

# Tiago Osório Ferreira

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

3,287  
citations

159585

30  
h-index

182427

51  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mine tailings in a redox-active environment: Iron geochemistry and potential environmental consequences. <i>Science of the Total Environment</i> , 2022, 807, 151050.	8.0	12
2	The rhizosphere of tropical grasses as driver of soil weathering in embryonic Technosols (SE-Brazil). <i>Catena</i> , 2022, 208, 105764.	5.0	3
3	Short-term Fe reduction and metal dynamics in estuarine soils impacted by Fe-rich mine tailings. <i>Applied Geochemistry</i> , 2022, 136, 105134.	3.0	12
4	Iron hazard in an impacted estuary: Contrasting controls of plants and implications to phytoremediation. <i>Journal of Hazardous Materials</i> , 2022, 428, 128216.	12.4	8
5	Litho-climatic characteristics and its control over mangrove soil geochemistry: A macro-scale approach. <i>Science of the Total Environment</i> , 2022, 811, 152152.	8.0	16
6	Cu Dynamics in the Rhizosphere of Native Tropical Species: Assessing the Potential for Phytostabilization in Mining-Impacted Soils. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 130.	2.0	2
7	Soybean expansion impacts on soil organic matter in the eastern region of the Maranhão State (Northeastern Brazil). <i>Soil Use and Management</i> , 2022, 38, 1203-1216.	4.9	3
8	Changes in organic carbon and microbiology community structure due to long-term irrigated agriculture on Luvisols in the Brazilian semi-arid region. <i>Catena</i> , 2022, 212, 106058.	5.0	3
9	Changes in soil iron biogeochemistry in response to mangrove dieback. <i>Biogeochemistry</i> , 2022, 158, 357-372.	3.5	6
10	Applying the Soil Management Assessment Framework (SMAF) to Assess Mangrove Soil Quality. <i>Sustainability</i> , 2022, 14, 3085.	3.2	9
11	Recovery of Soil Processes in Replanted Mangroves: Implications for Soil Functions. <i>Forests</i> , 2022, 13, 422.	2.1	1
12	Geospatial modeling and ecological and human health risk assessments of heavy metals in contaminated mangrove soils. <i>Marine Pollution Bulletin</i> , 2022, 177, 113489.	5.0	8
13	Do agrosystems change soil carbon and nutrient stocks in a semiarid environment?. <i>Journal of Arid Environments</i> , 2022, 201, 104747.	2.4	6
14	Mangrove Forests in Ecuador: A Two-Decade Analysis. <i>Forests</i> , 2022, 13, 656.	2.1	10
15	Pedogenetic processes operating at different intensities inferred by geophysical sensors and machine learning algorithms. <i>Catena</i> , 2022, 216, 106370.	5.0	1
16	Degraded mangroves as sources of trace elements to aquatic environments. <i>Marine Pollution Bulletin</i> , 2022, 181, 113834.	5.0	3
17	Screening for natural manganese scavengers: Divergent phytoremediation potentials of wetland plants. <i>Journal of Cleaner Production</i> , 2022, 365, 132811.	9.3	5
18	Occurrence and pedogenesis of acid sulfate soils in northeastern Brazil. <i>Catena</i> , 2021, 196, 104937.	5.0	10

