Pedro Walfir M Souza-Filho

List of Publications by Year
in descending order

97 papers	**3,077** citations

186265

28 h-index	

189892

50 g-index	

101 all docs	**101** docs citations
101 times ranked	**3095** citing authors

#	Article	IF	Citations
1	Reconstructing Three Decades of Land Use and Land Cover Changes in Brazilian Biomes with Landsat Archive and Earth Engine. Remote Sensing, 2020, 12, 2735.	4.0	589
2	Mapping changes in the largest continuous Amazonian mangrove belt using object-based classification of multisensor satellite imagery. Estuarine, Coastal and Shelf Science, 2013, 117, 83-93.	2.1	130
3	Four decades of land-cover, land-use and hydroclimatology changes in the Itacaiúnas River watershed, southeastern Amazon. Journal of Environmental Management, 2016, 167, 175-184.	7.8	125
4	A Model of Holocene Mangrove Development and Relative Sea-level Changes on the Bragança Peninsula (Northern Brazil). Wetlands Ecology and Management, 2005, 13, 433-443.	1.5	110
5	Brazilian Mangrove Status: Three Decades of Satellite Data Analysis. Remote Sensing, 2019, 11, 808.	4.0	101
6	Mine land rehabilitation: Modern ecological approaches for more sustainable mining. Journal of Cleaner Production, 2018, 172, 1409-1422.	9.3	99
7	Using mangroves as a geological indicator of coastal changes in the Bragança macrotidal flat, Brazilian Amazon: A remote sensing data approach. Ocean and Coastal Management, 2006, 49, 462-475.	4.4	64
8	Mine land rehabilitation in Brazil: Goals and techniques in the context of legal requirements. Ambio, 2019, 48, 74-88.	5.5	64
9	Mapping Mining Areas in the Brazilian Amazon Using MSI/Sentinel-2 Imagery (2017). Remote Sensing, 2018, 10, 1178.	4.0	62
10	A socioeconomic and natural vulnerability index for oil spills in an Amazonian harbor: A case study using GIS and remote sensing. Journal of Environmental Management, 2010, 91, 1972-1980.	7.8	55
11	Opposite Effects of Climate and Land Use Changes on the Annual Water Balance in the Amazon Arc of Deforestation. Water Resources Research, 2019, 55, 3092-3106.	4.2	55
12	Sediment dynamics of a tropical tide-dominated estuary: Turbidity maximum, mangroves and the role of the Amazon River sediment load. Estuarine, Coastal and Shelf Science, 2018, 214, 10-24.	2.1	53
13	Contribution of L-band SAR to systematic global mangrove monitoring. Marine and Freshwater Research, 2014, 65, 589.	1.3	52
14	Landscape Genomic Conservation Assessment of a Narrow-Endemic and a Widespread Morning Glory From Amazonian Savannas. Frontiers in Plant Science, 2018, 9, 532.	3.6	48
15	The Subsiding Macrotidal Barrier Estuarine System of the Eastern Amazon Coast, Northern Brazil. Lecture Notes in Earth Sciences, 2009, , 347-375.	0.5	45
16	Triterpenols in mangrove sediments as a proxy for organic matter derived from the red mangrove (Rhizophora mangle). Organic Geochemistry, 2011, 42, 62-73.	1.8	45
17	Impact of aquaculture on mangrove areas in the northern Pernambuco Coast (Brazil) using remote sensing and geographic information system. Aquaculture Research, 2010, 41, 828-838.	1.8	40
18	A GEOBIA Approach for Multitemporal Land-Cover and Land-Use Change Analysis in a Tropical Watershed in the Southeastern Amazon. Remote Sensing, 2018, 10, 1683.	4.0	40

