

# Stephane Dominguez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1541923/publications.pdf>

Version: 2024-02-01

69

papers

4,154

citations

126907

33

h-index

114465

63

g-index

69

all docs

69

docs citations

69

times ranked

3717

citing authors

#	ARTICLE	IF	CITATIONS
1	Upper plate deformation associated with seamount subduction. <i>Tectonophysics</i> , 1998, 293, 207-224.	2.2	262
2	Deformation of accretionary wedges in response to seamount subduction: Insights from sandbox experiments. <i>Tectonics</i> , 2000, 19, 182-196.	2.8	247
3	Mesozoic and Cenozoic tectonic history of the central Chinese Tian Shan: Reactivated tectonic structures and active deformation. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	247
4	Experimental modelling of orogenic wedges: A review. <i>Tectonophysics</i> , 2012, 538-540, 1-66.	2.2	241
5	Submarine fault scarps in the Sea of Marmara pull-apart (North Anatolian Fault): Implications for seismic hazard in Istanbul. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, .	2.5	226
6	Magnetostratigraphy of the Yaha section, Tarim Basin (China): 11 Ma acceleration in erosion and uplift of the Tian Shan mountains. <i>Geology</i> , 2006, 34, 181.	4.4	192
7	Magnetostratigraphy and rock magnetism of the Neogene Kuitun He section (northwest China): implications for Late Cenozoic uplift of the Tianshan mountains. <i>Earth and Planetary Science Letters</i> , 2005, 230, 177-192.	4.4	175
8	Tectonic control of the subducting Juan Fernandez Ridge on the Andean margin near Valparaíso, Chile. <i>Tectonics</i> , 1997, 16, 474-488.	2.8	153
9	Direct evidence of active deformation in the eastern Indian oceanic plate. <i>Geology</i> , 1998, 26, 131.	4.4	133
10	Neogene uplift of the Tian Shan Mountains observed in the magnetic record of the Jingou River section (northwest China). <i>Tectonics</i> , 2009, 28, .	2.8	132
11	The Gibraltar subduction: A decade of new geophysical data. <i>Tectonophysics</i> , 2012, 574-575, 72-91.	2.2	109
12	Horizontal coseismic deformation of the 1999 Chi-Chi earthquake measured from SPOT satellite images: Implications for the seismic cycle along the western foothills of central Taiwan. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	108
13	The Neogene Xiyu Formation, a diachronous prograding gravel wedge at front of the Tianshan: Climatic and tectonic implications. <i>Earth and Planetary Science Letters</i> , 2009, 287, 298-310.	4.4	103
14	Miocene to present kinematics of fault-bend folding across the Huerguosi anticline, northern Tianshan (China), derived from structural, seismic, and magnetostratigraphic data. <i>Geology</i> , 2008, 36, 871.	4.4	92
15	Trench-parallel stretching and folding of forearc basins and lateral migration of the accretionary wedge in the southern Ryukyus: A case of strain partition caused by oblique convergence. <i>Tectonics</i> , 1999, 18, 231-247.	2.8	88
16	Tectonic expression of an active slab tear from high-resolution seismic and bathymetric data offshore Sicily (Ionian Sea). <i>Tectonics</i> , 2016, 35, 39-54.	2.8	82
17	Analogue modelling of the interaction between tectonics, erosion and sedimentation in foreland thrust belts. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 324-333.	1.2	73
18	Active tectonics of the Calabrian subduction revealed by new multi-beam bathymetric data and high-resolution seismic profiles in the Ionian Sea (Central Mediterranean). <i>Earth and Planetary Science Letters</i> , 2017, 461, 61-72.	4.4	73

