

# Pascal Allemand

## List of Publications by Year in descending order

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90  
papers

4,086  
citations

94433

37  
h-index

118850

62  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast exhumation rate during late orogenic extension: The new timing of the Pilat detachment fault (French Massif Central, Variscan belt). <i>Gondwana Research</i> , 2022, 103, 260-275.	6.0	6
2	Oxia Planum: The Landing Site for the ExoMars "Rosalind Franklin" Rover Mission: Geological Context and Prelanding Interpretation. <i>Astrobiology</i> , 2021, 21, 345-366.	3.0	84
3	Shallow-water hydrothermalism at Milos (Greece): Nature, distribution, heat fluxes and impact on ecosystems. <i>Marine Geology</i> , 2021, 438, 106521.	2.1	6
4	Co-seismic deformation and post-glacial slip rate along the Magallanes-Fagnano fault, Tierra Del Fuego, Argentina. <i>Terra Nova</i> , 2020, 32, 1-10.	2.1	6
5	Tectonism and volcanism enhanced by deglaciation events in southern Iceland. <i>Quaternary Research</i> , 2020, 94, 94-120.	1.7	9
6	The colonization of the oceans by calcifying pelagic algae. <i>Biogeosciences</i> , 2019, 16, 2501-2510.	3.3	20
7	Stream Discharge Surges Generated by Groundwater Flow. <i>Geophysical Research Letters</i> , 2019, 46, 7447-7455.	4.0	18
8	Diachronic UAV Photogrammetry of a Sandy Beach in Brittany (France) for a Long-Term Coastal Observatory. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 267.	2.9	20
9	Suggestions to Limit Geometric Distortions in the Reconstruction of Linear Coastal Landforms by SfM Photogrammetry with PhotoScan® and MicMac® for UAV Surveys with Restricted GCPs Pattern. <i>Drones</i> , 2019, 3, 2.	4.9	36
10	Along strike behavior of the Tizi n'Est fire fault during the Lower Jurassic rifting (Central High Atlas) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	7
11	MarsSI: Martian surface data processing information system. <i>Planetary and Space Science</i> , 2018, 150, 157-170.	1.7	38
12	Bedforms in a tidally modulated ridge and runnel shoreface (Berck-Plage; North France): implications for the geological record. <i>Bulletin - Societe Geologique De France</i> , 2018, 189, 5.	2.2	10
13	Direct Georeferencing of a Pushbroom, Lightweight Hyperspectral System for Mini-UAV Applications. <i>Remote Sensing</i> , 2018, 10, 204.	4.0	23
14	Decoding the origins of vertical land motions observed today at coasts. <i>Geophysical Journal International</i> , 2017, 210, 148-165.	2.4	23
15	Cooling history of nested plutons from the Variscan Tichka plutonic complex (Morocco). <i>International Journal of Earth Sciences</i> , 2017, 106, 2855-2872.	1.8	2
16	Coupling LiDAR and thermal imagery to model the effects of riparian vegetation shade and groundwater inputs on summer river temperature. <i>Science of the Total Environment</i> , 2017, 592, 616-626.	8.0	38
17	Potential and Limitation of SPOT-5 Ortho-Image Correlation to Investigate the Cinematics of Landslides: The Example of "Mare A Poule d'Eau" (RÃ©union, France). <i>Remote Sensing</i> , 2017, 9, 106.	4.0	21
18	Bedrock incision by bedload: insights from direct numerical simulations. <i>Earth Surface Dynamics</i> , 2016, 4, 327-342.	2.4	11