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19	Copper release from waste rocks in an abandoned mine (NE, Brazil) and its impacts on ecosystem environmental quality. <i>Chemosphere</i> , 2021, 262, 127843.	8.2	37
20	Manganese: The overlooked contaminant in the world largest mine tailings dam collapse. <i>Environment International</i> , 2021, 146, 106284.	10.0	81
21	Parent rock–pedogenesis relationship: How the weathering of metamorphic rocks influences the genesis of Planosols and Luvisols under a semiarid climate in NE Brazil. <i>Geoderma</i> , 2021, 385, 114878.	5.1	19
22	From sinks to sources: The role of Fe oxyhydroxide transformations on phosphorus dynamics in estuarine soils. <i>Journal of Environmental Management</i> , 2021, 278, 111575.	7.8	30
23	Gypsum Amendment Induced Rapid Pyritization in Fe-Rich Mine Tailings from Doce River Estuary after the Fundão Dam Collapse. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 201.	2.0	4
24	Consequences of terminating mangrove’s protection in Brazil. <i>Marine Policy</i> , 2021, 125, 104389.	3.2	12
25	Role of Fe dynamic in release of metals at Rio Doce estuary: Unfolding of a mining disaster. <i>Marine Pollution Bulletin</i> , 2021, 166, 112267.	5.0	19
26	Soil eutrophication in seabird colonies affects cell wall composition: Implications for the conservation of rare plant species. <i>Marine Pollution Bulletin</i> , 2021, 168, 112469.	5.0	3
27	Soil Organic Matter Responses to Mangrove Restoration: A Replanting Experience in Northeast Brazil. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8981.	2.6	8
28	Long-term contamination of the Rio Doce estuary as a result of Brazil’s largest environmental disaster. <i>Perspectives in Ecology and Conservation</i> , 2021, 19, 417-428.	1.9	18
29	Long-term effects of irrigated agriculture on Luvisol pedogenesis in semi-arid region, northeastern Brazil. <i>Catena</i> , 2021, 206, 105529.	5.0	5
30	Benthic bioturbation: A canary in the mine for the retention and release of metals from estuarine sediments. <i>Marine Pollution Bulletin</i> , 2021, 172, 112912.	5.0	11
31	Ecosystem carbon losses following a climate-induced mangrove mortality in Brazil. <i>Journal of Environmental Management</i> , 2021, 297, 113381.	7.8	21
32	Windsock behavior: climatic control on iron biogeochemistry in tropical mangroves. <i>Biogeochemistry</i> , 2021, 156, 437-452.	3.5	6
33	Mineralogy and genesis of Planosols under a semi-arid climate, Borborema Plateau, NE Brazil. <i>Catena</i> , 2020, 184, 104260.	5.0	12
34	Soil quality assessment of constructed Technosols: Towards the validation of a promising strategy for land reclamation, waste management and the recovery of soil functions. <i>Journal of Environmental Management</i> , 2020, 276, 111344.	7.8	32
35	How Do Plants and Climatic Conditions Control Soil Properties in Hypersaline Tidal Flats?. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7624.	2.5	3
36	Fast pedogenesis of tropical Technosols developed from dolomitic limestone mine spoils (SE-Brazil). <i>Geoderma</i> , 2020, 374, 114439.	5.1	17

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37	Revealing Tropical Technosols as an Alternative for Mine Reclamation and Waste Management. Minerals (Basel, Switzerland), 2020, 10, 110.	2.0	18
38	Nitrogen mineralization and eutrophication risks in mangroves receiving shrimp farming effluents. Environmental Science and Pollution Research, 2020, 27, 34941-34950.	5.3	20
39	Ecological Risks of Metal and Metalloid Contamination in the Rio Doce Estuary. Integrated Environmental Assessment and Management, 2020, 16, 655-660.	2.9	54
40	Total ecosystem carbon stocks of mangroves across broad global environmental and physical gradients. Ecological Monographs, 2020, 90, e01405.	5.4	139
41	Crab Bioturbation and Seasonality Control Nitrous Oxide Emissions in Semiarid Mangrove Forests (Cear�, Brazil). Applied Sciences (Switzerland), 2020, 10, 2215.	2.5	17
42	Geographical variations in arsenic contents in rice plants from Latin America and the Iberian Peninsula in relation to soil conditions. Environmental Geochemistry and Health, 2020, 42, 3351-3372.	3.4	13
43	Land use impacts on benthic bioturbation potential and carbon burial in Brazilian mangrove ecosystems. Limnology and Oceanography, 2020, 65, 2366-2376.	3.1	20
44	Contamination and oxidative stress biomarkers in estuarine fish following a mine tailing disaster. PeerJ, 2020, 8, e10266.	2.0	45
45	Risk assessment and copper geochemistry of an orchard irrigated with mine water: a case study in the semiarid region of Brazil. Environmental Geochemistry and Health, 2019, 41, 603-615.	3.4	2
46	The Brazilian Soil Spectral Library (BSSL): A general view, application and challenges. Geoderma, 2019, 354, 113793.	5.1	100
47	The importance of blue carbon soil stocks in tropical semiarid mangroves: a case study in Northeastern Brazil. Environmental Earth Sciences, 2019, 78, 1.	2.7	15
48	Phosphorus enriched effluents increase eutrophication risks for mangrove systems in northeastern Brazil. Marine Pollution Bulletin, 2019, 142, 58-63.	5.0	61
49	Hidden contribution of shrimp farming effluents to greenhouse gas emissions from mangrove soils. Estuarine, Coastal and Shelf Science, 2019, 221, 8-14.	2.1	32
50	Does food partitioning vary in leaf-eating crabs in response to source quality?. Marine Environmental Research, 2019, 144, 72-83.	2.5	3
51	The potential of a Technosol and tropical native trees for reclamation of copper-polluted soils. Chemosphere, 2019, 220, 892-899.	8.2	24
52	Are hypersaline tidal flat soils potential silicon sinks in coastal wetlands?. Geoderma, 2019, 337, 215-224.	5.1	9
53	Chronic trace metals effects of mine tailings on estuarine assemblages revealed by environmental DNA. PeerJ, 2019, 7, e8042.	2.0	48
54	And details for land-use carbon footprints arise from quantitative and replicated studies. Frontiers in Ecology and the Environment, 2018, 16, 12-13.	4.0	10

