Pascal Allemand

List of Publications by Year
in descending order

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90	4,086	94433 37	118850 62
papers	citations	h-index	g-index

93	93	93	4617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence for Precipitation on Mars from Dendritic Valleys in the Valles Marineris Area. Science, 2004, 305, 78-81.	12.6	237
2	Ground-based multi-view photogrammetry for the monitoring of landslide deformation and erosion. Geomorphology, 2015, 231, 130-145.	2.6	176
3	Correlation of multi-temporal ground-based optical images for landslide monitoring: Application, potential and limitations. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 70, 39-55.	11.1	168
4	Evolution tectonique mÃƒÂ©so-cÃƒÂ©nozoÃƒÂ¯que du bassin de Paris: contraintes stratigraphiques 3D. Geodinamica Acta, 2000, 13, 189-245.	2.2	160
5	Remote-sensing techniques for analysing landslide kinematics: a review. Bulletin - Societie Geologique De France, 2007, 178, 89-100.	2.2	146
6	Numerical model of the effect of serpentinites on the exhumation of eclogitic rocks: insights from the Monviso ophiolitic massif (Western Alps). Tectonophysics, 2001, 342, 193-206.	2.2	135
7	Meso-Cenozoic geodynamic evolution of the Paris Basin: 3D stratigraphic constraints. Geodinamica Acta, 2000, 13, 189-245.	2.2	119
8	Width of continental rifts and rheological layering of the lithosphere. Tectonophysics, 1991, 188, 63-69.	2.2	116
9	Surface reconstruction and landslide displacement measurements with PlÃ©iades satellite images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 95, 1-12.	11.1	112
10	Nine years of spatial and temporal evolution of the La Valette landslide observed by SAR interferometry. Engineering Geology, 2003, 68, 53-66.	6.3	103
11	Differential single-frequency GPS monitoring of the La Valette landslide (French Alps). Engineering Geology, 2005, 79, 215-229.	6.3	103
12	Seventeen years of the â€œLa ClapiÃ¨reâ€•landslide evolution analysed from ortho-rectified aerial photographs. Engineering Geology, 2003, 68, 123-139.	6.3	98
13	Ages of Valles Marineris (Mars) landslides and implications for canyon history. Icarus, 2004, 172, 555-572.	2.5	88
14	Application of a Terrestrial Laser Scanner (TLS) to the Study of the SÃ©chilienne Landslide (IsÃ¨re,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.0	88
15	Morphology and geometry of Valles Marineris landslides. Planetary and Space Science, 2004, 52, 1011-1022.	1.7	84
16	Oxia Planum: The Landing Site for the ExoMars â€œRosalind Franklinâ€•Rover Mission: Geological Context and Prelanding Interpretation. Astrobiology, 2021, 21, 345-366.	3.0	84
17	Using ASTER remote sensing data set for geological mapping, in Namibia. Physics and Chemistry of the Earth, 2005, 30, 97-108.	2.9	80
18	Wrinkle ridges of Mars: structural analysis and evidence for shallow deformation controlled by ice-rich dÃ©collements. Planetary and Space Science, 1998, 46, 345-356.	1.7	78

