

# Nathalie M Vriend

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3092557/publications.pdf>

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	Determination of the viscoelastic properties of elastomeric materials by the dynamic indentation method. <i>Polymer Testing</i> , 2004, 23, 369-375.	4.8	49
2	High-resolution radar measurements of snow avalanches. <i>Geophysical Research Letters</i> , 2013, 40, 727-731.	4.0	40
3	Confronting Grand Challenges in environmental fluid mechanics. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	37
4	Comparing dune migration measured from remote sensing with sand flux prediction based on weather data and model, a test case in Qatar. <i>Earth and Planetary Science Letters</i> , 2018, 497, 12-21.	4.4	28
5	Booming Sand Dunes. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 281-301.	11.0	19
6	Force fluctuations at the transition from quasi-static to inertial granular flow. <i>Soft Matter</i> , 2019, 15, 8532-8542.	2.7	18
7	Wake Induced Long Range Repulsion of Aqueous Dunes. <i>Physical Review Letters</i> , 2020, 124, 054501.	7.8	18
8	Two-dimensional radar imaging of flowing avalanches. <i>Cold Regions Science and Technology</i> , 2014, 102, 41-51.	3.5	14
9	Sedimentary structure of large sand dunes: examples from Dumont and Eureka dunes, California. <i>Geophysical Journal International</i> , 2012, 190, 981-992.	2.4	12
10	Photoelastic study of dense granular free-surface flows. <i>Physical Review E</i> , 2019, 100, 012902.	2.1	11
11	Sensitivity to the rheology and geometry of granular collapses by using the $\hat{1}/4(l)$ rheology. <i>Computers and Fluids</i> , 2019, 191, 104260.	2.5	8
12	The granular Blasius problem. <i>Journal of Fluid Mechanics</i> , 2019, 872, 784-817.	3.4	7
13	Dynamics of migrating sand dunes interacting with obstacles. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6
14	Linear and nonlinear wave propagation in booming sand dunes. <i>Physics of Fluids</i> , 2015, 27, 103305.	4.0	5
15	Coarsening Dynamics of 2D Subaqueous Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	5
16	Interaction between the Blasius boundary layer and a free surface. <i>Journal of Fluid Mechanics</i> , 2018, 839, .	3.4	4
17	Stability of the Interaction between Two Sand Dunes in an Idealized Laboratory Experiment. <i>Physical Review Letters</i> , 2021, 127, 154501.	7.8	4
18	Between a ripple and a dune. <i>Nature Physics</i> , 2018, 14, 641-642.	16.7	3

#	ARTICLE	IF	CITATIONS
19	Flow of buoyant granular materials along a free surface. Journal of Fluid Mechanics, 2018, 848, 312-339.	3.4	3
20	Intermittency between avalanche regimes on grain piles. Physical Review E, 2018, 97, 060901.	2.1	3
21	Blowinâ€™ in the Wind Same as Flowing in H <sub>2</sub> O. Physics Magazine, 2020, 13, .	0.1	1
22	The waveguide theory for booming sand dunes. , 2010, , .		0
23	Slip-stick excitation and travelling waves excite silo honking. EPJ Web of Conferences, 2017, 140, 10009.	0.3	0
24	Seismic Ground Roll Absorption and Reemission by Sand Dunes. Journal of Geophysical Research: Solid Earth, 2018, 123, 5675-5689.	3.4	0