

# Marie Dumont

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,882  
citations

218677

26  
h-index

276875

41  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2343  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-Ray Tomography-Based Microstructure Representation in the Snow Microwave Radiative Transfer Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	6
2	On the energy budget of a low-Arctic snowpack. Cryosphere, 2022, 16, 127-142.	3.9	8
3	Propagating information from snow observations with CrocO ensemble data assimilation system: a 10-years case study over a snow depth observation network. Cryosphere, 2022, 16, 1281-1298.	3.9	6
4	Induction of spontaneous human neocentromere formation and long-term maturation. Journal of Cell Biology, 2021, 220, .	5.2	27
5	Fractional snow-covered area: scale-independent peak of winter parameterization. Cryosphere, 2021, 15, 615-632.	3.9	10
6	CrocO_v1.0: a particle filter to assimilate snowpack observations in a spatialised framework. Geoscientific Model Development, 2021, 14, 1595-1614.	3.6	17
7	Experimental and model-based investigation of the links between snow bidirectional reflectance and snow microstructure. Cryosphere, 2021, 15, 3921-3948.	3.9	11
8	Brief communication: Evaluation of the snow cover detection in the Copernicus High Resolution Snow & Ice Monitoring Service. Cryosphere, 2021, 15, 4975-4980.	3.9	9
9	A versatile method for computing optimized snow albedo from spectrally fixed radiative variables: VALHALLA v1.0. Geoscientific Model Development, 2021, 14, 7329-7343.	3.6	0
10	Human chromosome-specific aneuploidy is influenced by $\langle \text{scp} \rangle \text{DNA}$ independent centromeric features. EMBO Journal, 2020, 39, e102924.	7.8	79
11	Random forests as a tool to understand the snow depth distribution and its evolution in mountain areas. Hydrological Processes, 2020, 34, 5384-5401.	2.6	17
12	Spectral albedo measurements over snow-covered slopes: theory and slope effect corrections. Cryosphere, 2020, 14, 1497-1517.	3.9	37
13	A genetic memory initiates the epigenetic loop necessary to preserve centromere position. EMBO Journal, 2020, 39, e105505.	7.8	26
14	Snow albedo sensitivity to macroscopic surface roughness using a new ray-tracing model. Cryosphere, 2020, 14, 1651-1672.	3.9	20
15	Snow depth mapping from stereo satellite imagery in mountainous terrain: evaluation using airborne laser-scanning data. Cryosphere, 2020, 14, 2925-2940.	3.9	52
16	Simulating optical top-of-atmosphere radiance satellite images over snow-covered rugged terrain. Cryosphere, 2020, 14, 3995-4020.	3.9	11
17	Quantification of the radiative impact of light-absorbing particles during two contrasted snow seasons at Col du Lautaret (2058 m a.s.l., French Alps). Cryosphere, 2020, 14, 4553-4579.	3.9	26
18	Snow depth variability in the Northern Hemisphere mountains observed from space. Nature Communications, 2019, 10, 4629.	12.8	180