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19	Use of multi-proxy approaches to determine the origin and depositional processes in modern lacustrine sediments: CarajÃ¡s Plateau, Southeastern Amazon, Brazil. Applied Geochemistry, 2015, 52, 130-146.	3.0	39
20	Regional-scale mapping for determining geochemical background values in soils of the ItacaiÃºnas River Basin, Brazil: The use of compositional data analysis (CoDA). Geoderma, 2020, 376, 114504.	5.1	39
21	High resolution hydrogeochemical survey and estimation of baseline concentrations of trace elements in surface water of the ItacaiÃºnas River Basin, southeastern Amazonia: Implication for environmental studies. Journal of Geochemical Exploration, 2019, 205, 106321.	3.2	38
22	Radarsat-2 Backscattering for the Modeling of Biophysical Parameters of Regenerating Mangrove Forests. Remote Sensing, 2015, 7, 17097-17112.	4.0	36
23	Influence of seasonal variation on the hydro-biogeochemical characteristics of two upland lakes in the Southeastern Amazon, Brazil. Anais Da Academia Brasileira De Ciencias, 2016, 88, 2211-2227.	0.8	36
24	Mapping and quantification of ferruginous outcrop savannas in the Brazilian Amazon: A challenge for biodiversity conservation. PLoS ONE, 2019, 14, e0211095.	2.5	36
25	Use of synthetic aperture radar for recognition of Coastal Geomorphological Features, land-use assessment and shoreline changes in BraganÃ§a coast, ParÃ¡, Northern Brazil. Anais Da Academia Brasileira De Ciencias, 2003, 75, 341-356.	0.8	35
26	Challenges and opportunities for large-scale reforestation in the Eastern Amazon using native species. Forest Ecology and Management, 2020, 466, 118120.	3.2	34
27	Improving mangrove above-ground biomass estimates using LiDAR. Estuarine, Coastal and Shelf Science, 2020, 236, 106585.	2.1	33
28	Use of Multi-Sensor Data to Identify and Map Tropical Coastal Wetlands in the Amazon of Northern Brazil. Wetlands, 2011, 31, 11-23.	1.5	32
29	Source and distribution of pollen and spores in surface sediments of a plateau lake in southeastern Amazonia. Quaternary International, 2014, 352, 181-196.	1.5	31
30	Source and background threshold values of potentially toxic elements in soils by multivariate statistics and GIS-based mapping: a high density sampling survey in the Parauapebas basin, Brazilian Amazon. Environmental Geochemistry and Health, 2020, 42, 255-282.	3.4	31
31	The effect of anthropogenic drivers on spatial patterns of mangrove land use on the Amazon coast. PLoS ONE, 2019, 14, e0217754.	2.5	30
32	Discrimination of coastal wetland environments in the Amazon region based on multi-polarized L-band airborne Synthetic Aperture Radar imagery. Estuarine, Coastal and Shelf Science, 2011, 95, 88-98.	2.1	29
33	Geochemistry of upland lacustrine sediments from Serra dos CarajÃ¡s, Southeastern Amazon, Brazil: Implications for catchment weathering, provenance, and sedimentary processes. Journal of South American Earth Sciences, 2016, 72, 178-190.	1.4	29
34	Use of RADARSAT-1 fine mode and Landsat-5 TM selective principal component analysis for geomorphological mapping in a macrotidal mangrove coast in the Amazon Region. Canadian Journal of Remote Sensing, 2005, 31, 214-224.	2.4	28
35	Research challenges at the landâ€"sea interface. Estuarine, Coastal and Shelf Science, 2003, 58, 699-702.	2.1	27
36	Limnological characteristics and planktonic diversity of five tropical upland lakes from Brazilian Amazon. Annales De Limnologie, 2017, 53, 467-483.	0.6	27

