Tiago M Alves

List of Publications by Year
in descending order

128	3,659	117453 34	168136 53
papers	citations	h-index	g-index

132	132	132	2422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Submarine slide blocks and associated soft-sediment deformation in deep-water basins: A review. Marine and Petroleum Geology, 2015, 67, 262-285.	1.5	132
2	Prolonged post-rift magmatism on highly extended crust of divergent continental margins (Baiyun) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	120
3	Jurassic tectono-sedimentary evolution of the Northern Lusitanian Basin (offshore Portugal). Marine and Petroleum Geology, 2002, 19, 727-754.	1.5	108
4	Pitfalls and limitations in seismic attribute interpretation of tectonic features. Interpretation, 2015, 3, SB5-SB15.	0.5	108
5	MesozoicndashCenozoic evolution of North Atlantic continental-slope basins: The Peniche basin, western Iberian margin. AAPG Bulletin, 2006, 90, 31-60.	0.7	101
6	Modelling of oil spills in confined maritime basins: The case for early response in the Eastern Mediterranean Sea. Environmental Pollution, 2015, 206, 390-399.	3.7	100
7	The breakup sequence and associated lithospheric breakup surface: Their significance in the context of rifted continental margins (West Iberia and Newfoundland margins, North Atlantic). Earth and Planetary Science Letters, 2012, 355-356, 311-326.	1.8	98
8	Diachronous evolution of Late Jurassicâ€“Cretaceous continental rifting in the northeast Atlantic (west Iberian margin). Tectonics, 2009, 28, .	1.3	89
9	A three-step model to assess shoreline and offshore susceptibility to oil spills: The South Aegean (Crete) as an analogue for confined marine basins. Marine Pollution Bulletin, 2014, 86, 443-457.	2.3	86
10	Cenozoic tectono-sedimentary evolution of the western Iberian margin. Marine Geology, 2003, 195, 75-108.	0.9	80
11	MTD distribution on a â€˜passiveâ€™ continental margin: The EspÃrito Santo Basin (SE Brazil) during the Palaeogene. Marine and Petroleum Geology, 2010, 27, 1311-1324.	1.5	76
12	The depositional evolution of diapir- and fault-bounded rift basins: examples from the Lusitanian Basin of West Iberia. Sedimentary Geology, 2003, 162, 273-303.	1.0	74
13	Geomorphologic features related to gravitational collapse: Submarine landsliding to lateral spreading on a Late Mioceneâ€“Quaternary slope (SE Crete, eastern Mediterranean). Geomorphology, 2010, 123, 13-33.	1.1	74
14	3D Seismic examples of differential compaction in mass-transport deposits and their effect on post-failure strata. Marine Geology, 2010, 271, 212-224.	0.9	67
15	Multidisciplinary oil spill modeling to protect coastal communities and the environment of the Eastern Mediterranean Sea. Scientific Reports, 2016, 6, 36882.	1.6	64
16	Free gas accumulations in basal shear zones of mass-transport deposits (Pearl River Mouth Basin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Geology, 2017, 81, 17-32.	1.5	63
17	Pleistocene to Recent scleractinian deep-water corals and coral facies in the Eastern Mediterranean. Facies, 2011, 57, 579-603.	0.7	59
18	A 3-dimensional seismic method to assess the provenance of Mass-Transport Deposits (MTDs) on salt-rich continental slopes (EspÃrito Santo Basin, SE Brazil). Marine and Petroleum Geology, 2013, 44, 223-239.	1.5	56

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19	A phase of transient subsidence, sediment bypass and deposition of regressiveâ€“transgressive cycles during the breakup of Iberia and Newfoundland. Earth and Planetary Science Letters, 2018, 484, 168-183.	1.8	53
20	Volume balance of a submarine landslide in the EspÃrito Santo Basin, offshore Brazil: Quantifying seafloor erosion, sediment accumulation and depletion. Earth and Planetary Science Letters, 2009, 288, 572-580.	1.8	52