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19	Contribution of multi-temporal remote sensing images to characterize landslide slip surface â€' Application to the La ClapiÃ¨re landslide (France). Natural Hazards and Earth System Sciences, 2005, 5, 425-437.	3.6	78
20	Possible long-term decline in impact rates. Icarus, 2007, 186, 1-10.	2.5	75
21	Modelling of the oxygen isotope evolution of seawater: implications for the climate interpretation of the Î´18O of marine sediments. Geochimica Et Cosmochimica Acta, 1999, 63, 351-361.	3.9	74
22	Topographic analysis of features related to ice on Mars. Geophysical Research Letters, 2001, 28, 407-410.	4.0	73
23	Experimental and theoretical deformation of iceâ€"rock mixtures: Implications on rheology and ice content of Martian permafrost. Planetary and Space Science, 2002, 50, 385-401.	1.7	73
24	Pristine Noachian crust and key geologic transitions in the lower walls of Valles Marineris: Insights into early igneous processes on Mars. Icarus, 2012, 221, 420-435.	2.5	65
25	Erosion and flexural uplift along transform faults. Geophysical Journal International, 2002, 151, 646-653.	2.4	57
26	Strain partitioning and metamorphism in a deformable orogenic wedge: Application to the Alpine belt. Tectonophysics, 1997, 280, 157-169.	2.2	55
27	The key role of vertical land motions in coastal sea level variations: A global synthesis of multisatellite altimetry, tide gauge data and GPS measurements. Earth and Planetary Science Letters, 2016, 439, 39-47.	4.4	52
28	Identification, distribution and possible origins of sulfates in Capri Chasma (Mars), inferred from CRISM data. Journal of Geophysical Research, 2010, 115, .	3.3	48
29	Assessing landscape connectivity with calibrated costâ€distance modelling: predicting common toad distribution in a context of spreading agriculture. Journal of Applied Ecology, 2009, 46, 833-841.	4.0	47
30	Prediction of water temperature heterogeneity of braided rivers using very high resolution thermal infrared (TIR) images. International Journal of Remote Sensing, 2013, 34, 4812-4831.	2.9	47
31	Chronology of compressional deformation on Mars: evidence for a single and global origin. Planetary and Space Science, 2000, 48, 1201-1211.	1.7	44
32	Composition and structures of the subsurface in the vicinity of Valles Marineris as revealed by central uplifts of impact craters. Icarus, 2012, 221, 436-452.	2.5	43
33	Dune fields on Mars: Recorders of a climate change?. Planetary and Space Science, 2012, 60, 314-321.	1.7	43
34	A comprehensive hydro-geomorphic study of cliff-top storm deposits on Banneg Island during winter 2013â€"2014. Marine Geology, 2016, 382, 37-55.	2.1	41
35	Dikes of distinct composition intruded into Noachianâ€aged crust exposed in the walls of Valles Marineris. Geophysical Research Letters, 2011, 38, .	4.0	40
36	Effects of geomorphology and groundwater level on the spatio-temporal variability of riverine cold water patches assessed using thermal infrared (TIR) remote sensing. Remote Sensing of Environment, 2016, 175, 337-348.	11.0	40

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37	Coupling LiDAR and thermal imagery to model the effects of riparian vegetation shade and groundwater inputs on summer river temperature. Science of the Total Environment, 2017, 592, 616-626.	8.0	38
38	MarsSI: Martian surface data processing information system. Planetary and Space Science, 2018, 150, 157-170.	1.7	38
39	Analogue models of melt-flow networks in folding migmatites. Journal of Structural Geology, 2004, 26, 307-324.	2.3	37
40	Suggestions to Limit Geometric Distortions in the Reconstruction of Linear Coastal Landforms by SfM Photogrammetry with PhotoScanÂ® and MicMacÂ® for UAV Surveys with Restricted GCPs Pattern. Drones, 2019, 3, 2.	4.9	36
41	Assessing the impact of soil surface characteristics on vineyard erosion from very high spatial resolution aerial images (CÃ´te de Beaune, Burgundy, France). Catena, 2014, 116, 163-172.	5.0	35
42	Observation of a Large Landslide on La Reunion Island Using Differential Sar Interferometry (JERS and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.8	32
43	An instability mechanism in the formation of the Martian lobate craters and the implications for the rheology of ejecta. Geophysical Research Letters, 2002, 29, 51-1-51-4.	4.0	31
44	Calculating the long-term displacement rates of a normal fault from the high-resolution stratigraphic record (early Tethyan rifting, French Alps). Terra Nova, 2003, 15, 410-416.	2.1	31
45	Collapse of a twoâ€dimensional brittle granular column: Implications for understanding dynamic rock fragmentation in a landslide. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1866-1880.	2.8	31
46	Morphology and geology of the ILD in Capri/Eos Chasma (Mars) from visible and infrared data. Icarus, 2010, 207, 175-185.	2.5	30
47	Morphology and dynamics of inflated subaqueous basaltic lava flows. Geochemistry, Geophysics, Geosystems, 2014, 15, 2128-2150.	2.5	30
48	Potential and limitation of UAV for monitoring subsidence in municipal landfills. International Journal of Environmental Technology and Management, 2014, 17, 1.	0.2	26
49	Quantitative analysis of the extensional tectonics of Tharsis Bulge, Mars: Geodynamic implications. Journal of Geophysical Research, 1993, 98, 13097-13108.	3.3	25
50	Impact of the Middle Jurassic diversification of Watznaueria (coccolith-bearing algae) on the carbon cycle and Î´13C of bulk marine carbonates. Global and Planetary Change, 2012, 86-87, 92-100.	3.5	25
51	Estimation of biomass and carbon stock in Para rubber plantations using object-based classification from Thaichote satellite data in Eastern Thailand. Journal of Applied Remote Sensing, 2015, 9, 096072.	1.3	25
52	Calculating rates of syndepositional normal faulting in the western margin of the Mesozoic Subalpine Basin (south-east France). Basin Research, 1998, 10, 235-260.	2.7	24
53	Decoding the origins of vertical land motions observed today at coasts. Geophysical Journal International, 2017, 210, 148-165.	2.4	23
54	Direct Georeferencing of a Pushbroom, Lightweight Hyperspectral System for Mini-UAV Applications. Remote Sensing, 2018, 10, 204.	4.0	23

