impact of Chemical Environment on Compaction Behaviour of Quartz Sands during Stress-Cycling. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 981-1003.	5.4	13
5	Effects of heterogeneous gouge segments on the slip behavior of experimental faults at dm scale. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116652.	4.4	11
6	Microphysical Modeling of Carbonate Fault Friction at Slip Rates Spanning the Full Seismic Cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021024.	3.4	7
7	Seismic Slipâ€Pulse Experiments Simulate Induced Earthquake Rupture in the Groningen Gas Field. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092417.	4.0	10
8	Surface microstructures developed on polished quartz crystals embedded in wet quartz sand compacted under hydrothermal conditions. <i>Scientific Reports</i> , 2021, 11, 14920.	3.3	0
9	Effect of pore fluid chemistry on uniaxial compaction creep of Bentheim sandstone and implications for reservoir injection operations. <i>Geomechanics for Energy and the Environment</i> , 2021, 29, 100272.	2.5	6
10	Impact of downhole pressure and fluid-access on the effectiveness of wellbore cement expansion additives. <i>Cement and Concrete Research</i> , 2021, 147, 106514.	11.0	12
11	Compaction of the Groningen Gas Reservoir Sandstone: Discrete Element Modeling Using Microphysically Based Grainâ€Scale Interaction Laws. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021722.	3.4	2
12	Drill core from seismically active sandstone gas reservoir yields clues to internal deformation mechanisms. <i>Geology</i> , 2021, 49, 483-487.	4.4	3
13	Geomechanical simulation of energy storage in salt formations. <i>Scientific Reports</i> , 2021, 11, 19640.	3.3	30
14	Nucleation of Stickâ€Slip Instability Within a Largeâ€Scale Experimental Fault: Effects of Stress Heterogeneities Due to Loading and Gouge Layer Compaction. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018429.	3.4	16
15	Microphysics of Inelastic Deformation in Reservoir Sandstones from the Seismogenic Center of the Groningen Gas Field. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5301-5328.	5.4	5
16	Low Friction Coefficient of Phyllosilicate Fault Gouges and the Effect of Humidity: Insights From a New Microphysical Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018683.	3.4	7
17	Frictional properties of simulated shale-coal fault gouges: Implications for induced seismicity in source rocks below Europe's largest gas field. <i>International Journal of Coal Geology</i> , 2020, 226, 103499.	5.0	2
18	Frictional properties of actinolite-chlorite gouge at hydrothermal conditions. <i>Tectonophysics</i> , 2020, 779, 228377.	2.2	17

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19	Healing Behavior of Simulated Fault Gouges From the Groningen Gas Field and Implications for Induced Fault Reactivation. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018790.	3.4	9
20	The physics of fault friction: insights from experiments on simulated gouges at low shearing velocities. <i>Solid Earth</i> , 2020, 11, 2075-2095.	2.8	14
21	Frictional slip weakening and shear-enhanced crystallinity in simulated coal fault gouges at slow slip rates. <i>Solid Earth</i> , 2020, 11, 1399-1422.	2.8	2
22	Influence of Grain Boundary Structural Evolution on Pressure Solution Creep Rates. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10210-10230.	3.4	12
23	Nanocrystalline Principal Slip Zones and Their Role in Controlling Crustal Fault Rheology. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 328.	2.0	16
24	Impact of Chemical Environment on Compaction Creep of Quartz Sand and Possible Geomechanical Applications. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5584-5606.	3.4	9
25	Temperature and Gas/Brine Content Affect Seismogenic Potential of Simulated Fault Gouges Derived From Groningen Gas Field Caprock. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2827-2847.	2.5	11
26	Inelastic Deformation of the Slochteren Sandstone: Stress-Strain Relations and Implications for Induced Seismicity in the Groningen Gas Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5254-5282.	3.4	39
27	Frictional Properties of Simulated Chlorite Gouge at Hydrothermal Conditions: Implications for Subduction Megathrusts. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4545-4565.	3.4	43