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37	Three decades of reference evapotranspiration estimates for a tropical watershed in the eastern Amazon. Anais Da Academia Brasileira De Ciencias, 2017, 89, 1985-2002.	0.8	27
38	Land Cover Changes in Open-Cast Mining Complexes Based on High-Resolution Remote Sensing Data. Remote Sensing, 2020, 12, 611.	4.0	27
39	Morphology and modern sedimentary deposits of the macrotidal Marapanim Estuary (Amazon, Brazil). Continental Shelf Research, 2009, 29, 619-631.	1.8	25
40	Amazon Sediment Transport and Accumulation Along the Continuum of Mixed Fluvial and Marine Processes. Annual Review of Marine Science, 2021, 13, 501-536.	11.6	25
41	Late Quaternary environmental and climate changes registered in lacustrine sediments of the Serra Sul de Carajás, south‐east Amazonia. Journal of Quaternary Science, 2016, 31, 61-74.	2.1	24
42	Environmental and vegetation changes in southeastern Amazonia during the late Pleistocene and Holocene. Quaternary International, 2017, 449, 83-105.	1.5	24
43	Morphology and morphometry of upland lakes over lateritic crust, Serra dos Carajás, southeastern Amazon region. Anais Da Academia Brasileira De Ciencias, 2018, 90, 1309-1325.	0.8	24
44	Statistical analysis of lake sediment geochemical data for understanding surface geological factors and processes: An example from Amazonian upland lakes, Brazil. Catena, 2019, 175, 47-62.	5.0	24
45	Geochemical mapping in stream sediments of the Carajás Mineral Province: Background values for the Itacaiúnas River watershed, Brazil. Applied Geochemistry, 2020, 118, 104608.	3.0	24
46	River tributaries as sediment sinks: Processes operating where the Tapajós and Xingu rivers meet the Amazon tidal river. Sedimentology, 2017, 64, 1731-1753.	3.1	23
47	Mangrove shrimp farm mapping and productivity on the Brazilian Amazon coast: Environmental and economic reasons for coastal conservation. Ocean and Coastal Management, 2015, 104, 65-77.	4.4	21
48	Integrating environmental variables by multivariate ordination enables the reliable estimation of mineland rehabilitation status. Journal of Environmental Management, 2020, 256, 109894.	7.8	21
49	Estimativa de precipitação e vazões médias para a bacia hidrográfica do rio Itacaiúnas (BHRI), Amazônia Oriental, Brasil (Estimation of Precipitation and average Flows for the Itacaiúnas River Watershed)		21
50	Title is missing!. Wetlands Ecology and Management, 2002, 10, 121-130.	1.5	20
51	Modern pollen rain as a background for palaeoenvironmental studies in the Serra dos Carajás, southeastern Amazonia. Holocene, 2017, 27, 1055-1066.	1.7	20
52	Quillworts from the Amazon: A multidisciplinary populational study on Isoetes serracarajensis and Isoetes cangae. PLoS ONE, 2018, 13, e0201417.	2.5	20
53	Native leguminous plants for mineland revegetation in the eastern Amazon: seed characteristics and germination. New Forests, 2019, 50, 859-872.	1.7	20
54	Conserving relics from ancient underground worlds: assessing the influence of cave and landscape features on obligate iron cave dwellers from the Eastern Amazon. PeerJ, 2018, 6, e4531.	2.0	20

