

Benoit Deffontaines

List of Publications by Year in descending order

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70
papers

2,476
citations

218662

26
h-index

206102

48
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80
all docs

80
docs citations

80
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Neotectonics of the volcanic Kuei-Shan Tao island, and geodynamic implications (NE Taiwan - SW Tj ETQq1 1 0.784314 rgBT ₁ /Overlock	2.2	1
2	Anisotropic Rayleigh-wave phase velocity maps of the Sunda Plate. Journal of Asian Earth Sciences, 2020, 187, 104094.	2.3	3
3	Application of the SBAS-DInSAR technique for deformation monitoring in Tunis City and Mornag plain. Geomatics, Natural Hazards and Risk, 2020, 11, 1346-1377.	4.3	7
4	Neotectonics of the Southern Hengchun Peninsula (Taiwan): Inputs from high resolution UAS Digital Terrain Model, updated geological mapping and PSInSAR techniques. Tectonophysics, 2019, 767, 128149.	2.2	5
5	A Statistical Approach to Preprocess and Enhance C-Band SAR Images in Order to Detect Automatically Marine Oil Slicks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2554-2564.	6.3	8
6	Estimated location of the seafloor sources of marine natural oil seeps from sea surface outbreaks: A new "source path procedure" applied to the northern Gulf of Mexico. Marine and Petroleum Geology, 2018, 91, 190-201.	3.3	11
7	Active tectonics of the onshore Hengchun Fault using UAS DSM combined with ALOS PS-InSAR time series (Southern Taiwan). Natural Hazards and Earth System Sciences, 2018, 18, 829-845.	3.6	14
8	Active interseismic shallow deformation of the Pingting terraces (Longitudinal Valley " Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0 Natural Hazards and Risk, 2017, 8, 120-136.	4.3	25
9	Structure and deformation of the Southern Taiwan accretionary prism: The active submarine Fangliao Fault Zone offshore west Hengchun Peninsula. Tectonophysics, 2016, 692, 227-240.	2.2	14
10	Neotectonics of coastal Jeffara (southern Tunisia): State of the art. Tectonophysics, 2016, 676, 211-228.	2.2	7
11	Analysis of Recent Deformation in the Southern Atlas of Tunisia Using Geomorphometry. , 2015, , 113-117.		0
12	Morphotectonic and Morphodynamic investigations revealed by isobase surfaces analysis and derived differential mapping using GIS, Teboursouk area, northern Tunisia. Earth Science Informatics, 2015, 8, 759-773.	3.2	5
13	The eastern flank of the Merapi volcano (Central Java, Indonesia): Architecture and implications of volcanoclastic deposits. Journal of Asian Earth Sciences, 2015, 108, 33-47.	2.3	13
14	New Structural and Geodynamic Coastal Jeffara Model (Southern Tunisia) and Engineering Implications. , 2015, , 139-146.		0
15	Geotechnical Study of Urban Soil and Subsoil of Fez City (N. Morocco) and Natural Risk Mapping Using Geographic Information System (GIS). , 2015, , 763-768.		0
16	Seismic Cycle of the Southern Apennine Deformation Front: The Taranto Gulf Marine Terraces Inputs and Implications. , 2015, , 129-137.		0
17	Recent tectonic activity of the Gafsa fault through morphometric analysis: Southern Atlas of Tunisia. Quaternary International, 2014, 338, 99-112.	1.5	28
18	Monitoring of active tectonic deformations in the Longitudinal Valley (Eastern Taiwan) using Persistent Scatterer InSAR method with ALOS PALSAR data. Earth and Planetary Science Letters, 2012, 337-338, 144-155.	4.4	37