28	Intergranular Clay Films Control Inelastic Deformation in the Groningen Gas Reservoir: Evidence From Split-Cylinder Deformation Tests. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12679-12702.	3.4	13
29	Reaction-driven casing expansion: potential for wellbore leakage mitigation. <i>Acta Geotechnica</i> , 2018, 13, 341.	5.7	8
30	Investigating Compaction by Intergranular Pressure Solution Using the Discrete Element Method. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 107-124.	3.4	23
31	Applied stress reduces swelling of coal induced by adsorption of water. <i>Geomechanics for Energy and the Environment</i> , 2018, 16, 45-63.	2.5	6
32	Deformation Behavior of Sandstones From the Seismogenic Groningen Gas Field: Role of Inelastic Versus Elastic Mechanisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5532-5558.	3.4	40
33	Frictional Properties of Subduction Input Sediments at an Erosive Convergent Continental Margin and Related Controls on Dike-Related Slip Modes: The Costa Rica Seismogenesis Project. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8385-8408.	3.4	10
34	Swelling stress development in confined smectite clays through exposure to CO ₂ . <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 49-61.	4.6	21
35	Coupling of swelling, internal stress evolution, and diffusion in coal matrix material during exposure to methane. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 844-865.	3.4	25
36	Shear localization in a mature mylonitic rock analog during fast slip. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 513-530.	2.5	12

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37	Brittle and semibrittle creep of Tavel limestone deformed at room temperature. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4436-4459.	3.4	61
38	Microphysically Derived Expressions for Rate- and State Friction Parameters, α , β , and D_c . <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9627-9657.	3.4	55
39	Frictional properties of JFAST core samples and implications for slow earthquakes at the Tohoku subduction zone. <i>Geophysical Research Letters</i> , 2017, 44, 8822-8831.	4.0	19
40	Frictional Properties of Simulated Fault Gouges from the Seismogenic Groningen Gas Field Under In Situ P-T- σ -Chemical Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8969-8989.	3.4	39
41	Friction properties and deformation mechanisms of halite(-mica) gouges from low to high sliding velocities. <i>Earth and Planetary Science Letters</i> , 2017, 458, 107-119.	4.4	20
42	Microscale cavitation as a mechanism for nucleating earthquakes at the base of the seismogenic zone. <i>Nature Communications</i> , 2017, 8, 1645.	12.8	23
43	New approaches in experimental research on rock and fault behaviour in the Groningen gas field. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017, 96, s55-s69.	0.9	22
44	The Force of Crystallization and Fracture Propagation during In-Situ Carbonation of Peridotite. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 190.	2.0	28
45	Impact of rock salt creep law choice on subsidence calculations for hydrocarbon reservoirs overlain by evaporite caprocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4249-4267.	3.4	21
46	Understanding induced seismicity. <i>Science</i> , 2016, 354, 1380-1381.	12.6	139
47	Nucleation of frictional instability caused by fluid pressurization in subducted blueschist. <i>Geophysical Research Letters</i> , 2016, 43, 2543-2551.	4.0	36
48	Effect of CO ₂ -induced reactions on the mechanical behaviour of fractured wellbore cement. <i>Geomechanics for Energy and the Environment</i> , 2016, 7, 26-46.	2.5	27
49	Frictional behaviour and transport properties of simulated fault gouges derived from a natural CO ₂ reservoir. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 70-83.	4.6	28
50	Anisotropic swelling behaviour of coal matrix cubes exposed to water vapour: Effects of relative humidity and sample size. <i>International Journal of Coal Geology</i> , 2016, 167, 119-135.	5.0	46
51	Reactive transport of CO ₂ -rich fluids in simulated wellbore interfaces: Flow-through experiments on the 16 m length scale. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 96-116.	4.6	28
