

Nathalie M Vriend

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

295
citations

933447

10
h-index

888059

17
g-index

24
all docs

24
docs citations

24
times ranked

363
citing authors

#	ARTICLE	IF	CITATIONS
1	Coarsening Dynamics of 2D Subaqueous Dunes. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	5
2	Confronting Grand Challenges in environmental fluid mechanics. Physical Review Fluids, 2021, 6, .	2.5	37
3	Stability of the Interaction between Two Sand Dunes in an Idealized Laboratory Experiment. Physical Review Letters, 2021, 127, 154501.	7.8	4
4	Dynamics of migrating sand dunes interacting with obstacles. Physical Review Fluids, 2021, 6, .	2.5	6
5	Blowinâ€™ in the Wind Same as Flowing in H ₂ O. Physics Magazine, 2020, 13, .	0.1	1
6	Wake Induced Long Range Repulsion of Aqueous Dunes. Physical Review Letters, 2020, 124, 054501.	7.8	18
7	Photoelastic study of dense granular free-surface flows. Physical Review E, 2019, 100, 012902.	2.1	11
8	Sensitivity to the rheology and geometry of granular collapses by using the $\hat{\mu}(I)$ rheology. Computers and Fluids, 2019, 191, 104260.	2.5	8
9	The granular Blasius problem. Journal of Fluid Mechanics, 2019, 872, 784-817.	3.4	7
10	Force fluctuations at the transition from quasi-static to inertial granular flow. Soft Matter, 2019, 15, 8532-8542.	2.7	18
11	Interaction between the Blasius boundary layer and a free surface. Journal of Fluid Mechanics, 2018, 839, .	3.4	4
12	Between a ripple and a dune. Nature Physics, 2018, 14, 641-642.	16.7	3
13	Seismic Ground Roll Absorption and Reemission by Sand Dunes. Journal of Geophysical Research: Solid Earth, 2018, 123, 5675-5689.	3.4	0
14	Flow of buoyant granular materials along a free surface. Journal of Fluid Mechanics, 2018, 848, 312-339.	3.4	3
15	Intermittency between avalanche regimes on grain piles. Physical Review E, 2018, 97, 060901.	2.1	3
16	Comparing dune migration measured from remote sensing with sand flux prediction based on weather data and model, a test case in Qatar. Earth and Planetary Science Letters, 2018, 497, 12-21.	4.4	28
17	Slip-stick excitation and travelling waves excite silo honking. EPJ Web of Conferences, 2017, 140, 10009.	0.3	0
18	Linear and nonlinear wave propagation in booming sand dunes. Physics of Fluids, 2015, 27, 103305.	4.0	5

#	ARTICLE	IF	CITATIONS
19	Two-dimensional radar imaging of flowing avalanches. Cold Regions Science and Technology, 2014, 102, 41-51.	3.5	14
20	High-resolution radar measurements of snow avalanches. Geophysical Research Letters, 2013, 40, 727-731.	4.0	40
21	Sedimentary structure of large sand dunes: examples from Dumont and Eureka dunes, California. Geophysical Journal International, 2012, 190, 981-992.	2.4	12
22	The waveguide theory for booming sand dunes. , 2010, , .		0
23	Booming Sand Dunes. Annual Review of Earth and Planetary Sciences, 2010, 38, 281-301.	11.0	19
24	Determination of the viscoelastic properties of elastomeric materials by the dynamic indentation method. Polymer Testing, 2004, 23, 369-375.	4.8	49