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55	Geochemical characterization of the largest upland lake of the Brazilian Amazonia: Impact of provenance and processes. Journal of South American Earth Sciences, 2017, 80, 541-558.	1.4	18
56	UsingÂspectral analysisÂofÂLandsat-5ÂTMÂimages to mapÂcoastalÂwetlandsÂin the Amazon River mouth, Brazil. Wetlands Ecology and Management, 2014, 22, 79-92.	1.5	15
57	Tidal influence on the hydrodynamics and sediment entrapment in a major Amazon River tributary â€" Lower TapajÃ³s River. Journal of South American Earth Sciences, 2017, 79, 189-201.	1.4	15
58	Pollen morphology of the Poaceae: implications of the palynological and paleoecological records of the southeastern Amazon in Brazil. Palynology, 2018, 42, 311-323.	1.5	13
59	Dune advance into a coastal forest, equatorial Brazil: A subsurface perspective. Aeolian Research, 2010, 2, 27-32.	2.7	11
60	Seasonal, tidal, and geomorphic controls on sediment export to Amazon River tidal floodplains. Earth Surface Processes and Landforms, 2019, 44, 1846-1859.	2.5	11
61	Land cover change, landscape degradation, and restoration along a railway line in the Amazon biome, Brazil. Land Degradation and Development, 2020, 31, 2033-2046.	3.9	11
62	Landâ€use intensity of official mineral extraction in the Amazon region: Linking economic and spatial data. Land Degradation and Development, 2021, 32, 1706-1717.	3.9	11
63	Copper mining in the eastern Amazon: an environmental perspective on potentially toxic elements. Environmental Geochemistry and Health, 2022, 44, 1767-1781.	3.4	11
64	Spatial distribution of southern brown shrimp (Farfantepenaeus subtilis) on the Amazon continental shelf: a fishery, marine geology and GIS integrated approach. Brazilian Journal of Oceanography, 2015, 63, 397-406.	0.6	10
65	CLIMATE INDICATORS FOR A WATERSHED IN THE EASTERN AMAZON. Revista Brasileira De Climatologia, 0, 23, .	0.3	10
66	A Large-Scale Deep-Learning Approach for Multi-Temporal Aqua and Salt-Culture Mapping. Remote Sensing, 2021, 13, 1415.	4.0	10
67	Changes in the land cover and land use of the Itacaiunas River watershed, arc of deforestation, Carajas, southeastern Amazon. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 1491-1496.	0.2	10
68	Changes in soil properties during iron mining and in rehabilitating minelands in the Eastern Amazon. Environmental Monitoring and Assessment, 2022, 194, 256.	2.7	10
69	Pb Sr Nd isotopic tracing of the influence of the Amazon River on the bottom sediments in the lower TapajÃ³s River. Journal of South American Earth Sciences, 2016, 70, 36-48.	1.4	9
70	Potential for Forest Restoration and Deficit Compensation in ItacaiÃºnas Watershed, Southeastern Brazilian Amazon. Forests, 2019, 10, 439.	2.1	9
71	Lake sedimentary processes and vegetation changes over the last 45k cal a <scp>bp</scp> in the uplands of southâ€eastern Amazonia. Journal of Quaternary Science, 2021, 36, 255-272.	2.1	9
72	Holocene history of a lake filling and vegetation dynamics of the Serra Sul dos CarajÃ¡s, southeast Amazonia. Anais Da Academia Brasileira De Ciencias, 2019, 91, e20160916.	0.8	8