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19	A comprehensive hydro-geomorphic study of cliff-top storm deposits on Banneg Island during winter 2013–2014. <i>Marine Geology</i> , 2016, 382, 37-55.	2.1	41
20	Effects of geomorphology and groundwater level on the spatio-temporal variability of riverine cold water patches assessed using thermal infrared (TIR) remote sensing. <i>Remote Sensing of Environment</i> , 2016, 175, 337-348.	11.0	40
21	The key role of vertical land motions in coastal sea level variations: A global synthesis of multisatellite altimetry, tide gauge data and GPS measurements. <i>Earth and Planetary Science Letters</i> , 2016, 439, 39-47.	4.4	52
22	Collapse of a two-dimensional brittle granular column: Implications for understanding dynamic rock fragmentation in a landslide. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1866-1880.	2.8	31
23	Influence of rainfalls on heat and steam fluxes of fumarolic zones: Six months records along the Ty fault (Soufrière de Guadeloupe, Lesser Antilles). <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 273-285.	2.1	14
24	Estimation of biomass and carbon stock in Para rubber plantations using object-based classification from Thaichote satellite data in Eastern Thailand. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096072.	1.3	25
25	Ground-based multi-view photogrammetry for the monitoring of landslide deformation and erosion. <i>Geomorphology</i> , 2015, 231, 130-145.	2.6	176
26	Potential and limitation of UAV for monitoring subsidence in municipal landfills. <i>International Journal of Environmental Technology and Management</i> , 2014, 17, 1.	0.2	26
27	Assessing the impact of soil surface characteristics on vineyard erosion from very high spatial resolution aerial images (Côte de Beaune, Burgundy, France). <i>Catena</i> , 2014, 116, 163-172.	5.0	35
28	Erosive effects of the storm Helena (1963) on Basse Terre Island (Guadeloupe – Lesser Antilles Arc). <i>Geomorphology</i> , 2014, 206, 79-86.	2.6	16
29	Surface reconstruction and landslide displacement measurements with Pleiades satellite images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 95, 1-12.	11.1	112
30	Morphology and dynamics of inflated subaqueous basaltic lava flows. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2128-2150.	2.5	30
31	Heat flux measurement from thermal infrared imagery in low-flux fumarolic zones: Example of the Ty fault (La Soufrière de Guadeloupe). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 267, 47-56.	2.1	18
32	Fault rate controls on carbonate gravity-flow deposits of the Liassic of Central High Atlas (Morocco). <i>Marine and Petroleum Geology</i> , 2013, 43, 349-369.	3.3	22
33	Estimation of Natural Carbon Sequestration in Eastern Thailand: Preliminary Results. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 139-142.	0.6	5
34	Prediction of water temperature heterogeneity of braided rivers using very high resolution thermal infrared (TIR) images. <i>International Journal of Remote Sensing</i> , 2013, 34, 4812-4831.	2.9	47
35	Performance of Image Correlation Techniques for Landslide Displacement Monitoring. , 2013, , 217-226.		1
36	Impact of the Middle Jurassic diversification of Watznaueria (coccolith-bearing algae) on the carbon cycle and $\delta^{13}C$ of bulk marine carbonates. <i>Global and Planetary Change</i> , 2012, 86-87, 92-100.	3.5	25

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37	Pristine Noachian crust and key geologic transitions in the lower walls of Valles Marineris: Insights into early igneous processes on Mars. <i>Icarus</i> , 2012, 221, 420-435.	2.5	65
38	Composition and structures of the subsurface in the vicinity of Valles Marineris as revealed by central uplifts of impact craters. <i>Icarus</i> , 2012, 221, 436-452.	2.5	43
39	Correlation of multi-temporal ground-based optical images for landslide monitoring: Application, potential and limitations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012, 70, 39-55.	11.1	168
40	Dune fields on Mars: Recorders of a climate change?. <i>Planetary and Space Science</i> , 2012, 60, 314-321.	1.7	43
41	Dikes of distinct composition intruded into Noachian-aged crust exposed in the walls of Valles Marineris. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	40
42	High albedo dune features suggest past dune migration and possible geochemical cementation of aeolian sediments on Mars. <i>Icarus</i> , 2011, 212, 590-596.	2.5	6
43	Evolution of the Sedrun landslide (Graubünden, Switzerland) with ortho-rectified air images. <i>Bulletin of Engineering Geology and the Environment</i> , 2010, 69, 421-430.	3.5	8
44	Morphology and geology of the ILD in Capri/Eos Chasma (Mars) from visible and infrared data. <i>Icarus</i> , 2010, 207, 175-185.	2.5	30
45	Application of a Terrestrial Laser Scanner (TLS) to the Study of the S�chilienne Landslide (Is�re.) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	4.0	88
46	Identification, distribution and possible origins of sulfates in Capri Chasma (Mars), inferred from CRISM data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
47	High resolution DEM derived from thermal infrared images: Example of Aber Benoit (France). , 2009, , .		1
48	Observation of a Large Landslide on La Reunion Island Using Differential Sar Interferometry (JERS and) <i>Tj ETQq0 0 0,rgBT /Overlock 10 T</i>	3.8	32
49	Assessing landscape connectivity with calibrated cost-distance modelling: predicting common toad distribution in a context of spreading agriculture. <i>Journal of Applied Ecology</i> , 2009, 46, 833-841.	4.0	47
50	Remote-sensing techniques for analysing landslide kinematics: a review. <i>Bulletin - Soci�t� Geologique De France</i> , 2007, 178, 89-100.	2.2	146
51	Possible long-term decline in impact rates. <i>Icarus</i> , 2007, 186, 1-10.	2.5	75
52	Expression and modelling of stratigraphic sequence distortion. <i>Sedimentary Geology</i> , 2005, 178, 159-186.	2.1	9
53	Differential single-frequency GPS monitoring of the La Valette landslide (French Alps). <i>Engineering Geology</i> , 2005, 79, 215-229.	6.3	103
54	Using ASTER remote sensing data set for geological mapping, in Namibia. <i>Physics and Chemistry of the Earth</i> , 2005, 30, 97-108.	2.9	80