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55	Seabird colonies as important global drivers in the nitrogen and phosphorus cycles. <i>Nature Communications</i> , 2018, 9, 246.	12.8	135
56	Are acid volatile sulfides (AVS) important trace metals sinks in semi-arid mangroves?. <i>Marine Pollution Bulletin</i> , 2018, 126, 318-322.	5.0	20
57	Weathering and clay formation in semi-arid calcareous soils from Northeastern Brazil. <i>Catena</i> , 2018, 162, 325-332.	5.0	24
58	Geochemical signatures and weathering rates in soils derived from different granites in contrasting climatic locations. <i>Acta Scientiarum - Agronomy</i> , 2018, 41, 39708.	0.6	3
59	Screening of native tropical trees for phytoremediation in copper-polluted soils. <i>International Journal of Phytoremediation</i> , 2018, 20, 1456-1463.	3.1	19
60	Role of Redox Processes in the Pedogenesis of Hypersaline Tidal Flat Soils on the Brazilian Coast. <i>Soil Science Society of America Journal</i> , 2018, 82, 1217-1230.	2.2	6
61	Carbon stocks of mangroves and salt marshes of the Amazon region, Brazil. <i>Biology Letters</i> , 2018, 14, 20180208.	2.3	62
62	Trace elements in biomaterials and soils from a Yellow-legged gull ( <i>Larus michahellis</i> ) colony in the Atlantic Islands of Galicia National Park (NW Spain). <i>Marine Pollution Bulletin</i> , 2018, 133, 144-149.	5.0	19
63	Pedological Studies of Subaqueous Soils as a Contribution to the Protection of Seagrass Meadows in Brazil. <i>Revista Brasileira De Ciencia Do Solo</i> , 2018, 42, .	1.3	5
64	Shrimp ponds lead to massive loss of soil carbon and greenhouse gas emissions in northeastern Brazilian mangroves. <i>Ecology and Evolution</i> , 2018, 8, 5530-5540.	1.9	92
65	The Samarco mine tailing disaster: A possible time-bomb for heavy metals contamination?. <i>Science of the Total Environment</i> , 2018, 637-638, 498-506.	8.0	191
66	A COCORRÃŠNCIA DE PLANTAS NA CAATINGA PODE SER EXPLICADA PELO PROCESSO DE FACILITAÃŠFO? ESTUDO DE CASO COM DUAS ESPÃŠCIES DE FABACEAE. <i>Ciencia Florestal</i> , 2018, 28, 1514.	0.3	1
67	The mangrove reactor: Fast clay transformation and potassium sink. <i>Applied Clay Science</i> , 2017, 140, 50-58.	5.2	38
68	High fragility of the soil organic C pools in mangrove forests. <i>Marine Pollution Bulletin</i> , 2017, 119, 460-464.	5.0	28
69	High heterogeneity in soil composition and quality in different mangrove forests of Venezuela. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 511.	2.7	11
70	Biogeochemical Cycles: Global Approaches and Perspectives. , 2017, , 163-209.		16
71	Diffuse Reflectance Spectroscopy (Visâ€Nirâ€Swir) as a Promising Tool for Blue Carbon Quantification in Mangrove Soils: A Case of Study in Tropical Semiarid Climatic Conditions. <i>Soil Science Society of America Journal</i> , 2017, 81, 1661-1667.	2.2	6
72	Copper Biogeochemistry in Response to Rhizosphere Soil Processes Under Four Native Plant Species Growing Spontaneously in an Abandoned Mine Site in NE Brazil. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	13