21	Assessing the internal character, reservoir potential, and seal competence of mass-transport deposits using seismic texture: A geophysical and petrophysical approach. AAPG Bulletin, 2014, 98, 793-824.	0.7	49
22	Faulting of salt-withdrawal basins during early halokinesis: Effects on the Paleogene Rio Doce Canyon system (EspÃrito Santo Basin, Brazil). AAPG Bulletin, 2009, 93, 617-652.	0.7	48
23	An incomplete correlation between pre-salt topography, top reservoir erosion, and salt deformation in deep-water Santos Basin (SE Brazil). Marine and Petroleum Geology, 2017, 79, 300-320.	1.5	46
24	Three-dimensional (3-D) seismic imaging of conduits and radial faults associated with hydrothermal vent complexes (VÃ¸ring Basin, Offshore Norway). Marine Geology, 2018, 399, 115-134.	0.9	44
25	Post-Jurassic tectono-sedimentary evolution of the Northern Lusitanian Basin (Western Iberian) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	43
26	Recurrent slope failure and submarine channel incision as key factors controlling reservoir potential in the South China Sea (Qiongdongnan Basin, South Hainan Island). Marine and Petroleum Geology, 2015, 64, 17-30.	1.5	43
27	Depositional architecture and structural evolution of a region immediately inboard of the locus of continental breakup (Liwan Sub-basin, South China Sea). Bulletin of the Geological Society of America, 2019, 131, 1059-1074.	1.6	41
28	Tectonoâ€stratigraphic signature of multiphased rifting on divergent margins (deepâ€offshore) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.3	40
29	Scale-relationships and geometry of normal faults reactivated during gravitational gliding of Albian rafts (EspÃrito Santo Basin, SE Brazil). Earth and Planetary Science Letters, 2012, 331-332, 80-96.	1.8	38
30	Volume rendering of enigmatic high-amplitude anomalies in southeast Brazil: A workflow to distinguish lithologic features from fluid accumulations. Interpretation, 2015, 3, A1-A14.	0.5	38
31	Distribution and characterization of failed (mega)blocks along salt ridges, southeast Brazil: Implications for vertical fluid flow on continental margins. Journal of Geophysical Research, 2011, 116, .	3.3	37
32	A tectono-stratigraphic review of continental breakup on intraplate continental margins and its impact on resultant hydrocarbon systems. Marine and Petroleum Geology, 2020, 117, 104341.	1.5	37
33	A submarine channel confluence classification for topographically confined slopes. Marine and Petroleum Geology, 2012, 35, 176-189.	1.5	35
34	Ramps and flats of mass-transport deposits (MTDs) as markers of seafloor strain on the flanks of rising diapirs (EspÃrito Santo Basin, SE Brazil). Marine Geology, 2013, 340, 82-97.	0.9	35
35	Spatial and dimensional relationships of submarine slope architectural elements: A seismic-scale analysis from the EspÃrito Santo Basin (SEÂBrazil). Marine and Petroleum Geology, 2015, 64, 43-57.	1.5	35
36	Resource potential of gas reservoirs in South Pakistan and adjacent Indian subcontinent revealed by post-stack inversion techniques. Journal of Natural Gas Science and Engineering, 2018, 49, 41-55.	2.1	35

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37	Along-strike segmentation of the South China Sea margin imposed by inherited pre-rift basement structures. Earth and Planetary Science Letters, 2020, 530, 115862.	1.8	35
38	Margin segmentation prior to continental break-up: A seismicâ€“stratigraphic record of multiphased rifting in the North Atlantic (Southwest Iberia). Tectonophysics, 2011, 505, 17-34.	0.9	34
39	Constraining the origin and evolution of confined turbidite systems: southern Cretan margin, Eastern Mediterranean Sea (34Â°30â€“36Â°N). Geo-Marine Letters, 2007, 27, 41-61.	0.5	33
40	The effect of mass-transport deposits on the younger slope morphology, offshore Brazil. Marine and Petroleum Geology, 2010, 27, 2027-2036.	1.5	33