#	ARTICLE	IF	CITATIONS
19	Influence of light-absorbing particles on snow spectral irradiance profiles. <i>Cryosphere</i> , 2019, 13, 2169-2187.	3.9	31
20	Motion of dust particles in dry snow under temperature gradient metamorphism. <i>Cryosphere</i> , 2019, 13, 2345-2359.	3.9	14
21	57 years (1960–2017) of snow and meteorological observations from a mid-altitude mountain site (Col) Tj ETQq1 0.784314 rgB	9.9	30
22	Meteorological and evaluation datasets for snow modelling at 10 reference sites: description of in situ and bias-corrected reanalysis data. <i>Earth System Science Data</i> , 2019, 11, 865-880.	9.9	36
23	Review of Snow Data Assimilation Methods for Hydrological, Land Surface, Meteorological and Climate Models: Results from a COST HarmoSnow Survey. <i>Geosciences (Switzerland)</i> , 2018, 8, 489.	2.2	35
24	Radiative forcing by light-absorbing particles in snow. <i>Nature Climate Change</i> , 2018, 8, 964-971.	18.8	216
25	Snow physical properties may be a significant determinant of lemming population dynamics in the high Arctic. <i>Arctic Science</i> , 2018, 4, 813-826.	2.3	38
26	Monitoring glacier albedo as a proxy to derive summer and annual surface mass balances from optical remote-sensing data. <i>Cryosphere</i> , 2018, 12, 271-286.	3.9	30
27	Technical note: A low-cost albedometer for snow and ice measurements – theoretical results and application on a tropical mountain in Bolivia. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2018, 7, 169-178.	1.6	3
28	Multi-Criteria Evaluation of Snowpack Simulations in Complex Alpine Terrain Using Satellite and In Situ Observations. <i>Remote Sensing</i> , 2018, 10, 1171.	4.0	22
29	Relative performance of empirical and physical models in assessing the seasonal and annual glacier surface mass balance of Saint-Sorlin Glacier (French Alps). <i>Cryosphere</i> , 2018, 12, 1367-1386.	3.9	28
30	The VIS/NIR Land and Snow BRDF Atlas for RTTOV: Comparison between MODIS MCD43C1 C5 and C6. <i>Remote Sensing</i> , 2018, 10, 21.	4.0	7
31	An Assessment of Existing Methodologies to Retrieve Snow Cover Fraction from MODIS Data. <i>Remote Sensing</i> , 2018, 10, 619.	4.0	58
32	On the reflectance spectroscopy of snow. <i>Cryosphere</i> , 2018, 12, 2371-2382.	3.9	53
33	A daytime VIIRS RGB pseudo composite for snow detection. <i>Remote Sensing of Environment</i> , 2017, 196, 134-139.	11.0	1
34	In situ continuous visible and near-infrared spectroscopy of an alpine snowpack. <i>Cryosphere</i> , 2017, 11, 1091-1110.	3.9	43
35	A multiphysical ensemble system of numerical snow modelling. <i>Cryosphere</i> , 2017, 11, 1173-1198.	3.9	74
36	Annual and Seasonal Glacier-Wide Surface Mass Balance Quantified from Changes in Glacier Surface State: A Review on Existing Methods Using Optical Satellite Imagery. <i>Remote Sensing</i> , 2017, 9, 507.	4.0	25

#	ARTICLE	IF	CITATIONS
37	A multilayer physically based snowpack model simulating direct and indirect radiative impacts of light-absorbing impurities in snow. <i>Cryosphere</i> , 2017, 11, 2633-2653.	3.9	61
38	Reconstructing the mass balance of Brewster Glacier, New Zealand, using MODIS-derived glacier-wide albedo. <i>Cryosphere</i> , 2016, 10, 2465-2484.	3.9	34
39	Phase relationships between orbital forcing and the composition of air trapped in Antarctic ice cores. <i>Climate of the Past</i> , 2016, 12, 729-748.	3.4	13
40	A 7-year dataset for driving and evaluating snow models at an Arctic site (Sodankylä, Finland). <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 219-227.	1.6	32
41	CENP-A Is Dispensable for Mitotic Centromere Function after Initial Centromere/Kinetochore Assembly. <i>Cell Reports</i> , 2016, 17, 2394-2404.	6.4	89
42	On the assimilation of optical reflectances and snow depth observations into a detailed snowpack model. <i>Cryosphere</i> , 2016, 10, 1021-1038.	3.9	50
43	Development and calibration of an automatic spectral albedometer to estimate near-surface snow SSA time series. <i>Cryosphere</i> , 2016, 10, 1297-1316.	3.9	50
44	Snowpack modelling in the Pyrenees driven by kilometric-resolution meteorological forecasts. <i>Cryosphere</i> , 2016, 10, 1571-1589.	3.9	48
45	Recent glacier decline in the Kerguelen Islands (49°S, 69°E) derived from modeling, field observations, and satellite data. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 637-654.	2.8	17
46	Experimental determination of the absorption enhancement parameter of snow. <i>Journal of Glaciology</i> , 2014, 60, 714-724.	2.2	45
47	Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland. <i>Remote Sensing of Environment</i> , 2014, 140, 118-129.	11.0	51
48	Improved characterisation of sea ice using simultaneous aerial photography and sea ice thickness measurements. <i>Cold Regions Science and Technology</i> , 2013, 92, 37-47.	3.5	20
49	Small-scale horizontal variability of snow, sea-ice thickness and freeboard in the first-year ice region north of Svalbard. <i>Annals of Glaciology</i> , 2013, 54, 261-266.	1.4	18
50	Variational assimilation of albedo in a snowpack model and reconstruction of the spatial mass-balance distribution of an alpine glacier. <i>Journal of Glaciology</i> , 2012, 58, 151-164.	2.2	41
51	Modeling an extreme dust deposition event to the French alpine seasonal snowpack in April 2018: Meteorological context and predictions of dust deposition. <i>Journal of Geophysical Research D: Atmospheres</i> , 0, , .	3.3	2