

Demian M Saffer

List of Publications by Year in descending order

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130
papers

8,321
citations

44069

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docs citations

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times ranked

3835
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#	ARTICLE	IF	CITATIONS
1	Comparison of smectite- and illite-rich gouge frictional properties: application to the updip limit of the seismogenic zone along subduction megathrusts. <i>Earth and Planetary Science Letters</i> , 2003, 215, 219-235.	4.4	476
2	Hydrogeology and Mechanics of Subduction Zone Forearcs: Fluid Flow and Pore Pressure. <i>Annual Review of Earth and Planetary Sciences</i> , 2011, 39, 157-186.	11.0	428
3	Updip limit of the seismogenic zone beneath the accretionary prism of southwest Japan: An effect of diagenetic to low-grade metamorphic processes and increasing effective stress. <i>Geology</i> , 2001, 29, 183.	4.4	405
4	Frictional and hydrologic properties of clay-rich fault gouge. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	342
5	Laboratory observations of slow earthquakes and the spectrum of tectonic fault slip modes. <i>Nature Communications</i> , 2016, 7, 11104.	12.8	301
6	On the relation between fault strength and frictional stability. <i>Geology</i> , 2011, 39, 83-86.	4.4	278
7	Weakness of the San Andreas Fault revealed by samples from the active fault zone. <i>Nature Geoscience</i> , 2011, 4, 251-254.	12.9	235
8	Recurring and triggered slow-slip events near the trench at the Nankai Trough subduction megathrust. <i>Science</i> , 2017, 356, 1157-1160.	12.6	222
9	The frictional, hydrologic, metamorphic and thermal habitat of shallow slow earthquakes. <i>Nature Geoscience</i> , 2015, 8, 594-600.	12.9	216
10	New insights into deformation and fluid flow processes in the Nankai Trough accretionary prism: Results of Ocean Drilling Program Leg 190. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	189
11	Elevated fluid pressure and extreme mechanical weakness of a plate boundary thrust, Nankai Trough subduction zone. <i>Geology</i> , 2009, 37, 679-682.	4.4	170
12	Critically pressured free-gas reservoirs below gas-hydrate provinces. <i>Nature</i> , 2004, 427, 142-144.	27.8	167
13	Effect of hydration state on the frictional properties of montmorillonite-based fault gouge. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	154
14	Episodic fluid flow in the Nankai accretionary complex: Timescale, geochemistry, flow rates, and fluid budget. <i>Journal of Geophysical Research</i> , 1998, 103, 30351-30370.	3.3	152
15	Laboratory results indicating complex and potentially unstable frictional behavior of smectite clay. <i>Geophysical Research Letters</i> , 2001, 28, 2297-2300.	4.0	134
16	Porosity loss within the underthrust sediments of the Nankai accretionary complex: Implications for overpressures. <i>Geology</i> , 2002, 30, 19.	4.4	122
17	Slip weakening as a mechanism for slow earthquakes. <i>Nature Geoscience</i> , 2013, 6, 468-472.	12.9	121
18	Shear zones in clay-rich fault gouge: A laboratory study of fabric development and evolution. <i>Journal of Structural Geology</i> , 2013, 51, 206-225.	2.3	121