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19	Hydrogeological settings of a volcanic island (San Cristóbal, Galapagos) from joint interpretation of airborne electromagnetics and geomorphological observations. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4571-4579.	4.9	23
20	Phosphate mine subsidences deduced from differential interferometry (DInSAR): The Moulaires case example (southern Atlas of Tunisia). <i>Comptes Rendus - Geoscience</i> , 2011, 343, 729-737.	1.2	5
21	3D resistivity gridding of large AEM datasets: A step toward enhanced geological interpretation. <i>Journal of Applied Geophysics</i> , 2011, 75, 277-283.	2.1	25
22	Fluid transfers in a carbonate-gaseous aquifer through the local tectonic and geodynamic history. <i>Journal of the Geological Society</i> , 2009, 166, 643-654.	2.1	0
23	Monitoring residual mining subsidence of Nord/Pas-de-Calais coal basin from differential and Persistent Scatterer Interferometry (Northern France). <i>Journal of Applied Geophysics</i> , 2009, 69, 24-34.	2.1	67
24	Does extrusion occur at both tips of the Taiwan collision belt? Insights from active deformation studies in the Ilan Plain and Pingtung Plain regions. <i>Tectonophysics</i> , 2009, 466, 356-376.	2.2	40
25	Active deformation of Tainan tableland of southwestern Taiwan based on geodetic measurements and SAR interferometry. <i>Tectonophysics</i> , 2009, 466, 322-334.	2.2	22
26	An integrated study of the hydrogeology of volcanic islands using helicopter borne transient electromagnetic: Application in the Galapagos Archipelago. <i>Comptes Rendus - Geoscience</i> , 2009, 341, 899-907.	1.2	40
27	DEM generation using ASAR (ENVISAT) for addressing the lack of freshwater ecosystems management, Santa Cruz Island, Galapagos. <i>Remote Sensing of Environment</i> , 2008, 112, 4131-4147.	11.0	42
28	Extensive perched aquifer and structural implications revealed by 3D resistivity mapping in a Galapagos volcano. <i>Earth and Planetary Science Letters</i> , 2008, 269, 518-522.	4.4	60
29	A growing structure near the deformation front in SW Taiwan as deduced from SAR interferometry and geodetic observation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	23
30	Topographical changes revealed by high-resolution airborne LiDAR data: The 1999 Tsaoling landslide induced by the Chiâ€Chi earthquake. <i>Engineering Geology</i> , 2006, 88, 160-172.	6.3	190
31	A multidisciplinary approach to determine the structural geometry of hard-rock aquifers. Application to the Plancoet migmatitic aquifer (NE Brittany, W France). <i>Bulletin - Societie Geologique De France</i> , 2006, 177, 227-236.	2.2	15
32	Origin of the high variability of water mineral content in the bedrock aquifers of Southern Madagascar. <i>Journal of Hydrology</i> , 2005, 310, 143-156.	5.4	31
33	Estimates of present-day erosion based on sediment transport in rivers: a case study in Taiwan. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 1131-1139.	1.2	9
34	Monitoring coastal evolution and associated littoral hazards of French Guiana shoreline with radar images. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 1140-1153.	1.2	11
35	Monitoring vertical deformation due to water pumping in the city of Paris (France) with differential interferometry. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 1173-1183.	1.2	20
36	Neogene-Holocene rift propagation in central Tanzania: Morphostructural and aeromagnetic evidence from the Kilombero area. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 490.	3.3	50

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37	Spatial distribution of resistivity in the hydrogeological systems, and identification of the catchment area in the Rharb basin, Morocco / Répartition spatiale de la résistivité dans les systèmes hydrogéologiques et détection des zones de captages dans le bassin du Rharb, Maroc. Hydrological Sciences Journal, 2004, 49, .	2.6	23
38	Relationships between hydraulic conductivity distribution and synsedimentary faults, Rharb-Mamora basin, Morocco; Hydrogeological, geostatistical and modeling approaches. Hydrogeology Journal, 2004, 12, 591-600.	2.1	17
39	Deformation Patterns of an Accretionary Wedge in the Transition Zone from Subduction to Collision Offshore Southwestern Taiwan. Marine Geophysical Researches, 2004, 25, 123-137.	1.2	54
40	The Liuchiu Hsu island offshore SW Taiwan: tectonic versus diapiric anticline development and comparisons with onshore structures. Comptes Rendus - Geoscience, 2004, 336, 815-825.	1.2	16
41	Coseismic displacements of the footwall of the Chelungpu fault caused by the 1999, Taiwan, Chi-Chi earthquake from InSAR and GPS data. Earth and Planetary Science Letters, 2003, 212, 73-88.	4.4	42
42	Deformation patterns of an accretionary wedge in the transition zone from subduction to collision offshore southwestern Taiwan. , 2003, , .		0
43	Uplift of Tainan Tableland (SW Taiwan) revealed by SAR Interferometry. Geophysical Research Letters, 2001, 28, 3071-3074.	4.0	27
44	Le séisme de Chichi (1999) et sa place dans l'orogène de Taiwan. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 2001, 333, 5-21.	0.2	9
45	Deformation history of the southwestern Taiwan foreland thrust belt: insights from tectono-sedimentary analyses and balanced cross-sections. Tectonophysics, 2001, 333, 293-322.	2.2	70
46	Structural, geodetic and seismological evidence for tectonic escape in SW Taiwan. Tectonophysics, 2001, 333, 323-345.	2.2	100
47	Preliminary Neotectonic Map of Onshore-offshore Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2001, 12, 339.	0.6	12
48	Cenozoic folding and faulting in the south Aquitaine Basin (France): insights from combined structural and paleostress analyses. Journal of Structural Geology, 2000, 22, 627-645.	2.3	57
49	Active denudation morphostructures from SAR ERS-1 images (SW Irian Jaya). International Journal of Remote Sensing, 1999, 20, 789-800.	2.9	10
50	Upper plate deformation induced by subduction of a volcanic arc: the Snellius Plateau (Molucca Sea, Irian Jaya). Journal of Structural Geology, 1999, 21, 1007-1022.	2.2	59
51	Quaternary transfer faulting and belt front deformation at Pakuashan (western Taiwan). Tectonics, 1999, 18, 215-230.	2.8	44
52	Partition between collision and subduction accretionary prisms along an inherited transcurrent fault zone: New insights on the Taiwan fold and thrust belt. Tectonics, 1999, 18, 546-558.	2.8	4
53	Geometry and Quaternary kinematics of fold-and-thrust units of southwestern Taiwan. Tectonics, 1999, 18, 1198-1223.	2.8	58
54	Morphotectonic evidence from lateral propagation of an active frontal fold; Pakuashan anticline, foothills of Taiwan. Geomorphology, 1998, 24, 263-290.	2.6	113