#	ARTICLE	IF	CITATIONS
19	Arc-continent collision in Taiwan: New marine observations and tectonic evolution. , 2002, , .		67
20	Incremental growth of normal faults: Insights from a laser-equipped analog experiment. Earth and Planetary Science Letters, 2008, 273, 299-311.	4.4	66
21	Title is missing!. Marine Geophysical Researches, 1998, 20, 383-402.	1.2	61
22	Major temporal variations in shortening rate absorbed along a large active fold of the southeastern Tianshan piedmont (China). Earth and Planetary Science Letters, 2016, 434, 333-348.	4.4	61
23	Kinematics of fault-related folding derived from a sandbox experiment. Journal of Geophysical Research, 2007, 112, .	3.3	59
24	Deep structure, recent deformation and analog modeling of the Gulf of Cadiz accretionary wedge: Implications for the 1755 Lisbon earthquake. Tectonophysics, 2009, 475, 85-97.	2.2	53
25	Analogue earthquakes and seismic cycles: experimental modelling across timescales. Solid Earth, 2017, 8, 597-635.	2.8	53
26	Scaling of fault damage zones in carbonate rocks. Journal of Structural Geology, 2019, 124, 35-50.	2.3	48
27	Tectonic shortening and gravitational spreading in the Gulf of Cadiz accretionary wedge: Observations from multi-beam bathymetry and seismic profiling. Marine and Petroleum Geology, 2009, 26, 647-659.	3.3	47
28	Evidence for a 6000±km length NW↔SE-striking lineament in northern Africa: the Tibesti Lineament. Journal of the Geological Society, 2000, 157, 897-900.	2.1	45
29	A new experimental material for modeling relief dynamics and interactions between tectonics and surface processes. Tectonophysics, 2011, 513, 68-87.	2.2	44
30	Interaction between normal fault slip and erosion on relief evolution: Insights from experimental modelling. Tectonophysics, 2011, 513, 1-19.	2.2	43
31	Denudation outpaced by crustal thickening in the eastern Tianshan. Earth and Planetary Science Letters, 2017, 479, 179-191.	4.4	42
32	Experimental modelling of tectonics↔erosion↔sedimentation interactions in compressional, extensional, and strike↔slip settings. Geomorphology, 2015, 244, 146-168.	2.6	39
33	Formation of ophiolite-bearing tectono-sedimentary mÃ©langes in accretionary wedges by gravity driven submarine erosion: Insights from analogue models and case studies. Journal of Geodynamics, 2016, 100, 87-103.	1.6	38
34	Source model for the Mw 6.1, 31 March 2006, Chalan-Chulan Earthquake (Iran) from InSAR. Terra Nova, 2008, 20, 126-133.	2.1	35
35	Drainage network evolution and patterns of sedimentation in an experimental wedge. Tectonophysics, 2015, 664, 109-124.	2.2	31
36	A morphotectonic analysis of central Patagonian Cordillera: Negative inversion of the Andean belt over a buried spreading center?. Tectonics, 2010, 29, n/a-n/a.	2.8	29

#	ARTICLE	IF	CITATIONS
37	The Zandjan fault system: Morphological and tectonic evidences of a new active fault network in the NW of Iran. Tectonophysics, 2011, 506, 73-85.	2.2	29
38	Recovering paleoearthquake slip record in a highly dynamic alluvial and tectonic region (Hope Fault,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.4	29
39	â€œ3D_Fault_Offsets,â€•a Matlab Code to Automatically Measure Lateral and Vertical Fault Offsets in Topographic Data: Application to San Andreas, Owens Valley, and Hope Faults. Journal of Geophysical Research: Solid Earth, 2018, 123, 815-835.	3.4	29
40	Unbalanced sediment budgets in the catchmentâ€“alluvial fan system of the Kuitun River (northern Tian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	27
41	Paleoseismological and morphological evidence of slip rate variations along the North Tabriz fault (NW Iran). Tectonophysics, 2015, 640-641, 20-38.	2.2	27
42	Limited impact of Quaternary glaciations on denudation rates in Central Asia. Bulletin of the Geological Society of America, 2017, 129, 479-499.	3.3	27
43	Late Pleistocene acceleration of deformation across the northern Tianshan piedmont (China) evidenced from the morpho-tectonic evolution of the Dushanzi anticline. Tectonophysics, 2018, 730, 132-140.	2.2	27
44	Deformation of an experimental drainage network in oblique collision. Tectonophysics, 2016, 693, 210-222.	2.2	26
45	Post-seismic surface processes in the Jiufengershan landslide area, 1999 Chi-Chi earthquake epicentral zone, Taiwan. Engineering Geology, 2006, 86, 102-117.	6.3	23
46	Present-day interseismic surface deformation along the Longitudinal Valley, eastern Taiwan, from a PS-InSAR analysis of the ERS satellite archives. Journal of Geophysical Research, 2011, 116, .	3.3	23
47	Coseismic slip resolution and post-seismic relaxation time of the 1999 Chi-Chi, Taiwan, earthquake as constrained by geological observations, geodetic measurements and seismicity. Geophysical Journal International, 2004, 158, 310-326.	2.4	21
48	Landscape â€“stressâ€™ and reorganization from <i>Ï†</i>â€“maps: Insights from experimental drainage networks in oblique collision setting. Earth Surface Processes and Landforms, 2018, 43, 3152-3163.	2.5	21
49	Repeated giant earthquakes on the Wairarapa fault, New Zealand, revealed by Lidar-based paleoseismology. Scientific Reports, 2020, 10, 2124.	3.3	19
50	The last spreading episode of the West Philippine Basin revisited. Geophysical Research Letters, 1999, 26, 2073-2076.	4.0	18
51	A new multilayered visco-elasto-plastic experimental model to study strike-slip fault seismic cycle. Tectonics, 2015, 34, 232-264.	2.8	18
52	Modelling of drainage dynamics influence on sediment routing system in a foldâ€“andâ€“thrust belt. Basin Research, 2019, 31, 290-310.	2.7	18
53	Structural and tectono-stratigraphic review of the Sicilian orogen and new insights from analogue modeling. Earth-Science Reviews, 2020, 208, 103257.	9.1	18
54	Deformation partitioning in mountain belts: insights from analogue modelling experiments and the Taiwan collisional orogen. Geological Magazine, 2021, 158, 84-103.	1.5	18