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19	Breakdown pressure and fracture surface morphology of hydraulic fracturing in shale with H ₂ O, CO ₂ and N ₂ . <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 63-76.	2.9	119
20	Smectite diagenesis, pore-water freshening, and fluid flow at the toe of the Nankai wedge. <i>Earth and Planetary Science Letters</i> , 2001, 194, 97-109.	4.4	115
21	Pore pressure development and progressive dewatering in underthrust sediments at the Costa Rican subduction margin: Comparison with northern Barbados and Nankai. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	112
22	Stress State in the Largest Displacement Area of the 2011 Tohoku-Oki Earthquake. <i>Science</i> , 2013, 339, 687-690.	12.6	112
23	Elevated pore pressure and anomalously low stress in regions of low frequency earthquakes along the Nankai Trough subduction megathrust. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	110
24	Hydrologic controls on the morphology and mechanics of accretionary wedges. <i>Geology</i> , 2002, 30, 271.	4.4	104
25	Inferred pore pressures at the Costa Rica subduction zone: implications for dewatering processes. <i>Earth and Planetary Science Letters</i> , 2000, 177, 193-207.	4.4	95
26	Slow slip source characterized by lithological and geometric heterogeneity. <i>Science Advances</i> , 2020, 6, eaay3314.	10.3	95
27	Evaluation of factors controlling smectite transformation and fluid production in subduction zones: Application to the Nankai Trough. <i>Island Arc</i> , 2008, 17, 208-230.	1.1	93
28	Frictional properties and sliding stability of the San Andreas fault from deep drill core. <i>Geology</i> , 2012, 40, 759-762.	4.4	88
29	An evaluation of factors influencing pore pressure in accretionary complexes: Implications for taper angle and wedge mechanics. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	83
30	Frictional properties of the active San Andreas Fault at SAFOD: Implications for fault strength and slip behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5273-5289.	3.4	82
31	Clay fabric intensity in natural and artificial fault gouges: Implications for brittle fault zone processes and sedimentary basin clay fabric evolution. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	80
32	Comparison of frictional strength and velocity dependence between fault zones in the Nankai accretionary complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	79
33	Hydrogeologic responses to three-dimensional temperature variability, Costa Rica subduction margin. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	76
34	Present-day principal horizontal stress orientations in the Kumano forearc basin of the southwest Japan subduction zone determined from IODP NanTroSEIZE drilling Site C0009. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	76
35	Frictional behavior of materials in the 3D SAFOD volume. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	75
36	Mechanical and hydrological effects of seamount subduction on megathrust stress and slip. <i>Nature Geoscience</i> , 2020, 13, 249-255.	12.9	74

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37	Near-field observations of an offshore <i>M_w</i> 6.0 earthquake from an integrated seafloor and subseafloor monitoring network at the Nankai Trough, southwest Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8338-8351.	3.4	71
38	Strength characteristics of Japan Trench borehole samples in the high-slip region of the 2011 Tohoku-Oki earthquake. <i>Earth and Planetary Science Letters</i> , 2015, 412, 35-41.	4.4	68
39	Tsunamigenic structures in a creeping section of the Alaska subduction zone. <i>Nature Geoscience</i> , 2017, 10, 609-613.	12.9	65
40	Fluid budgets along the northern Hikurangi subduction margin, New Zealand: the effect of a subducting seamount on fluid pressure. <i>Geophysical Journal International</i> , 2015, 202, 277-297.	2.4	62
41	Links between sediment consolidation and Cascadia megathrust slip behaviour. <i>Nature Geoscience</i> , 2017, 10, 954-959.	12.9	60
42	Escape of methane gas through sediment waves in a large methane hydrate province. <i>Geology</i> , 2002, 30, 467.	4.4	58
43	Along-strike variations in underthrust sediment dewatering on the Nicoya margin, Costa Rica related to the updip limit of seismicity. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	58
44	Consolidation and overpressure near the seafloor in the Ursa Basin, Deepwater Gulf of Mexico. <i>Earth and Planetary Science Letters</i> , 2011, 305, 11-20.	4.4	57
45	Pore pressure development beneath the décollement at the Nankai subduction zone: Implications for plate boundary fault strength and sediment dewatering. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	56
46	Down-dip variations in seismic reflection character: Implications for fault structure and seismogenic behavior in the Alaska subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7883-7904.	3.4	54
47	Frictional Mechanics of Slow Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7931-7949.	3.4	54
48	Slip-rate-dependent friction as a universal mechanism for slow slip events. <i>Nature Geoscience</i> , 2020, 13, 705-710.	12.9	51
49	Hydraulic and acoustic properties of the active Alpine Fault, New Zealand: Laboratory measurements on DFDP-1 drill core. <i>Earth and Planetary Science Letters</i> , 2014, 390, 45-51.	4.4	50
50	Anisotropy of electrical conductivity record of initial strain at the toe of the Nankai accretionary wedge. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
51	Effects of smectite to illite transformation on the frictional strength and sliding stability of intact marine mudstones. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	49
52	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
53	The State of Stress on the Fault Before, During, and After a Major Earthquake. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 49-74.	11.0	49
54	Evaluation of in situ smectite dehydration as a pore water freshening mechanism in the Nankai Trough, offshore southwest Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	47

