

Clement Narteau

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,309
citations

201674

27
h-index

233421

45
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88
all docs

88
docs citations

88
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristic slip for five great earthquakes along the Fuyun fault in China. <i>Nature Geoscience</i> , 2011, 4, 389-392.	12.9	170
2	Two modes for dune orientation. <i>Geology</i> , 2014, 42, 743-746.	4.4	142
3	Common dependence on stress for the two fundamental laws of statistical seismology. <i>Nature</i> , 2009, 462, 642-645.	27.8	124
4	Morphology and dynamics of star dunes from numerical modelling. <i>Nature Geoscience</i> , 2012, 5, 463-467.	12.9	107
5	Setting the length and time scales of a cellular automaton dune model from the analysis of superimposed bed forms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	87
6	Emergence of oblique dunes in a landscape-scale experiment. <i>Nature Geoscience</i> , 2014, 7, 99-103.	12.9	86
7	Temporal limits of the power law aftershock decay rate. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 12-1-ESE 12-14.	3.3	72
8	Global mapping and characterization of Titan's dune fields with Cassini: Correlation between RADAR and VIMS observations. <i>Icarus</i> , 2014, 230, 168-179.	2.5	68
9	Morphodynamics of barchan and transverse dunes using a cellular automaton model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
10	Phase diagrams of dune shape and orientation depending on sand availability. <i>Scientific Reports</i> , 2015, 5, 14677.	3.3	57
11	Growth mechanisms and dune orientation on Titan. <i>Geophysical Research Letters</i> , 2014, 41, 6093-6100.	4.0	52
12	Methane storms as a driver of Titan's dune orientation. <i>Nature Geoscience</i> , 2015, 8, 362-366.	12.9	52
13	Sediment flux from the morphodynamics of elongating linear dunes. <i>Geology</i> , 2015, 43, 1027-1030.	4.4	52
14	Development and steady states of transverse dunes: A numerical analysis of dune pattern coarsening and giant dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2200-2219.	2.8	49
15	Scaling organization of fracture tectonics (SOFT) and earthquake mechanism. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 92, 215-233.	1.9	48
16	Bayesian analysis of the modified Omori law. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
17	Migrating pattern of deformation prior to the Tohoku-Oki earthquake revealed by GRACE data. <i>Nature Geoscience</i> , 2018, 11, 367-373.	12.9	48
18	Depth dependent stress revealed by aftershocks. <i>Nature Communications</i> , 2017, 8, 1317.	12.8	45

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19	Dual simulations of fluid flow and seismic wave propagation in a fractured network: effects of pore pressure on seismic signature. <i>Geophysical Journal International</i> , 2006, 166, 825-838.	2.4	44
20	Combining earthquake forecasts using differential probability gains. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	43
21	A real-space cellular automaton laboratory. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 98-109.	2.5	38
22	Numerical simulation of wave propagation in 2-D fractured media: scattering attenuation at different stages of the growth of a fracture population. <i>Geophysical Journal International</i> , 2007, 171, 865-880.	2.4	37
23	Unravelling raked linear dunes to explain the coexistence of bedforms in complex dunefields. <i>Nature Communications</i> , 2017, 8, 14239.	12.8	36
24	Multiscale Mapping of Completeness Magnitude of Earthquake Catalogs. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 2188-2202.	2.3	32
25	Measuring bedload in gravel-bed mountain rivers: averaging methods and sampling strategies. <i>Geodinamica Acta</i> , 2008, 21, 81-92.	2.2	30
26	Break of slope in earthquake size distribution and creep rate along the San Andreas Fault system. <i>Geophysical Research Letters</i> , 2016, 43, 6869-6875.	4.0	29
27	Mean sediment residence time in barchan dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 451-463.	2.8	28
28	Earthquake productivity law. <i>Geophysical Journal International</i> , 2020, 222, 1264-1269.	2.4	28
29	Emergence of a band-limited power law in the aftershock decay rate of a slider-block model. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	26
30	Nature-Based Solution along High-Energy Eroding Sandy Coasts: Preliminary Tests on the Reinstatement of Natural Dynamics in Reprofiled Coastal Dunes. <i>Water (Switzerland)</i> , 2019, 11, 2518.	2.7	25
31	On a small-scale roughness of the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2001, 191, 49-60.	4.4	24
32	Short-Term Earthquake Forecasting Using Early Aftershock Statistics. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 297-312.	2.3	23
33	Incipient bedforms in a bidirectional wind regime. <i>Journal of Fluid Mechanics</i> , 2019, 862, 490-516.	3.4	23
34	Common dependence on stress for the statistics of granular avalanches and earthquakes. <i>Scientific Reports</i> , 2015, 5, 12280.	3.3	22
35	Elongation and Stability of a Linear Dune. <i>Geophysical Research Letters</i> , 2019, 46, 14521-14530.	4.0	22
36	Morphodynamics of barchan and dome dunes under variable wind regimes. <i>Geology</i> , 2018, 46, 743-746.	4.4	21