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55	Contribution of multi-temporal remote sensing images to characterize landslide slip surface â€™ Application to the La ClapiÃƒre landslide (France). <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 425-437.	3.6	78
56	Evidence for Precipitation on Mars from Dendritic Valleys in the Valles Marineris Area. <i>Science</i> , 2004, 305, 78-81.	12.6	237
57	Impact of storms on mixed carbonate and siliciclastic shelves: insights from combined diffusive and fluid-flow transport stratigraphic forward model. <i>Basin Research</i> , 2004, 16, 431-449.	2.7	18
58	Analogue models of melt-flow networks in folding migmatites. <i>Journal of Structural Geology</i> , 2004, 26, 307-324.	2.3	37
59	Ages of Valles Marineris (Mars) landslides and implications for canyon history. <i>Icarus</i> , 2004, 172, 555-572.	2.5	88
60	Morphology and geometry of Valles Marineris landslides. <i>Planetary and Space Science</i> , 2004, 52, 1011-1022.	1.7	84
61	One My scale subsidence of carbonate sedimentary bodies and the viscosity of the lower crust. <i>Journal of Geodynamics</i> , 2004, 37, 103-124.	1.6	3
62	Discriminant pedological factors of in situ specific moisture and available water content of African soils. <i>Agronomy for Sustainable Development</i> , 2004, 24, 57-66.	0.8	1
63	Nine years of spatial and temporal evolution of the La Valette landslide observed by SAR interferometry. <i>Engineering Geology</i> , 2003, 68, 53-66.	6.3	103
64	Seventeen years of the â€™La ClapiÃƒreâ€™ landslide evolution analysed from ortho-rectified aerial photographs. <i>Engineering Geology</i> , 2003, 68, 123-139.	6.3	98
65	Calculating the long-term displacement rates of a normal fault from the high-resolution stratigraphic record (early Tethyan rifting, French Alps). <i>Terra Nova</i> , 2003, 15, 410-416.	2.1	31
66	Vertical movements of the Paris Basin (Triassic-Pleistocene): from 3D stratigraphic database to numerical models. <i>Geological Society Special Publication</i> , 2003, 212, 225-250.	1.3	9
67	A Volumeâ€™Based Approach to Calculation of Ancient Carbonate Accumulations. <i>Journal of Geology</i> , 2002, 110, 195-210.	1.4	8
68	An instability mechanism in the formation of the Martian lobate craters and the implications for the rheology of ejecta. <i>Geophysical Research Letters</i> , 2002, 29, 51-1-51-4.	4.0	31
69	Two-dimensional thermal modelling of the early tectonometamorphic evolution in central Himalaya. <i>Journal of Geodynamics</i> , 2002, 34, 77-98.	1.6	20
70	Erosion and flexural uplift along transform faults. <i>Geophysical Journal International</i> , 2002, 151, 646-653.	2.4	57
71	Experimental and theoretical deformation of iceâ€™rock mixtures: Implications on rheology and ice content of Martian permafrost. <i>Planetary and Space Science</i> , 2002, 50, 385-401.	1.7	73
72	Topographic analysis of features related to ice on Mars. <i>Geophysical Research Letters</i> , 2001, 28, 407-410.	4.0	73