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55	Connections between subducted sediment, pore-fluid pressure, and earthquake behavior along the Alaska megathrust. <i>Geology</i> , 2018, 46, 299-302.	4.4	47
56	Fluid budgets at convergent plate margins: Implications for the extent and duration of fault-zone dilation. <i>Geology</i> , 1999, 27, 1095.	4.4	45
57	Distribution of stress state in the Nankai subduction zone, southwest Japan and a comparison with Japan Trench. <i>Tectonophysics</i> , 2016, 692, 120-130.	2.2	45
58	Re-evaluation of heat flow data near Parkfield, CA: Evidence for a weak San Andreas Fault. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	44
59	Analysis of normal fault populations in the Kumano Forearc Basin, Nankai Trough, Japan: 1. Multiple orientations and generations of faults from 3D coherency mapping. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1989-2002.	2.5	42
60	The permeability of active subduction plate boundary faults. <i>Geofluids</i> , 2015, 15, 193-215.	0.7	39
61	Topographically driven groundwater flow and the San Andreas heat flow paradox revisited. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	36
62	Fluid flow at the toe of convergent margins: interpretation of sharp pore-water geochemical gradients. <i>Earth and Planetary Science Letters</i> , 2003, 213, 261-270.	4.4	35
63	Mixed deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand. <i>Geology</i> , 2019, 47, 872-876.	4.4	33
64	Fluid expulsion and overpressure development during initial subduction at the Costa Rica convergent margin. <i>Earth and Planetary Science Letters</i> , 2005, 233, 361-374.	4.4	31
65	12. Fault Friction and the Upper Transition from Seismic to Aseismic Faulting. , 2007, , 346-369.		30
66	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
67	Frictional properties of low-angle normal fault gouges and implications for low-angle normal fault slip. <i>Earth and Planetary Science Letters</i> , 2014, 408, 57-65.	4.4	30
68	Stiffness evolution of granular layers and the origin of repetitive, slow, stick-slip frictional sliding. <i>Granular Matter</i> , 2015, 17, 447-457.	2.2	30
69	Submarine landslide potential near the megasplay fault at the Nankai subduction zone. <i>Earth and Planetary Science Letters</i> , 2011, 312, 453-462.	4.4	28
70	Site C0002. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	28
71	Permeability of underthrust sediments at the Costa Rican subduction zone: Scale dependence and implications for dewatering. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	27
72	Analysis of normal fault populations in the Kumano forearc basin, Nankai Trough, Japan: 2. Principal axes of stress and strain from inversion of fault orientations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1973-1988.	2.5	27