41	Three-dimensional fault meshes and multi-layer shear in mass-transport blocks: Implications for fluid flow on continental margins. Tectonophysics, 2015, 647-648, 21-32.	0.9	33
42	Quantitative seismic geomorphology of a submarine channel system in SE Brazil (EspÃrito Santo Basin): Scale comparison with other submarine channel systems. Marine and Petroleum Geology, 2016, 78, 455-473.	1.5	33
43	Crestal fault geometries reveal late halokinesis and collapse of the Samson Dome, Northern Norway: Implications for petroleum systems in the Barents Sea. Tectonophysics, 2016, 690, 76-96.	0.9	33
44	True Volumes of Slope Failure Estimated From a Quaternary Massâ€Transport Deposit in the Northern South China Sea. Geophysical Research Letters, 2018, 45, 2642-2651.	1.5	33
45	Contourite drifts on early passive margins as an indicator of established lithospheric breakup. Earth and Planetary Science Letters, 2014, 401, 116-131.	1.8	32
46	Oil spill forecasting (prediction). Journal of Marine Research, 2017, 75, 923-953.	0.3	30
47	Impacts of data sampling on the interpretation of normal fault propagation and segment linkage. Tectonophysics, 2019, 762, 79-96.	0.9	30
48	Erosional features as indicators of thrust fault activity (Nankai Trough, Japan). Marine Geology, 2014, 356, 5-18.	0.9	29
49	A giant, submarine creep zone as a precursor of large-scale slope instability offshore the Dongsha Islands (South China Sea). Earth and Planetary Science Letters, 2016, 451, 272-284.	1.8	29
50	Bi-modal deformation styles in confined mass-transport deposits: Examples from a salt minibasin in SE Brazil. Marine Geology, 2016, 379, 176-193.	0.9	28
51	Alternating crustal architecture in West Iberia: a review of its significance in the context of NE Atlantic rifting. Journal of the Geological Society, 2017, 174, 522-540.	0.9	28
52	Geometric and depositional responses of carbonate build-ups to Miocene sea level and regional tectonics offshore northwest Australia. Marine and Petroleum Geology, 2018, 94, 144-165.	1.5	28
53	Mass-transport deposits controlling fault propagation, reactivation and structural decoupling on continental margins (EspÃrito Santo Basin, SE Brazil). Tectonophysics, 2014, 628, 158-171.	0.9	26
54	Morphology, age and sediment dynamics of the upper headwall of the Sahara Slide Complex, Northwest Africa: Evidence for a large Late Holocene failure. Marine Geology, 2017, 393, 109-123.	0.9	26

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55	Rift Structure and Sediment Infill of Hyperextended Continental Crust: Insights From 3D Seismic and Well Data (Xisha Trough, South China Sea). Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018610.	1.4	26
56	Post-rift compression on the SW Iberian margin (eastern North Atlantic): a case for prolonged inversion in the oceanâ€“continent transition zone. Journal of the Geological Society, 2011, 168, 1249-1263.	0.9	25
57	The Role of Mass Wasting In the Progressive Development Of Submarine Channels (EspÃrito Santo) Tj ETQq1 1 0.784314 rgBT /Overl	0.8	25
58	Submarine sediment routing over a blocky massâ€transport deposit in the EspÃrito Santo Basin, <scp>SE</scp> Brazil. Basin Research, 2018, 30, 816-834.	1.3	25
59	Structural controls on shallow fluid flow and associated pockmark fields in the East Breaks area, northern Gulf of Mexico. Marine and Petroleum Geology, 2020, 112, 104074.	1.5	25
60	Crustal deformation and submarine canyon incision in a Meso-Cenozoic first-order transfer zone (SW Iberia, North Atlantic Ocean). Tectonophysics, 2013, 601, 148-162.	0.9	24
61	Fluid flow through carbonate platforms as evidence for deep-seated reservoirs in Northwest Australia. Marine Geology, 2016, 380, 17-43.	0.9	24
62	Multi-scale fracture network characterisation on carbonate platforms. Journal of Structural Geology, 2020, 140, 104160.	1.0	23