52	Earthquake nucleation in weak subducted carbonates. <i>Nature Geoscience</i> , 2016, 9, 717-722.	12.9	27
53	Effect of lithostatic stress on methane sorption by coal: Theory vs. experiment and implications for predicting in-situ coalbed methane content. <i>International Journal of Coal Geology</i> , 2016, 167, 48-64.	5.0	24
54	Investigation on the permeability characteristics of bedded salt rocks and the tightness of natural gas caverns in such formations. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 468-482.	4.4	42

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55	Rate and state frictional and healing behavior of carbonate fault gouge explained using microphysical model. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8642-8665.	3.4	105
56	On sorption and swelling of CO ₂ in clays. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 111-130.	2.9	116
57	Dynamic simulation of CO ₂ -injection-induced fault rupture with slip-rate dependent friction coefficient. <i>Geomechanics for Energy and the Environment</i> , 2016, 7, 47-65.	2.5	32
58	Frictional properties of simulated anhydrite-dolomite fault gouge and implications for seismogenic potential. <i>Journal of Structural Geology</i> , 2016, 84, 31-46.	2.3	13
59	Effects of healing on the seismogenic potential of carbonate fault rocks: Experiments on samples from the Longmenshan Fault, Sichuan, China. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5479-5506.	3.4	63
60	Mechanical behavior and microstructure of simulated calcite fault gouge sheared at 20â€“600Â°C: Implications for natural faults in limestones. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8169-8196.	3.4	78
61	Creep behaviour of bischofite, carnallite and mixed bischofite-carnallite-halite salt rock. <i>Geotectonic Research</i> , 2015, 97, 15-17.	0.1	3
62	Compaction creep of simulated anhydrite fault gouge by pressure solution: theory v. experiments and implications for fault sealing. <i>Geological Society Special Publication</i> , 2015, 409, 107-124.	1.3	27
63	Thermodynamic models for swelling of unconfined coal due to adsorption of mixed gases. <i>Fuel</i> , 2015, 157, 151-161.	6.4	19
64	Interseismic re-strengthening and stabilization of carbonate faults by â€œnon-Dieterichâ€ healing under hydrothermal conditions. <i>Earth and Planetary Science Letters</i> , 2015, 423, 1-12.	4.4	58
65	Ground motions induced by a producing hydrocarbon reservoir that is overlain by a viscoelastic rock/salt layer: a numerical model. <i>Geophysical Journal International</i> , 2015, 203, 198-212.	2.4	14
66	Superplastic nanofibrous slip zones control seismogenic fault friction. <i>Science</i> , 2014, 346, 1342-1344.	12.6	109
67	The roles of quartz and water in controlling unstable slip in phyllosilicate-rich megathrust fault gouges. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	30
68	Frictional Properties and Microstructure of Calcite-Rich Fault Gouges Sheared at Sub-Seismic Sliding Velocities. <i>Pure and Applied Geophysics</i> , 2014, 171, 2617-2640.	1.9	139
69	Development of swelling strain in smectite clays through exposure to carbon dioxide. <i>International Journal of Greenhouse Gas Control</i> , 2014, 24, 149-161.	4.6	69
70	Compaction creep of sands due to timeâ€dependent grain failure: Effects of chemical environment, applied stress, and grain size. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7521-7541.	3.4	78
71	Effect of pre-existing crystallographic preferred orientation on the rheology of Carrara marble. <i>Journal of Structural Geology</i> , 2014, 68, 44-57.	2.3	4
72	The effects of lateral variations in rock composition and texture on anhydrite caprock integrity of CO ₂ storage systems. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 69, 80-92.	5.8	16

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73	Time-independent compaction behavior of quartz sands. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 936-956.	3.4	32
74	Diagenetic compaction experiments on simulated anhydrite fault gouge under static conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4123-4148.	3.4	19
75	Effects of temperature and CO ₂ on the frictional behavior of simulated anhydrite fault rock. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8728-8747.	3.4	39