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37	Erosion rates deduced from seasonal mass balance along the upper Urumqi River in Tianshan. <i>Solid Earth</i> , 2011, 2, 283-301.	2.8	20
38	Direct simulations of the stress redistribution in the scaling organization of fracture tectonics (SOFT) model. <i>Geophysical Journal International</i> , 2000, 141, 115-135.	2.4	19
39	Onset of power law aftershock decay rates in southern California. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	19
40	From Alarm-Based to Rate-Based Earthquake Forecast Models. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 64-72.	2.3	18
41	Observational evidence for active dust storms on Titan at equinox. <i>Nature Geoscience</i> , 2018, 11, 727-732.	12.9	18
42	Spatial and Temporal Development of Incipient Dunes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088919.	4.0	18
43	Controls on and effects of armoring and vertical sorting in aeolian dune fields: A numerical simulation study. <i>Geophysical Research Letters</i> , 2016, 43, 2614-2622.	4.0	17
44	The Grain-size Patchiness of Braided Gravel-Bed Streams – example of the Urumqi River (northeast Tian) Tj ETQq0,0,0 rgBT /Overlock I	12.0	17
45	Loading rates in California inferred from aftershocks. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 245-263.	1.3	16
46	Multiple scale dynamo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 5510-5514.	7.1	15
47	Direct validation of dune instability theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
48	Periodicity in fields of elongating dunes. <i>Geology</i> , 2020, 48, 343-347.	4.4	15
49	First quantification of relationship between dune orientation and sediment availability, Olympia Undae, Mars. <i>Earth and Planetary Science Letters</i> , 2018, 489, 241-250.	4.4	14
50	Laboratory Modeling of Aftershock Sequences: Stress Dependences of the Omori and Gutenberg-Richter Parameters. <i>Izvestiya, Physics of the Solid Earth</i> , 2019, 55, 124-137.	0.9	14
51	Dissipation at the core-mantle boundary on a small-scale topography. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	13
52	Formation and evolution of a population of strike-slip faults in a multiscale cellular automaton model. <i>Geophysical Journal International</i> , 2007, 168, 723-744.	2.4	12
53	Morphodynamic mechanisms for the formation of asymmetric barchans: improvement of the Bagnold and Tsoar models. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	12
54	Up and down cascade in a dynamo model: Spontaneous symmetry breaking. <i>Physical Review E</i> , 1999, 59, 5112-5123.	2.1	11

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55	Reversal sequence in a multiple scale dynamo mechanism. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 120, 271-287.	1.9	11
56	Gravimetric and magnetic anomalies produced by dissolution–crystallization at the core–mantle boundary. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5983-6000.	3.4	10
57	Energetic balance in scaling organization of fracture tectonics. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 106, 139-153.	1.9	9
58	Temporal properties of seismicity and largest earthquakes in SE Carpathians. <i>Nonlinear Processes in Geophysics</i> , 2006, 13, 629-639.	1.3	9
59	Uniform grain-size distribution in the active layer of a shallow, gravel-bedded, braided river (the Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	8
60	Migration of Reversing Dunes Against the Sand Flow Path as a Singular Expression of the Speed–Up Effect. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005913.	2.8	8
61	Transient evolution regimes in a multiscale dynamo model: Timescales of the reversal mechanism. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	7
62	Source–to–Sink Aeolian Fluxes From Arid Landscape Dynamics in the Lut Desert. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
63	The oscillatory nature of the geomagnetic field during reversals. <i>Earth and Planetary Science Letters</i> , 2007, 262, 66-76.	4.4	6
64	Transport capacity and saturation mechanism in a real-space cellular automaton dune model. <i>Advances in Geosciences</i> , 0, 37, 47-55.	12.0	6
65	Epidemic type aftershock sequence exponential productivity. <i>Russian Journal of Earth Sciences</i> , 2019, 19, 1-8.	0.7	6
66	Modeling and Prediction of Aftershock Activity. <i>Surveys in Geophysics</i> , 2022, 43, 437-481.	4.6	6
67	Classification of seismic patterns in a hierarchical model of rupture: a new phase diagram for seismicity. <i>Geophysical Journal International</i> , 2007, 168, 710-722.	2.4	5
68	Condition of Occurrence of Large Man-Made Earthquakes in the Zone of Oil Production, Oklahoma. <i>Izvestiya, Physics of the Solid Earth</i> , 2020, 56, 911-919.	0.9	5
69	Coarsening Dynamics of 2D Subaqueous Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	5
70	Texture and Composition of Titan's Equatorial Sand Seas Inferred From Cassini SAR Data: Implications for Aeolian Transport and Dune Morphodynamics. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3140-3163.	3.6	3
71	Numerical study of scattering attenuation in fractured media: The effects of scalelength on multiple scattering attenuation. , 2003, , .		3
72	Dependences of the Omori and Gutenberg–Richter parameters. , 2019, , 149-165.	0.1	3

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73	Near-surface structure of a large linear dune and an associated crossing dune of the northern Namib Sand Sea from Ground Penetrating Radar: Implications for the history of large linear dunes on Earth and Titan. <i>Aeolian Research</i> , 2022, 57, 100813.	2.7	3
74	Coexistence of Two Dune Growth Mechanisms in a Landscape-scale Experiment. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
75	Star Dune. , 2014, , 1-5.		0
76	Multiple Scale Dynamo. <i>Fluid Mechanics and Its Applications</i> , 1998, , 469-470.	0.2	0
77	Star Dune. , 2015, , 2052-2055.		0