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55	An integrated analysis of transverse structures in the northern Apennines, Italy. <i>Geomorphology</i> , 1998, 25, 193-206.	2.6	20
56	Genetic relations between the central and southern Philippine Trench and the Sangihe Trench. <i>Journal of Geophysical Research</i> , 1998, 103, 933-950.	3.3	61
57	Okinawa trough backarc basin: Early tectonic and magmatic evolution. <i>Journal of Geophysical Research</i> , 1998, 103, 30245-30267.	3.3	312
58	Quaternary transfer faulting in the Taiwan Foothills: evidence from a multisource approach. <i>Tectonophysics</i> , 1997, 274, 61-82.	2.2	105
59	Syn depositional tectonics and extension-compression relationships at the front of the Taiwan collision belt: a case study in the Pleistocene reefal limestones near Kaohsiung, SW Taiwan. <i>Tectonophysics</i> , 1997, 274, 83-96.	2.2	22
60	New data on the geodynamics of southern Peru from computerized analysis of SPOT and SAR ERS-1 images. <i>Tectonophysics</i> , 1996, 259, 153-169.	2.2	17
61	Segmentation of digital plane curves: A dynamic focusing approach. <i>Pattern Recognition Letters</i> , 1996, 17, 741-750.	4.2	20
62	Active Deformation and Paleostress Analysis in the Pakua Anticline Area of Western Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 1996, 7, 431.	0.6	26
63	AUTOMATED MAPPING OF THE LANDSLIDE HAZARD ON THE ISLAND OF TAHITI BASED ON DIGITAL SATELLITE DATA. <i>Mapping Sciences and Remote Sensing</i> , 1995, 32, 59-70.	0.0	4
64	New geomorphic data on the active Taiwan orogen: A multisource approach. <i>Journal of Geophysical Research</i> , 1994, 99, 20243-20266.	3.3	71
65	Drainage network analysis and tectonics of Mindanao, southern Philippines. <i>Geomorphology</i> , 1994, 9, 325-342.	2.6	33
66	Transfer faults and pull-apart model in the rhinegraben from analysis of multisource data. <i>Journal of Geophysical Research</i> , 1993, 98, 14339-14351.	3.3	24
67	SPOT satellite monitoring of the eruption of Nevado Sabancaya volcano (Southern Peru). <i>Remote Sensing of Environment</i> , 1992, 42, 43-49.	11.0	15
68	Investigation of active faults in Morocco using morphometric methods and drainage pattern analysis. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1992, 81, 199-210.	1.3	42
69	L'analyse des surfaces enveloppes appliquée à l'étude morpho-structurale de l'est de la France. <i>Geodinamica Acta</i> , 1992, 5, 279-292.	2.2	9
70	Principles of drainage basin analysis from multisource data: Application to the structural analysis of the Zaire Basin. <i>Tectonophysics</i> , 1991, 194, 237-263.	2.2	109