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73	Iron biogeochemistry in Holocene palaeo and actual salt marshes in coastal areas of the Pampean Plain, Argentina. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	6
74	Arsenic in rice agrosystems (water, soil and rice plants) in Guayas and Los R�os provinces, Ecuador. <i>Science of the Total Environment</i> , 2016, 573, 778-787.	8.0	42
75	Weathering rates and carbon storage along a climosequence of soils developed from contrasting granites in northeast Brazil. <i>Geoderma</i> , 2016, 284, 1-12.	5.1	24
76	The role of bioturbation by <i>Ucides cordatus</i> crab in the fractionation and bioavailability of trace metals in tropical semiarid mangroves. <i>Marine Pollution Bulletin</i> , 2016, 111, 194-202.	5.0	35
77	Edaphic factors controlling summer (rainy season) greenhouse gas emissions (CO <sub>2</sub> and CH <sub>4</sub> ) from semiarid mangrove soils (NE-Brazil). <i>Science of the Total Environment</i> , 2016, 542, 685-693.	8.0	63
78	Comparison of the quantitative determination of soil organic carbon in coastal wetlands containing reduced forms of Fe and S. <i>Geo-Marine Letters</i> , 2016, 36, 223-233.	1.1	15
79	Teor de nutrientes e viabilidade da bananicultura em Cambissolos com diferentes profundidades. <i>Bragantia</i> , 2016, 75, 335-343.	1.3	0
80	Trace metal/metalloid concentrations in waste rock, soils and spontaneous plants in the surroundings of an abandoned mine in semi-arid NE-Brazil. <i>Environmental Earth Sciences</i> , 2015, 74, 5427-5441.	2.7	21
81	Phosphorus in seagull colonies and the effect on the habitats. The case of yellow-legged gulls ( <i>Larus</i> ) Tj ETQq1 1 0.784314 rgBT /Over Environment, 2015, 532, 383-397.	8.0	45
82	Copper accumulation and changes in soil physical�chemical properties promoted by native plants in an abandoned mine site in northeastern Brazil: Implications for restoration of mine sites. <i>Ecological Engineering</i> , 2015, 82, 103-111.	3.6	25
83	Evaluation of methods for quantifying organic carbon in mangrove soils from semi-arid region. <i>Journal of Soils and Sediments</i> , 2015, 15, 282-291.	3.0	52
84	Effects of slope orientation on pedogenesis of altimontane soils from the Brazilian semi-arid region (Baturit� massif, Cear�). <i>Environmental Earth Sciences</i> , 2015, 73, 3731-3743.	2.7	14
85	Pyrite as a proxy for the identification of former coastal lagoons in semiarid NE Brazil. <i>Geo-Marine Letters</i> , 2015, 35, 355-366.	1.1	8
86	Genesis of cohesive soil horizons from north-east Brazil: role of argilluviation and sorting of sand. <i>Soil Research</i> , 2015, 53, 43.	1.1	17
87	Assessment of Soil Moisture by Family Farmers Under Multi-Cropping Systems in a Semiarid Region. <i>Agroecology and Sustainable Food Systems</i> , 2015, 39, 747-761.	1.9	0
88	Soil genesis and iron nodules in a karst environment of the Apodi Plateau. <i>Revista Ciencia Agronomica</i> , 2014, 45, 683-695.	0.3	8
89	Variabilidade espacial dos atributos qu�micos do solo, associada ao microrrelevo. <i>Revista Brasileira De Engenharia Agr�cola E Ambiental</i> , 2014, 18, 141-149.	1.1	13
90	Population biology of the crab <i>Goniopsis cruentata</i> : variation in body size, sexual maturity, and population density. <i>Animal Biology</i> , 2014, 64, 383-394.	1.0	3