76	The Green River Natural Analogue as A Field Laboratory To Study the Long-term Fate of CO ₂ in the subsurface. <i>Energy Procedia</i> , 2014, 63, 2821-2830.	1.8	23
77	A microphysical model for fault gouge friction applied to subduction megathrusts. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1510-1529.	3.4	92
78	Nanocrystalline slip zones in calcite fault gouge show intense crystallographic preferred orientation: Crystal plasticity at sub-seismic slip rates at 18±150 Å°C. <i>Geology</i> , 2013, 41, 863-866.	4.4	67
79	Reaction and transport in wellbore interfaces under CO ₂ storage conditions: Experiments simulating debonded cement-casing interfaces. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 519-529.	4.6	28
80	PoreFlow: A complex pore-network model for simulation of reactive transport in variably saturated porous media. <i>Computers and Geosciences</i> , 2013, 61, 160-174.	4.2	113
81	Crack healing in rock salt via diffusion in adsorbed aqueous films: Microphysical modelling versus experiments. <i>Physics and Chemistry of the Earth</i> , 2013, 64, 95-104.	2.9	25
82	Friction on subduction megathrust faults: Beyond the illite-muscovite transition. <i>Earth and Planetary Science Letters</i> , 2013, 373, 8-19.	4.4	64
83	Peridotite dissolution and carbonation rates at fracture surfaces under conditions relevant for in situ mineralization of CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 1-24.	3.9	34
84	Mass removal and clay mineral dehydration/rehydration in carbonate-rich surface exposures of the 2008 Wenchuan Earthquake fault: Geochemical evidence and implications for fault zone evolution and coseismic slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 474-496.	3.4	40
85	The influence of water and supercritical CO ₂ on the failure behavior of chalk. <i>Tectonophysics</i> , 2013, 599, 157-169.	2.2	43
86	Direct determination of total CO ₂ uptake by coal: A new technique compared with the manometric method. <i>Fuel</i> , 2013, 105, 192-205.	6.4	9
87	Importance of thermochemical pressurization in the dynamic weakening of the Longmenshan Fault during the 2008 Wenchuan earthquake: Inferences from experiments and modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4145-4169.	3.4	36
88	Influence of subduction zone conditions and gouge composition on frictional slip stability of megathrust faults. <i>Tectonophysics</i> , 2013, 600, 75-90.	2.2	99
89	Role of Adsorption in the Creep Behavior of Coal and Shale. , 2013, , .		3
90	Experimental evidence linking slip instability with seafloor lithology and topography at the Costa Rica convergent margin. <i>Geology</i> , 2013, 41, 891-894.	4.4	49

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91	Weakening of the slabâ€‘mantle wedge interface induced by metasomatic growth of talc. <i>Geology</i> , 2013, 41, 75-78.	4.4	53
92	Effects of interfacial energy on compaction creep by intergranular pressure solution: Theory versus experiments on a rock analog (NaNO ₃). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
93	Surface diffusivity of cleaved NaCl crystals as a function of humidity: Impedance spectroscopy measurements and implications for crack healing in rock salt. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
94	Deformation bands in porous carbonate grainstones: Field and laboratory observations. <i>Journal of Structural Geology</i> , 2012, 45, 137-157.	2.3	84
95	The effect of CO ₂ on creep of wet calcite aggregates. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
96	Pore-scale modeling of reactive transport in wellbore cement under CO ₂ storage conditions. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, S67-S77.	4.6	93
97	Fault friction and slip stability not affected by CO ₂ storage: Evidence from short-term laboratory experiments on North Sea reservoir sandstones and caprocks. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, S78-S90.	4.6	87
98	New constraints on megathrust slip stability under subduction zone P â€‘ T conditions. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 240-252.	4.4	121
99	Competition between adsorption-induced swelling and elastic compression of coal at CO ₂ pressures up to 100MPa. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1862-1882.	4.8	94