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73	Terrestrial water storage and Pacific SST affect the monthly water balance of ItacaiÃºnas River Basin (Eastern Amazonia). International Journal of Climatology, 2020, 40, 3021-3035.	3.5	7
74	Multivariate statistics and geochemical approaches for understanding source-sink relationship - a case study from close-basin lakes in Southeast Amazon. Journal of South American Earth Sciences, 2020, 99, 102497.	1.4	7
75	The sustainability index of the physical mining Environment in protected areas, Eastern Amazon. Environmental and Sustainability Indicators, 2020, 8, 100074.	3.3	7
76	GEOMORPHOLOGY OF THE BRAGANÃ‡A COASTAL ZONE, NORTHEASTERN PARÃ•STATE. Revista Brasileira De GeociÃªncias, 2000, 30, 522-526.	0.1	7
77	Spectral and Soil Quality Index for Monitoring Environmental Rehabilitation and Soil Carbon Stock in an Amazonian Sandstone Mine. Sustainability, 2022, 14, 597.	3.2	7
78	Priority areas for the conservation of the fish fauna of the Amazon Estuary in Brazil: A multicriteria approach. Ocean and Coastal Management, 2014, 100, 116-127.	4.4	6
79	Uma nova proposta de indicadores de sustentabilidade na mineraÃ§Ã£o. Sustentabilidade Em Debate, 2017, 8, 15-29.	0.2	6
80	Investigation of sewage contamination using steroid indexes in sediments of the GuajarÃ¡ Estuary (Amazon coast, Brazil). Brazilian Journal of Oceanography, 2015, 63, 501-510.	0.6	5
81	The role of fault reactivation in the development of tropical montane lakes. Earth Surface Processes and Landforms, 2020, 45, 3732-3746.	2.5	4
82	Comparison of sediment rating curves and sediment yield in subbasins of the ItacaiÃºnas River Watershed, Eastern Amazon. Revista Brasileira De Recursos Hidricos, 0, 26, .	0.5	4
83	ANÃLISE ESTATÃSTICA MULTIVARIADA DE MÃ‰TODOS DE VULNERABILIDADE FÃSICA EM ZONAS COSTEIRAS TROPICAIS. Revista Brasileira De Geomorfologia, 2016, 17, .	0.2	4
84	COMPARTIMENTAÃ‡ÃƒO MORFOLÃ"GICA DA MARGEM LESTE DA ILHA DE MARAJÃ": ZONA COSTEIRA DOS MUNICÃPIOS DE SOURE E SALVATERRA â€" ESTADO DO PARÃ• Revista Brasileira De Geomorfologia, 2010, 7, .	0.2	4
85	MAPPING OF ENVIRONMENTAL SENSITIVITY INDEX TO OIL SPILL FROM LANDSAT TM IMAGES: â€œA STUDY CASE ON THE AMAZON COASTAL PLAINâ€• Revista Brasileira De Geofisica, 2013, 30, 533.	0.2	4
86	Spectral diversity allows remote detection of the rehabilitation status in an Amazonian iron mining complex. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102653.	2.8	4
87	AnÃ¡lise faciolÃ³gica e estratigrÃ¡fica da planÃcie costeira de Soure (margem leste da ilha de MarajÃ³-PA), no trecho compreendido entre o canal do CajuÃºna e o estuÃ¡rio Paracauari. Acta Amazonica, 2007, 37, 261-268.	0.7	3
88	Chemical Composition of the Bragantino Estuary Mangrove Sediment (PA) - Brazil. Revista Virtual De Quimica, 2015, 7, 1087-1101.	0.4	3
89	Response of Water Balance Components to Changes in Soil Use and Vegetation Cover Over Three Decades in the Eastern Amazon. Frontiers in Water, 2021, 3, .	2.3	3
90	Recent sedimentation in an Amazon tidal tributary: Integrated analysis of morphology and sedimentology. Journal of South American Earth Sciences, 2021, 107, 103134.	1.4	2

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91	AÃ§aÃ-Biochar and Compost Affect the Phosphorus Sorption, Nutrient Availability, and Growth of Dioclea apurensis in Iron Mining Soil. Minerals (Basel, Switzerland), 2021, 11, 674.	2.0	2
92	Sensibilidade Ambiental a Derramamento de Ã"leo e Mapeamento de Unidades de Paisagem na RegiÃ£o PortuÃ¡ria do MaranhÃ£o. Journal of Integrated Coastal Zone Management, 2018, 18, 73-84.	0.1	2
93	Investigating Changes Driving Cumulative Impacts on Native Vegetation in Mining Regions in the Northeastern Brazilian Amazon. Environmental Management, 2022, 69, 438-448.	2.7	2
94	GENERATION AND EVALUATION OF RADARGRAMMETRIC DEM FROM RADARSAT-1 STANDARD IMAGES IN LOW RELIEF AREA IN THE AMAZON COASTAL PLAIN. Revista Brasileira De Geofisica, 2015, 32, 405.	0.2	1
95	MORPHODYNAMICS OF THE AMAZON TIDAL-RIVER FLOODPLAIN ALONG THE FLUVIALâ€"TIDAL TRANSITION. , 2017, , .		0
96	Seasonal variations in the backscatter of RADARSAT-1 images in tropical coastal environments. Brazilian Journal of Geology, 2022, 52, .	0.7	0
97	Nutrient requirements of paricÃ¡ (Schizolobium parahyba var. amazonicum): optimizing seedling quality for reforestation programs. Acta Amazonica, 2022, 52, 96-103.	0.7	0