

Ylona van Dinther

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,095
citations

430874

18
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

906
citing authors

#	ARTICLE	IF	CITATIONS
1	Earthquake supercycle in subduction zones controlled by the width of the seismogenic zone. <i>Nature Geoscience</i> , 2015, 8, 471-474.	12.9	101
2	The seismic cycle at subduction thrusts: Insights from seismo-thermo-mechanical models. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 6183-6202.	3.4	100
3	Coupled, Physics-Based Modeling Reveals Earthquake Displacements are Critical to the 2018 Palu, Sulawesi Tsunami. <i>Pure and Applied Geophysics</i> , 2019, 176, 4069-4109.	1.9	96
4	The seismic cycle at subduction thrusts: 2. Dynamic implications of geodynamic simulations validated with laboratory models. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1502-1525.	3.4	81
5	Seismic behaviour of mountain belts controlled by plate convergence rate. <i>Earth and Planetary Science Letters</i> , 2018, 482, 81-92.	4.4	78
6	Bimodal seismicity in the Himalaya controlled by fault friction and geometry. <i>Nature Communications</i> , 2019, 10, 48.	12.8	78
7	An Invariant Rate- and State-Dependent Friction Formulation for Viscoelastoplastic Earthquake Cycle Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5018-5051.	3.4	64
8	Segmentation of the Main Himalayan Thrust Illuminated by Bayesian Inference of Interseismic Coupling. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086424.	4.0	58
9	Modeling the seismic cycle in subduction zones: The role and spatiotemporal occurrence of off-megathrust earthquakes. <i>Geophysical Research Letters</i> , 2014, 41, 1194-1201.	4.0	51
10	The seismic cycle at subduction thrusts: 1. Insights from laboratory models. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1483-1501.	3.4	41
11	Ensemble data assimilation for earthquake sequences: probabilistic estimation and forecasting of fault stresses. <i>Geophysical Journal International</i> , 2019, 217, 1453-1478.	2.4	40
12	Role of the overriding plate in the subduction process: Insights from numerical models. <i>Tectonophysics</i> , 2010, 484, 74-86.	2.2	36
13	Modeling Megathrust Earthquakes Across Scales: One-way Coupling From Geodynamics and Seismic Cycles to Dynamic Rupture. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11414-11446.	3.4	30
14	Community-Driven Code Comparisons for Three-Dimensional Dynamic Modeling of Sequences of Earthquakes and Aseismic Slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	27
15	Seismic and Aseismic Fault Growth Lead to Different Fault Orientations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8867-8889.	3.4	26
16	Seismo-hydro-mechanical modelling of the seismic cycle: Methodology and implications for subduction zone seismicity. <i>Tectonophysics</i> , 2020, 791, 228504.	2.2	25
17	Controls of seismogenic zone width and subduction velocity on interplate seismicity: Insights from analog and numerical models. <i>Geophysical Research Letters</i> , 2017, 44, 6082-6091.	4.0	22
18	Numerical modelling of post-seismic rupture propagation after the Sumatra 26.12.2004 earthquake constrained by GRACE gravity data. <i>Geophysical Journal International</i> , 2013, 194, 640-650.	2.4	18

#	ARTICLE	IF	CITATIONS
19	How Sediment Thickness Influences Subduction Dynamics and Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018964.	3.4	18
20	Linked 3-D modelling of megathrust earthquake-tsunami events: from subduction to tsunami run up. <i>Geophysical Journal International</i> , 2020, 224, 487-516.	2.4	17
21	Tectonics and seismicity in the Northern Apennines driven by slab retreat and lithospheric delamination. <i>Tectonophysics</i> , 2020, 789, 228481.	2.2	16
22	A Secondary Zone of Uplift Due to Megathrust Earthquakes. <i>Pure and Applied Geophysics</i> , 2019, 176, 4043-4068.	1.9	13
23	Slab Rollback Orogeny Model: A Test of Concept. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089917.	4.0	12
24	Characteristics of earthquake ruptures and dynamic off-fault deformation on propagating faults. <i>Solid Earth</i> , 2020, 11, 1333-1360.	2.8	12
25	The Role of Sediment Accretion and Buoyancy on Subduction Dynamics and Geometry. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096266.	4.0	8
26	3D Linked Subduction, Dynamic Rupture, Tsunami, and Inundation Modeling: Dynamic Effects of Supershear and Tsunami Earthquakes, Hypocenter Location, and Shallow Fault Slip. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
27	Earthquake Rupture on Multiple Splay Faults and Its Effect on Tsunamis. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	6
28	Exhumation and subduction erosion in orogenic wedges: Insights from numerical models. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	4
29	Viscoelastic Crustal Deformation Computation Method with Reduced Random Memory Accesses for GPU-Based Computers. <i>Lecture Notes in Computer Science</i> , 2018, , 31-43.	1.3	3
30	Unraveling Megathrust Seismicity. <i>Eos</i> , 2013, 94, 497-498.	0.1	1