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91	Trace metal pyritization variability in response to mangrove soil aerobic and anaerobic oxidation processes. <i>Marine Pollution Bulletin</i> , 2014, 79, 365-370.	5.0	35
92	The effect of nutrient-rich effluents from shrimp farming on mangrove soil carbon storage and geochemistry under semi-arid climate conditions in northern Brazil. <i>Geoderma</i> , 2014, 213, 551-559.	5.1	74
93	Archaeal diversity and the extent of iron and manganese pyritization in sediments from a tropical mangrove creek (Cardoso Island, Brazil). <i>Estuarine, Coastal and Shelf Science</i> , 2014, 146, 1-13.	2.1	18
94	Hypersaline tidal flats (apicum ecosystems): the weak link in the tropical wetlands chain. <i>Environmental Reviews</i> , 2014, 22, 99-109.	4.5	25
95	Phosphorus geochemistry in a Brazilian semiarid mangrove soil affected by shrimp farm effluents. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 5749-5762.	2.7	44
96	Geochemical speciation and dynamic of copper in tropical semi-arid soils exposed to metal-bearing mine wastes. <i>Science of the Total Environment</i> , 2014, 500-501, 91-102.	8.0	25
97	Changes in soil pore network in response to twenty-three years of irrigation in a tropical semiarid pasture from northeast Brazil. <i>Soil and Tillage Research</i> , 2014, 137, 23-32.	5.6	24
98	Soil genesis on hypersaline tidal flats (apicum ecosystem) in a tropical semi-arid estuary (Ceará, Brazil). <i>Geoderma</i> , 2013, 111, 107-116.	1.1	26
99	Iron and sulfur geochemistry in semi-arid mangrove soils (Ceará, Brazil) in relation to seasonal changes and shrimp farming effluents. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7393-7407.	2.7	66
100	Bedload sediment and nutrient losses in agro-ecosystems of the Brazilian semiarid region. <i>Nutrient Cycling in Agroecosystems</i> , 2013, 96, 203-213.	2.2	3
101	Sand as a relevant fraction in geochemical studies in intertidal environments. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7945-7959.	2.7	12
102	Microrrelevo e a distribuição de frações granulométricas em Cambissolos de origem calcárea. <i>Revista Ciencia Agronomica</i> , 2013, 44, 676-684.	0.3	9
103	Etnopedologia: uma abordagem das etnicidades sobre as relações entre as sociedades e os solos. <i>Ciencia Rural</i> , 2013, 43, 854-860.	0.5	3
104	Profundidade e atributos físicos do solo e seus impactos nas raízes de bananeiras. <i>Revista Brasileira De Fruticultura</i> , 2013, 35, 536-545.	0.5	7
105	Evaluation of soil structure using participatory methods in the semiarid region of Brazil. <i>Revista Ciencia Agronomica</i> , 2013, 44, 411-418.	0.3	3
106	Selective geochemistry of iron in mangrove soils in a semiarid tropical climate: effects of the burrowing activity of the crabs <i>Ucides cordatus</i> and <i>Uca maracoani</i> . <i>Geo-Marine Letters</i> , 2012, 32, 289-300.	1.1	52
107	Carbon and nitrogen in degraded Brazilian semi-arid soils undergoing desertification. <i>Agriculture, Ecosystems and Environment</i> , 2012, 148, 11-21.	5.3	69
108	Soil profile, relief features and their relation to structure and distribution of Brazilian Atlantic rain forest trees. <i>Scientia Agricola</i> , 2012, 69, 61-69.	1.2	4

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109	ContribuiçŁo de material amorfo na gÊnese de horizontes coesos em Argissolos dos Tabuleiros Costeiros do CearÁ. Revista Ciencia Agronomica, 2012, 43, 623-632.	0.3	12
110	Profundidade do solo e micro-relevo em bananais irrigados: impactos na nutriçŁo mineral e potencial produtivo. Revista Ciencia Agronomica, 2011, 42, 567-578.	0.3	5
111	Spatial patterns of soil attributes and components in a mangrove system in Southeast Brazil (SŁo) Tj ETQq1 1 0.784314 rgBT /Overl	3.0	84
112	Geochemistry of iron and manganese in soils and sediments of a mangrove system, Island of Pai Matos (Cananeia - SP, Brazil). Geoderma, 2009, 148, 318-335.	5.1	150
113	Redox Processes in Mangrove Soils under Rhizophora mangle in Relation to Different Environmental Conditions. Soil Science Society of America Journal, 2007, 71, 484-491.	2.2	63
114	Are mangrove forest substrates sediments or soils? A case study in southeastern Brazil. Catena, 2007, 70, 79-91.	5.0	58
115	Effects of bioturbation by root and crab activity on iron and sulfur biogeochemistry in mangrove substrate. Geoderma, 2007, 142, 36-46.	5.1	134
116	EvoluçŁo quaternÁria, distribuiçŁo de partÁculas nos solos e ambientes de sedimentaçŁo em manguezais do estado de SŁo Paulo. Revista Brasileira De Ciencia Do Solo, 2007, 31, 753-769.	1.3	17
117	Spatial variation in pore water geochemistry in a mangrove system (Pai Matos island, Cananeia-Brazil). Applied Geochemistry, 2006, 21, 2171-2186.	3.0	72
118	Mineralogia e fÁsico-quÁmica dos solos de mangue do rio Iriri no canal de Bertioga (Santos, SP). Revista Brasileira De Ciencia Do Solo, 2004, 28, 233-243.	1.3	26