#	ARTICLE	IF	CITATIONS
55	Impact of erosion and décollements on large-scale faulting and folding in orogenic wedges: analogue models and case studies. <i>Journal of the Geological Society</i> , 2013, 170, 893-904.	2.1	17
56	Relationships between along-fault heterogeneous normal stress and fault slip patterns during the seismic cycle: Insights from a strike-slip fault laboratory model. <i>Earth and Planetary Science Letters</i> , 2017, 480, 147-157.	4.4	17
57	Active-couple indentation in geodynamics of NNW Iran: Evidence from synchronous left- and right-lateral co-linear seismogenic faults in western Alborz and Iranian Azerbaijan domains. <i>Tectonophysics</i> , 2019, 754, 1-17.	2.2	15
58	Late Miocene to Quaternary slip history across the Qiulitag anticline in the southern Tianshan piedmont. <i>Terra Nova</i> , 2020, 32, 89-96.	2.1	14
59	Automatic Fault Mapping in Remote Optical Images and Topographic Data With Deep Learning. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021269.	3.4	11
60	Tectonic Inversion and Geomorphic Evolution of the Algerian Margin Since Messinian Times: Insights From New Onshore/Offshore Analog Modeling Experiments. <i>Tectonics</i> , 2021, 40, e2020TC006369.	2.8	10
61	A ¼ 3000 years-old sequence of extreme events revealed by marine and shore deposits east of Taiwan. <i>Tectonophysics</i> , 2016, 692, 325-341.	2.2	9
62	Nonlinear fault damage zone scaling revealed through analog modeling. <i>Geology</i> , 0, , .	4.4	9
63	Deep Origin of the Dome-Shaped Hyblean Plateau, Southeastern Sicily: A New Tectono-Magmatic Model. <i>Tectonics</i> , 2019, 38, 4488-4515.	2.8	8
64	Stratigraphic architecture and fault offsets of alluvial terraces at Te Marua, Wellington fault, New Zealand, revealed by pseudo-3D GPR investigation. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4564-4585.	3.4	7
65	Historical Reconstruction of Submarine Earthquakes Using <sup>210</sup> Pb, <sup>137</sup> Cs, and <sup>241</sup> Am Turbidite Chronology and Radiocarbon Reservoir Age Estimation off East Taiwan. <i>Radiocarbon</i> , 2016, 58, 25-36.	1.8	7
66	Strike-Slip Faulting in the Calabrian Accretionary Wedge: Using Analog Modeling to Test the Kinematic Boundary Conditions of Geodynamic Models. , 2019, , 321-337.		6
67	Validation of a Multilayered Analog Model Integrating Crust-Mantle Visco-Elastic Coupling to Investigate Subduction Megathrust Earthquake Cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020342.	3.4	5
68	Morphotectonic Evolution of an Alluvial Fan: Results of a Joint Analog and Numerical Modeling Approach. <i>Geosciences (Switzerland)</i> , 2021, 11, 412.	2.2	3
69	Present-Day Surface Deformation of Sicily Derived From Sentinel-1 InSAR Time-Series. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	1