63	Hindcast, GIS and susceptibility modelling to assist oil spill clean-up and mitigation on the southern coast of Cyprus (Eastern Mediterranean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 133, 159-175.	0.6	21
64	Footwall degradation styles and associated sedimentary facies distribution in SE Crete: Insights into tilt-block extensional basins on continental margins. Sedimentary Geology, 2018, 367, 1-19.	1.0	21
65	Reassessing two contrasting Late Miocene-Holocene stratigraphic frameworks for the Pearl River Mouth Basin, northern South China Sea. Marine and Petroleum Geology, 2019, 102, 899-913.	1.5	21
66	Post-rift magmatism on the northern South China Sea margin. Bulletin of the Geological Society of America, 2020, 132, 2382-2396.	1.6	21
67	The role of gravitational collapse in controlling the evolution of crestal fault systems (EspÃrito) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	20
68	Petrophysics of fine-grained mass-transport deposits: A critical review. Journal of Asian Earth Sciences, 2020, 192, 104291.	1.0	19
69	Fluid flow during early compartmentalisation of rafts: A North Sea analogue for divergent continental margins. Tectonophysics, 2014, 634, 91-96.	0.9	16
70	An integrated geological and GIS-based method to assess caprock risk in mature basins proposed for carbon capture and storage. International Journal of Greenhouse Gas Control, 2019, 80, 103-122.	2.3	16
71	A 3-D morphometric analysis of erosional features in a contourite drift from offshore SE Brazil. Geophysical Journal International, 2010, 183, 1151-1164.	1.0	15
72	Recurrent slope failure enhancing source rock burial depth and seal unit competence in the Pearl River Mouth Basin, offshore South China Sea. Tectonophysics, 2015, 643, 1-7.	0.9	15

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73	Reservoir leakage along concentric faults in the Southern North Sea: Implications for the deployment of CCS and EOR techniques. Tectonophysics, 2016, 690, 97-116.	0.9	15
74	Effects of sand-shale anisotropy on amplitude variation with angle (AVA) modelling: The Sawan gas field (Pakistan) as a key case-study for South Asia's sedimentary basins. Journal of Asian Earth Sciences, 2017, 147, 516-531.	1.0	15
75	Widespread hydrothermal vents and associated volcanism record prolonged Cenozoic magmatism in the South China Sea. Bulletin of the Geological Society of America, 2021, 133, 2645-2660.	1.6	15
76	Internal deformation of a muddy gravity flow and its interaction with the seafloor (site C0018 of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.7	14
77	Reutilisation of hydrothermal vent complexes for focused fluid flow on continental margins (Modgunn Arch, Norwegian Sea). Basin Research, 2021, 33, 1111-1134.	1.3	14
78	Pinnacle features at the base of isolated carbonate buildups marking point sources of fluid offshore Northwest Australia. Bulletin of the Geological Society of America, 2018, 130, 1596-1614.	1.6	13
79	Geomorphological evidence of carbonate build-up demise on equatorial margins: A case study from offshore northwest Australia. Marine and Petroleum Geology, 2019, 104, 125-149.	1.5	13
80	The role of sediment gravity flows on the morphological development of a large submarine canyon (Taiwan Canyon), northâ€east South China Sea. Sedimentology, 2021, 68, 1091-1108.	1.6	13
81	Scientific, societal and pedagogical approaches to tackle the impact of climate change on marine pollution. Scientific Reports, 2021, 11, 2927.	1.6	13
82	Different origins of seafloor undulations in a submarine canyon system, northern South China Sea, based on their seismic character and relative location. Marine Geology, 2019, 413, 99-111.	0.9	11
83	The role of gravitational collapse in controlling the evolution of crestal fault systems (EspÃrito) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	10