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55	Echelles de temps et d'espace du controle tectonique d'un bassin flexural intracratonique; le bassin de Paris. Bulletin - Societie Geologique De France, 2000, 171, 181-196.	2.2	22
56	Fault rate controls on carbonate gravity-flow deposits of the Liassic of Central High Atlas (Morocco). Marine and Petroleum Geology, 2013, 43, 349-369.	3.3	22
57	Potential and Limitation of SPOT-5 Ortho-Image Correlation to Investigate the Cinematics of Landslides: The Example of â€œMare Ã Poule dâ€™Eauâ€•(RÃ©union, France). Remote Sensing, 2017, 9, 106.	4.0	21
58	DIBAFILL: a 3-D two-lithology diffusive model for basin infilling. Computers and Geosciences, 2000, 26, 1029-1042.	4.2	20
59	Two-dimensional thermal modelling of the early tectonometamorphic evolution in central Himalaya. Journal of Geodynamics, 2002, 34, 77-98.	1.6	20
60	The colonization of the oceans by calcifying pelagic algae. Biogeosciences, 2019, 16, 2501-2510.	3.3	20
61	Diachronic UAV Photogrammetry of a Sandy Beach in Brittany (France) for a Long-Term Coastal Observatory. ISPRS International Journal of Geo-Information, 2019, 8, 267.	2.9	20
62	Impact of storms on mixed carbonate and siliciclastic shelves: insights from combined diffusive and fluid-flow transport stratigraphic forward model. Basin Research, 2004, 16, 431-449.	2.7	18
63	Heat flux measurement from thermal infrared imagery in low-flux fumarolic zones: Example of the Ty fault (La SoufriÃ¨re de Guadeloupe). Journal of Volcanology and Geothermal Research, 2013, 267, 47-56.	2.1	18
64	Streamâ€Discharge Surges Generated by Groundwater Flow. Geophysical Research Letters, 2019, 46, 7447-7455.	4.0	18
65	Erosive effects of the storm Helena (1963) on Basse Terre Island (Guadeloupe â€” Lesser Antilles Arc). Geomorphology, 2014, 206, 79-86.	2.6	16
66	Small-scale models of multiring basins. Journal of Geophysical Research, 1999, 104, 16501-16514.	3.3	15
67	Influence of rainfalls on heat and steam fluxes of fumarolic zones: Six months records along the Ty fault (SoufriÃ¨re of Guadeloupe, Lesser Antilles). Journal of Volcanology and Geothermal Research, 2015, 302, 273-285.	2.1	14
68	Bedrock incision by bedload: insights from direct numerical simulations. Earth Surface Dynamics, 2016, 4, 327-342.	2.4	11
69	Delineation of hybrid and carbonate reservoirs through genetic stratigraphy in the Lower Mesozoic of southeastern France: procedures and benefits. Marine and Petroleum Geology, 1996, 13, 653-669.	3.3	10
70	Bedforms in a tidally modulated ridge and runnel shoreface (Berck-Plage; North France): implications for the geological record. Bulletin - Societie Geologique De France, 2018, 189, 5.	2.2	10
71	Vertical movements of the Paris Basin (Triassic-Pleistocene): from 3D stratigraphic database to numerical models. Geological Society Special Publication, 2003, 212, 225-250.	1.3	9
72	Expression and modelling of stratigraphic sequence distortion. Sedimentary Geology, 2005, 178, 159-186.	2.1	9