100	Microfracturing of coal due to interaction with CO ₂ under unconfined conditions. <i>Fuel</i> , 2012, 97, 569-584.	6.4	58
101	Effect of 3-D stress state on adsorption of CO ₂ by coal. <i>International Journal of Coal Geology</i> , 2012, 93, 1-15.	5.0	52
102	Frictional properties of megathrust fault gouges at low sliding velocities: New data on effects of normal stress and temperature. <i>Journal of Structural Geology</i> , 2012, 38, 156-171.	2.3	85
103	Failure behavior of single sand grains: Theory versus experiment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
104	Fracture healing and transport properties of wellbore cement in the presence of supercritical CO ₂ . <i>Chemical Geology</i> , 2011, 281, 195-210.	3.3	73
105	Effects of pore fluid flow and chemistry on compaction creep of calcite by pressure solution at 150Â°C. <i>Geofluids</i> , 2011, 11, 108-122.	0.7	15
106	Fault rocks from the SAFOD core samples: Implications for weakening at shallow depths along the San Andreas Fault, California. <i>Journal of Structural Geology</i> , 2011, 33, 132-144.	2.3	148
107	Structure and properties of loaded silica contacts during pressure solution: impedance spectroscopy measurements under hydrothermal conditions. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 501-516.	0.8	15
108	Applied stress reduces the CO ₂ sorption capacity of coal. <i>International Journal of Coal Geology</i> , 2011, 85, 128-142.	5.0	104

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109	A new experimental method to determine the CO ₂ sorption capacity of coal. Energy Procedia, 2011, 4, 3125-3130.	1.8	9
110	The mechanical behavior of anhydrite and the effect of deformation on permeability development—Implications for caprock integrity during geological storage of CO ₂ . Energy Procedia, 2011, 4, 5358-5363.	1.8	19
111	High shear strain behaviour of synthetic muscovite fault gouges under hydrothermal conditions. Journal of Structural Geology, 2010, 32, 1685-1700.	2.3	45
112	The effect of deformation on permeability development in anhydrite and implications for caprock integrity during geological storage of CO ₂ . Geofluids, 2010, 10, 369-387.	0.7	33
113	Creep of simulated reservoir sands and coupled chemical—mechanical effects of CO ₂ injection. Journal of Geophysical Research, 2010, 115, .	3.3	53
114	Mechanical behavior of anhydrite caprock and implications for CO ₂ sealing capacity. Journal of Geophysical Research, 2010, 115, .	3.3	65
115	Frictional Properties of Sedimentary Rocks and Natural Fault Gouge from the Longmen Shan Fault Zone, Sichuan, China. Bulletin of the Seismological Society of America, 2010, 100, 2767-2790.	2.3	107
116	Compaction creep of wet granular calcite by pressure solution at 28Å°C to 150Å°C. Journal of Geophysical Research, 2010, 115, .	3.3	86
117	Evidence of growth and sector zoning in hydrothermal quartz from Alpine veins. European Journal of Mineralogy, 2009, 21, 219-231.	1.3	53
118	Coastal spreading of olivine to control atmospheric CO ₂ concentrations: A critical analysis of viability. International Journal of Greenhouse Gas Control, 2009, 3, 757-767.	4.6	126
119	Failure behaviour wellbore cement in the presence of water and supercritical CO ₂ . Energy Procedia, 2009, 1, 3553-3560.	1.8	28
120	Reaction of plagioclase feldspars with CO ₂ under hydrothermal conditions. Chemical Geology, 2009, 265, 88-98.	3.3	100
121	Influence of pore fluid salt content on compaction creep of calcite aggregates in the presence of supercritical CO ₂ . Chemical Geology, 2009, 265, 134-147.	3.3	54
122	Kinetic effects of microscale plasticity at grain boundaries during pressure solution. Journal of Geophysical Research, 2009, 114, .	3.3	14
123	Electrical impedance measurement of hydrous microcrystalline quartz. Journal of Mineralogical and Petrological Sciences, 2009, 104, 176-181.	0.9	7
124	Measurements of ionic diffusivity in various rock samples: Low diffusivity through nanoscale pores. International Journal of Rock Mechanics and Minings Sciences, 2008, 45, 450-459.	5.8	11
125	Influence of grain boundary structure on dissolution controlled pressure solution and retarding effects of grain boundary healing. Journal of Geophysical Research, 2008, 113, .	3.3	45