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73	Determination of stress state in deep subsea formation by combination of hydraulic fracturing in situ test and core analysis: A case study in the IODP Expedition 319. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1203-1215.	3.4	25
74	Mechanical characterization of slope sediments: Constraints on in situ stress and pore pressure near the tip of the megasplay fault in the Nankai accretionary complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	24
75	In situ stress and pore pressure in the Kumano Forearc Basin, offshore SW Honshu from downhole measurements during riser drilling. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1454-1470.	2.5	23
76	A critical evaluation of crustal dehydration as the cause of an overpressured and weak San Andreas Fault. <i>Earth and Planetary Science Letters</i> , 2009, 284, 447-454.	4.4	22
77	In situ stress magnitudes at the toe of the Nankai Trough Accretionary Prism, offshore Shikoku Island, Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1202-1217.	3.4	22
78	Pressure and Stress Prediction in the Nankai Accretionary Prism: A Critical State Soil Mechanics Porosity-Based Approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1089-1115.	3.4	22
79	Permeability Evolution of Propped Artificial Fractures in Green River Shale. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 1473-1485.	5.4	21
80	Fluid budgets of subduction zone forearcs: The contribution of splay faults. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	20
81	In Situ Stress and Pore Pressure in the Deep Interior of the Nankai Accretionary Prism, Integrated Ocean Drilling Program Site C0002. <i>Geophysical Research Letters</i> , 2017, 44, 9644-9652.	4.0	20
82	Mapping fluids to subduction megathrust locking and slip behavior. <i>Geophysical Research Letters</i> , 2017, 44, 9337-9340.	4.0	20
83	The postearthquake stress state on the Tohoku megathrust as constrained by reanalysis of the JFAST breakout data. <i>Geophysical Research Letters</i> , 2017, 44, 8294-8302.	4.0	20
84	Physical Properties and Gas Hydrate at a Near-Sea-floor Thrust Fault, Hikurangi Margin, New Zealand. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088474.	4.0	20
85	Expedition 372B/375 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
86	Data report: consolidation characteristics of sediments from Sites C0002, C0006, and C0007, IODP Expeditions 315 and 316, NanTroSEIZE Stage 1. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	20
87	Scale dependence of <i>in situ</i> permeability measurements in the Nankai accretionary prism: The role of fractures. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
88	Mechanics of Fold-and-Thrust Belts Based on Geomechanical Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4454-4474.	3.4	19
89	The Effects of Shear Strain, Fabric, and Porosity Evolution on Elastic and Mechanical Properties of Clay-Rich Fault Gouge. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10968-10982.	3.4	19
90	The impact of splay faults on fluid flow, solute transport, and pore pressure distribution in subduction zones: A case study offshore the Nicoya Peninsula, Costa Rica. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1089-1104.	2.5	18

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91	Expedition 348 summary. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	18
92	Consolidation state of incoming sediments to the Nankai Trough subduction zone: Implications for sediment deformation and properties. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2821-2839.	2.5	17
93	Data report: consolidation, permeability, and fabric of sediments from the Nankai continental slope, IODP Sites C0001, C0008, and C0004. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	17
94	Heat advection by groundwater flow through a heterogeneous permeability crust: A potential cause of scatter in surface heat flow near Parkfield, California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
95	Permeability and pressure measurements in Lesser Antilles submarine slides: Evidence for pressure-driven slow-slip failure. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7986-8011.	3.4	16
96	Coupled Evolution of Deformation, Pore Fluid Pressure, and Fluid Flow in Shallow Subduction Forearcs. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019101.	3.4	16
97	Site U1518. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	16
98	Frictional and Lithological Controls on Shallow Slow Slip at the Northern Hikurangi Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	16
99	Apparent overconsolidation of mudstones in the Kumano Basin of southwest Japan: Implications for fluid pressure and fluid flow within a forearc setting. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1023-1038.	2.5	15
100	Friction experiments under in-situ stress reveal unexpected velocity-weakening in Nankai accretionary prism samples. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116180.	4.4	15
101	Effect of thermal refraction on heat flow near the San Andreas Fault, Parkfield, California. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
102	In situ stress magnitude and rock strength in the Nankai accretionary complex: a novel approach using paired constraints from downhole data in two wells. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	13
103	The action of water films at Å...-scales in the Earth: Implications for the Nankai subduction system. <i>Earth and Planetary Science Letters</i> , 2017, 463, 266-276.	4.4	13
104	Evolution of Elastic and Mechanical Properties During Fault Shear: The Roles of Clay Content, Fabric Development, and Porosity. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018612.	3.4	12
105	Experimental constraints on the relationship between clay abundance, clay fabric, and frictional behavior for the central deforming zone of the San Andreas Fault. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3865-3881.	2.5	11
106	Implications of basement rock alteration in the Nankai Trough, Japan for subduction megathrust slip behavior. <i>Tectonophysics</i> , 2020, 774, 228275.	2.2	11
107	Changes in Physical Properties of the Nankai Trough Megasplay Fault Induced by Earthquakes, Detected by Continuous Pressure Monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1072-1088.	3.4	10
108	In Situ Permeability and Scale Dependence of an Active Accretionary Prism Determined From Cross-Borehole Experiments. <i>Geophysical Research Letters</i> , 2018, 45, 6935-6943.	4.0	10