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73	Tectonism and volcanism enhanced by deglaciation events in southern Iceland. Quaternary Research, 2020, 94, 94-120.	1.7	9
74	A Volumeâ€Based Approach to Calculation of Ancient Carbonate Accumulations. Journal of Geology, 2002, 110, 195-210.	1.4	8
75	Evolution of the Sedrun landslide (GraubÃ¼nden, Switzerland) with ortho-rectified air images. Bulletin of Engineering Geology and the Environment, 2010, 69, 421-430.	3.5	8
76	Extension tardi-orogÃ©nique et formation des bassins intracontinentaux: le bassin stÃ©phanien des CÃ©vennes. Geodinamica Acta, 1997, 10, 70-80.	2.2	7
77	Along strike behavior of the Tizi nâ€™ Firest fault during the Lower Jurassic rifting (Central High Atlas) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	7
78	High albedo dune features suggest past dune migration and possible geochemical cementation of aeolian sediments on Mars. Icarus, 2011, 212, 590-596.	2.5	6
79	Coâ€seismic deformation and postâ€glacial slip rate along the Magallanesâ€Fagnano fault, Tierra Del Fuego, Argentina. Terra Nova, 2020, 32, 1-10.	2.1	6
80	Shallow-water hydrothermalism at Milos (Greece): Nature, distribution, heat fluxes and impact on ecosystems. Marine Geology, 2021, 438, 106521.	2.1	6
81	Fast exhumation rate during late orogenic extension: The new timing of the Pilat detachment fault (French Massif Central, Variscan belt). Gondwana Research, 2022, 103, 260-275.	6.0	6
82	The thermal gradient of Callisto constrained by Asgard Basin: Rheological and chemical implications. Journal of Geophysical Research, 1991, 96, 20981-20988.	3.3	5
83	Estimation of Natural Carbon Sequestration in Eastern Thailand: Preliminary Results. Procedia Earth and Planetary Science, 2013, 7, 139-142.	0.6	5
84	One My scale subsidence of carbonate sedimentary bodies and the viscosity of the lower crust. Journal of Geodynamics, 2004, 37, 103-124.	1.6	3
85	Cooling history of nested plutons from the Variscan Tichka plutonic complex (Morocco). International Journal of Earth Sciences, 2017, 106, 2855-2872.	1.8	2
86	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). Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 1997, 325, 711-718.	0.2	1
87	High resolution DEM derived from thermal infrared images: Example of Aber Benoit (France). , 2009, , .		1
88	Performance of Image Correlation Techniques for Landslide Displacement Monitoring. , 2013, , 217-226.		1
89	Discriminant pedological factors of in situ specific moisture and available water content of African soils. Agronomy for Sustainable Development, 2004, 24, 57-66.	0.8	1
90	Massif central: dÃ©termination et modÃ©lisation de l'attÃ©nuation des ondes P tÃ©lÃ©sismiques. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 1999, 328, 789-796.	0.2	0