126	Frictional behaviour of simulated quartz fault gouges under hydrothermal conditions: Results from ultra-high strain rotary shear experiments. Tectonophysics, 2008, 460, 288-303.	2.2	54

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127	Compaction of granular quartz under hydrothermal conditions: Controlling mechanisms and grain boundary processes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	29
128	Salt Dynamics. , 2008, , 248-344.		9
129	A microphysical model for strong velocity weakening in phyllosilicate-bearing fault gouges. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	152
130	Effects of orientation on the diffusive properties of fluid-filled grain boundaries during pressure solution. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 95-112.	0.8	27
131	Origin and mechanical significance of foliated cataclastic rocks in the cores of crustal-scale faults: Examples from the Median Tectonic Line, Japan. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	53
132	Velocity dependence of strength and healing behaviour in simulated phyllosilicate-bearing fault gouge. <i>Tectonophysics</i> , 2006, 427, 231-253.	2.2	144
133	Temperature dependent grain boundary migration in deformed-then-annealed material: Observations from experimentally deformed synthetic rocksalt. <i>Tectonophysics</i> , 2006, 427, 55-71.	2.2	70
134	The nature and importance of phyllonite development in crustal-scale fault cores: an example from the Median Tectonic Line, Japan. <i>Journal of Structural Geology</i> , 2006, 28, 220-235.	2.3	144
135	The influence of water on deformation microstructures and textures in synthetic NaCl measured using EBSD. <i>Journal of Structural Geology</i> , 2006, 28, 588-601.	2.3	23
136	Grain boundary populations in wet and dry NaCl. <i>Materials Science and Technology</i> , 2006, 22, 1307-1315.	1.6	9
137	Compaction of granular calcite by pressure solution at room temperature and effects of pore fluid chemistry. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 950-960.	5.8	120
138	Rheological behaviour of synthetic rocksalt: the interplay between water, dynamic recrystallization and deformation mechanisms. <i>Journal of Structural Geology</i> , 2005, 27, 948-963.	2.3	84
139	The development of subgrain misorientations with strain in dry synthetic NaCl measured using EBSD. <i>Journal of Structural Geology</i> , 2005, 27, 2159-2170.	2.3	36
140	Influence of phyllosilicates on fault strength in the brittle-ductile transition: insights from rock analogue experiments. <i>Geological Society Special Publication</i> , 2005, 245, 303-327.	1.3	92
141	Effects of phosphate ions on intergranular pressure solution in calcite: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5681-5691.	3.9	35
142	Dynamic recrystallization of wet synthetic polycrystalline halite: dependence of grain size distribution on flow stress, temperature and strain. <i>Tectonophysics</i> , 2005, 396, 35-57.	2.2	80
143	Investigation of Subgrain Rotation Recrystallization in Dry Polycrystalline NaCl. <i>Materials Science Forum</i> , 2004, 467-470, 597-602.	0.3	7
144	Dynamic Recrystallization of Dense Polycrystalline NaCl: Dependence of Grain Size Distribution on Stress and Temperature. <i>Materials Science Forum</i> , 2004, 467-470, 1187-1192.	0.3	5

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145	Microstructural Evolution of Synthetic Forsterite Aggregates Deformed to High Strain. <i>Materials Science Forum</i> , 2004, 467-470, 579-584.	0.3	4
146	Composite flow laws for crystalline materials with log-normally distributed grain size: theory and application to olivine. <i>Journal of Structural Geology</i> , 2004, 26, 1693-1705.	2.3	56
147	The influence of dynamic recrystallization on the grain size distribution and rheological behaviour of Carrara marble deformed in axial compression. <i>Geological Society Special Publication</i> , 2002, 200, 331-353.	1.3	20
148	Compaction experiments on wet calcite powder at room temperature: evidence for operation of intergranular pressure solution. <i>Geological Society Special Publication</i> , 2002, 200, 29-39.	1.3	18
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