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73	Numerical model of the effect of serpentinites on the exhumation of eclogitic rocks: insights from the Monviso ophiolitic massif (Western Alps). <i>Tectonophysics</i> , 2001, 342, 193-206.	2.2	135
74	Chronology of compressional deformation on Mars: evidence for a single and global origin. <i>Planetary and Space Science</i> , 2000, 48, 1201-1211.	1.7	44
75	DIBAFILL: a 3-D two-lithology diffusive model for basin infilling. <i>Computers and Geosciences</i> , 2000, 26, 1029-1042.	4.2	20
76	Meso-Cenozoic geodynamic evolution of the Paris Basin: 3D stratigraphic constraints. <i>Geodinamica Acta</i> , 2000, 13, 189-245.	2.2	119
77	Echelles de temps et d'espace du controle tectonique d'un bassin flexural intracratonique; le bassin de Paris. <i>Bulletin - Societe Geologique De France</i> , 2000, 171, 181-196.	2.2	22
78	Evolution tectonique mÃ©so-cÃ©nozoÃ©que du bassin de Paris: contraintes stratigraphiques 3D. <i>Geodinamica Acta</i> , 2000, 13, 189-245.	2.2	160
79	Massif central: dÃ©termination et modÃ©lisation de l'attÃ©nuation des ondes P tÃ©lÃ©sismiques. <i>Comptes Rendus De L'AcadÃ©mie Des Sciences Earth &amp; Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ©tes</i> , 1999, 328, 789-796.	0.2	0
80	Modelling of the oxygen isotope evolution of seawater: implications for the climate interpretation of the $\delta^{18}O$ of marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 351-361.	3.9	74
81	Small-scale models of multiring basins. <i>Journal of Geophysical Research</i> , 1999, 104, 16501-16514.	3.3	15
82	Wrinkle ridges of Mars: structural analysis and evidence for shallow deformation controlled by ice-rich dÃ©collements. <i>Planetary and Space Science</i> , 1998, 46, 345-356.	1.7	78
83	Calculating rates of syndepositional normal faulting in the western margin of the Mesozoic Subalpine Basin (south-east France). <i>Basin Research</i> , 1998, 10, 235-260.	2.7	24
84	Extension tardi-orogÃ©nique et formation des bassins intracontinentaux: le bassin stÃ©phanien des CÃ©vennes. <i>Geodinamica Acta</i> , 1997, 10, 70-80.	2.2	7
85	Discrimination des effets tectoniques, eustatiques et du flux de sÃ©diments dans l'enregistrement sÃ©dimentaire Ã partir d'un modÃ©le diffusif. Application au DomÃ©rien de la marge occidentale du bassin du Sud-Est (ArdÃ©che, France). <i>Comptes Rendus De L'AcadÃ©mie Des Sciences Earth &amp; Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ©tes</i> , 1997, 325, 711-718.	0.2	1
86	Strain partitioning and metamorphism in a deformable orogenic wedge: Application to the Alpine belt. <i>Tectonophysics</i> , 1997, 280, 157-169.	2.2	55
87	Delineation of hybrid and carbonate reservoirs through genetic stratigraphy in the Lower Mesozoic of southeastern France: procedures and benefits. <i>Marine and Petroleum Geology</i> , 1996, 13, 653-669.	3.3	10
88	Quantitative analysis of the extensional tectonics of Tharsis Bulge, Mars: Geodynamic implications. <i>Journal of Geophysical Research</i> , 1993, 98, 13097-13108.	3.3	25
89	The thermal gradient of Callisto constrained by Asgard Basin: Rheological and chemical implications. <i>Journal of Geophysical Research</i> , 1991, 96, 20981-20988.	3.3	5
90	Width of continental rifts and rheological layering of the lithosphere. <i>Tectonophysics</i> , 1991, 188, 63-69.	2.2	116