84	Strikeâ€Slip Tectonics in the SW Barents Sea During North Atlantic Rifting (Swaen Graben, Northern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	10
85	Numerical Modeling of Oil Pollution in the Eastern Mediterranean Sea. Handbook of Environmental Chemistry, 2017, , 215-254.	0.2	10
86	Differential compaction over Late Miocene submarine channels in SE Brazil: Implications for trap formation. Bulletin of the Geological Society of America, 2018, 130, 208-221.	1.6	10
87	The Agadir Slide offshore NW Africa: Morphology, emplacement dynamics, and potential contribution to the Moroccan Turbidite System. Earth and Planetary Science Letters, 2018, 498, 436-449.	1.8	9
88	Structural and depositional controls on Plioâ€Pleistocene submarine channel geometry (Taranaki) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	9
89	Effect of channel tributaries on the evolution of submarine channel confluences (EspÃrito Santo) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	9
90	Tectono-sedimentary evolution and petroleum systems of the MundaÃº subbasin: A new deep-water exploration frontier in equatorial Brazil. AAPG Bulletin, 2020, 104, 795-824.	0.7	9

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91	The Baiyun Slide Complex, South China Sea: A modern example of slope instability controlling submarine-channel incision on continental slopes. Marine and Petroleum Geology, 2020, 114, 104231.	1.5	9
92	A three-dimensional (3D) structural model for an oil-producing basin of the Brazilian equatorial margin. Marine and Petroleum Geology, 2020, 122, 104599.	1.5	9
93	Early Miocene magmatism in the Baiyun Sag (South China Sea): A view to the origin of intense post-rift magmatism. Gondwana Research, 2023, 120, 127-144.	3.0	9
94	Deepâ€water continental margins: geological and economic frontiers. Basin Research, 2014, 26, 3-9.	1.3	8
95	Polygonal mounds in the Barents Sea reveal sustained organic productivity towards the Pâ€“T boundary. Terra Nova, 2016, 28, 50-59.	0.9	8
96	Corridors of crestal and radial faults linking salt diapirs in the EspÃrito Santo Basin, SE Brazil. Tectonophysics, 2018, 728-729, 55-74.	0.9	8
97	Saltâ€induced crestal faults control the formation of Quaternary tunnel valleys in the southern North Sea. Boreas, 2020, 49, 799-812.	1.2	8
98	Significance of Upper Triassic to Lower Jurassic salt in the identification of palaeo-seaways in the North Atlantic. Marine and Petroleum Geology, 2021, 123, 104705.	1.5	8
99	Submarine canyon systems focusing sub-surface fluid in the Canterbury Basin, South Island, New Zealand. Scientific Reports, 2021, 11, 16990.	1.6	8
100	Geometric and kinematic analysis of normal faults bordering continental shelves: A 3D seismic case study from the northwest South China Sea. Marine and Petroleum Geology, 2021, 133, 105263.	1.5	8
101	Triassic evaporites and the structural architecture of the External Hellenides and Albanides (SE) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Journal of Earth Sciences, 2022, 111, 789-821.	0.9	8
102	Incision of Submarine Channels Over Pockmark Trains in the South China Sea. Geophysical Research Letters, 2021, 48, .	1.5	8
103	Strain decoupling reveals variable seismogenic risk in <scp>SE</scp><scp>J</scp>apan (<scp>N</scp>ankai <scp>T</scp>rough). Geochemistry, Geophysics, Geosystems, 2015, 16, 2025-2037.	1.0	7
104	Structural styles of Albian rafts in the EspÃrito Santo Basin (SE Brazil): Evidence for late raft compartmentalisation on a â€˜passiveâ€™ continental margin. Marine and Petroleum Geology, 2017, 79, 201-221.	1.5	7
105	Structural inheritance and its control on overpressure preservation in mature sedimentary basins (Dongying depression, Bohai Bay Basin, China). Marine and Petroleum Geology, 2022, 137, 105504.	1.5	7