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109	Effects of temperature on the frictional behavior of material from the Alpine Fault Zone, New Zealand. <i>Tectonophysics</i> , 2019, 762, 17-27.	2.2	10
110	Expedition 358 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	10
111	Data Report: Permeability and Consolidation Properties of Subducting Sediments off Costa Rica, ODP Leg 205. , 0, , .		10
112	Evolution of permeability across the transition from brittle failure to cataclastic flow in porous siltstone. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2980-2993.	2.5	9
113	Links between clay transformation and earthquakes along the Costa Rican subduction margin. <i>Geophysical Research Letters</i> , 2017, 44, 7725-7732.	4.0	9
114	Variable In Situ Stress Orientations Across the Northern Hikurangi Subduction Margin. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091707.	4.0	8
115	Boron desorption and fractionation in <sc>S</sc>ubduction <sc>Z</sc>one <sc>F</sc>ore Arcs: Implications for the sources and transport of deep fluids. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4992-5008.	2.5	7
116	IODP Expedition 319, NanTroSEIZE Stage 2: First IODP Riser Drilling Operations and Observatory Installation Towards Understanding Subduction Zone Seismogenesis. <i>Scientific Drilling</i> , 0, 10, 4-13.	0.6	7
117	P&W&Wave Velocities of Exhumed Metasediments From the Alaskan Subduction Zone: Implications for the In Situ Conditions Along the Megathrust. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094511.	4.0	7
118	Seafloor overthrusting causes ductile fault deformation and fault sealing along the Northern Hikurangi Margin. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117651.	4.4	6
119	Fluid flow paths in the Middle America Trench and Costa Rica margin. <i>Geology</i> , 2000, 28, 679-682.	4.4	5
120	Spatial Variation of Shallow Stress Orientation Along the Hikurangi Subduction Margin: Insights From In&Situ Borehole Image Logging. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	5
121	Strength and deformation behavior of the Shimanto accretionary complex across the Nobeoka thrust. <i>Island Arc</i> , 2017, 26, e12192.	1.1	4
122	A method for determining absolute ultrasonic velocities and elastic properties of experimental shear zones. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 130, 104306.	5.8	4
123	Asymmetric Brittle Deformation at the P&aku Fault, Hikurangi Subduction Margin, NZ, IODP Expedition 375. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009662.	2.5	4
124	Data report: permeability and consolidation behavior of sediments from the northern Japan Trench subduction zone, IODP Site C0019. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	2
125	The Role of Deformation Bands in Dictating Poromechanical Properties of Unconsolidated Sand and Sandstone. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009143.	2.5	1
126	Site C0024. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1

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127	Deformation Process and Mechanism of the Frontal Megathrust at the Nankai Subduction Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	1
128	Installation of a High Sensitivity Ocean Borehole Strainmeter in the Nankai Trough Under Severe Sea Current Conditions. <i>Marine Technology Society Journal</i> , 2018, 52, 128-137.	0.4	0
129	Introduction to Theme 2: Probing the Dynamic Earth and Assessing Geohazards. <i>Oceanography</i> , 2019, 32, 78-79.	1.0	0
130	Future Opportunities in Scientific Ocean Drilling: Natural Hazards. <i>Oceanography</i> , 2019, 32, 135-135.	1.0	0