106	Distribution of gas hydrates on continental margins by means of a mathematical envelope: A method applied to the interpretation of 3D Seismic Data. Geochemistry, Geophysics, Geosystems, 2014, 15, 52-68.	1.0	6
107	The accuracy of AVA approximations in isotropic media assessed via synthetic numerical experiments: Implications for the determination of porosity. Journal of Petroleum Science and Engineering, 2018, 170, 563-575.	2.1	6
108	Distribution and growth styles of isolated carbonate platforms as a function of fault propagation. Marine and Petroleum Geology, 2019, 107, 484-507.	1.5	6

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109	Impact of tectonic raftsâ€™ gravitational instability on fault reactivation and geometry. Journal of Structural Geology, 2020, 130, 103916.	1.0	6
110	Forced folding in the Kora Volcanic Complex, New Zealand: A case study with relevance to the production of hydrocarbons and geothermal energy. Geothermics, 2021, 89, 101965.	1.5	5
111	Morphology and evolution of submarine canyons on the northwest South China Sea margin. Marine Geology, 2022, 443, 106695.	0.9	5
112	A new approach to assess ancient marine slope instability using a bivariate statistical method. Marine Geology, 2018, 401, 129-144.	0.9	4
113	Strike-slip deformation reflects complex partitioning of strain in the Nankai Accretionary Prism (SE) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	4
114	Rifting of the Southwest and West Iberia Continental Margins. Regional Geology Reviews, 2019, , 251-283.	1.2	4
115	Unpredictable geometry and depositional stacking patterns of mass-transport complexes in salt minibasins. Marine and Petroleum Geology, 2020, 120, 104522.	1.5	4
116	Application of model based post-stack inversion in the characterization of reservoir sands containing porous, tight and mixed facies: A case study from the Central Indus Basin, Pakistan. Journal of Earth System Science, 2021, 130, 1.	0.6	4
117	Shallow fault systems of thrust anticlines responding to changes in accretionary prism lithology (Nankai, SE Japan). Tectonophysics, 2021, 812, 228888.	0.9	4
118	Integrated geophysical analysis of the Sembar Formation, Central Indus Basin, as an unconventional resource. Journal of Natural Gas Science and Engineering, 2022, 101, 104507.	2.1	4
119	Analysis of a basement fault zone with geothermal potential in the Southern North Sea. Geothermics, 2022, 102, 102398.	1.5	4
120	Bayesian inversion of synthetic AVO data to assess fluid and shale content in sand-shale media. Journal of Earth System Science, 2017, 126, 1.	0.6	3
121	Depositional and geomorphic patterns of mixed calciclasticâ€siliciclastic systems on a deepâ€water Equatorial Margin. Basin Research, 2021, 33, 3321.	1.3	3
122	Seismic-Scale Rafted and Remnant Blocks over Salt Ridges in the EspÃrito Santo Basin, Brazil. , 2012, , 629-638.		3
123	Effect of tectonic inversion on supra-salt fault geometry and reactivation histories in the Southern North Sea. Marine and Petroleum Geology, 2021, , 105401.	1.5	3
124	Fault analysis of a salt minibasin offshore EspÃrito Santo, SE Brazil: Implications for fluid flow, carbon and energy storage in regions dominated by salt tectonics. Marine and Petroleum Geology, 2022, 143, 105805.	1.5	2
125	The Role of Bottom Currents on the Morphological Development Around a Drowned Carbonate Platform, NW South China Sea. Journal of Ocean University of China, 2022, 21, 801-812.	0.6	2
126	Editorial: Continental margins unleashed - From their early inception to continental breakup. Marine and Petroleum Geology, 2021, 129, 105097.	1.5	1

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127	EUROpean Deep Ocean Margins (EuroDOM): A New Training-Through-Research Frontier. Oceanography, 2004, 17, 156-165.	0.5	0
128	Megablocks and the Stratigraphic Record of Continental Margins: How Large an Event Do They Materialise?. Springer Geology, 2014, , 775-780.	0.2	0