Odair Pastor Ferreira

List of Publications by Year
in descending order

83 papers	2,213 citations	201385 27 h-index	243296 44 g-index
83 all docs	83 docs citations	83 times ranked	2890 citing authors

#	Article	IF	Citations
1	Evaluation of boron removal from water by hydrotalcite-like compounds. Chemosphere, 2006, 62, 80-88.	4.2	158
2	1,2-Dichlorobenzene Interacting with Carbon Nanotubes. Nano Letters, 2004, 4, 1285-1288.	4.5	153
3	Thermal decomposition and structural reconstruction effect on Mgâ€“Fe-based hydrotalcite compounds. Journal of Solid State Chemistry, 2004, 177, 3058-3069.	1.4	137
4	Alkali metal intercalated titanate nanotubes: A vibrational spectroscopy study. Vibrational Spectroscopy, 2011, 55, 183-187.	1.2	95
5	Unveiling the structure and composition of titanium oxide nanotubes through ion exchange chemical reactions and thermal decomposition processes. Journal of the Brazilian Chemical Society, 2006, 17, 393-402.	0.6	90
6	Raman Spectra in Vanadate Nanotubes Revisited. Nano Letters, 2004, 4, 2099-2104.	4.5	81
7	Structural, morphological and vibrational properties of titanate nanotubes and nanoribbons. Journal of the Brazilian Chemical Society, 2009, 20, 167-175.	0.6	58
8	Release of nutrients and organic carbon in different soil types from hydrochar obtained using sugarcane bagasse and vinasse. Geoderma, 2019, 334, 24-32.	2.3	58
9	Inclusion complexes of pyrimethamine in 2-hydroxypropyl-Î²-cyclodextrin: Characterization, phase solubility and molecular modelling. Bioorganic and Medicinal Chemistry, 2007, 15, 5752-5759.	1.4	56
10	Decorating Titanate Nanotubes with CeO₂ Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 20234-20239.	1.5	56
11	Biomorphic activated porous carbons with complex microstructures from lignocellulosic residues. Microporous and Mesoporous Materials, 2008, 107, 276-285.	2.2	55
12	Titanate nanotubes as acid catalysts for acetalization of glycerol with acetone: Influence of the synthesis time and the role of structure on the catalytic performance. Chemical Engineering Journal, 2017, 313, 1454-1467.	6.6	54
13	Structural and electrochemical properties of babassu coconut mesocarp-generated activated carbon and few-layer graphene. Carbon, 2019, 145, 175-186.	5.4	52
14	Structural and thermal properties of Coâ€“Cuâ€“Fe hydrotalcite-like compounds. Journal of Solid State Chemistry, 2005, 178, 142-152.	1.4	51
15	Humic extracts of hydrochar and Amazonian Dark Earth: Molecular characteristics and effects on maize seed germination. Science of the Total Environment, 2020, 708, 135000.	3.9	48
16	Transforming Sugarcane Bagasse and Vinasse Wastes into Hydrochar in the Presence of Phosphoric Acid: An Evaluation of Nutrient Contents and Structural Properties. Waste and Biomass Valorization, 2017, 8, 1139-1151.	1.8	42
17	Effect of the reaction medium on the immobilization of nutrients in hydrochars obtained using sugarcane industry residues. Bioresource Technology, 2017, 237, 213-221.	4.8	40
18	Deposition of copper sulfide on modified low-density polyethylene surface: morphology and electrical characterization. Applied Surface Science, 2002, 202, 223-231.	3.1	38

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19	Niâ€“Fe and Coâ€“Fe binary oxides derived from layered double hydroxides and their catalytic evaluation for hydrogen production. Catalysis Today, 2015, 250, 155-165.	2.2	38
20	Toxicity evaluation of process water from hydrothermal carbonization of sugarcane industry by-products. Environmental Science and Pollution Research, 2019, 26, 27579-27589.	2.7	37
21	Humic-like acids from hydrochars: Study of the metal complexation properties compared with humic acids from anthropogenic soils using PARAFAC and time-resolved fluorescence. Science of the Total Environment, 2020, 722, 137815.	3.9	36
22	In situ growth of manganese oxide nanosheets over titanium dioxide nanofibers and their performance as active material for supercapacitor. Journal of Colloid and Interface Science, 2019, 555, 373-382.	5.0	35
23	Structural and electrochromic study of polypyrrole synthesized with azo and anthraquinone dyes. Journal of Electroanalytical Chemistry, 2006, 591, 27-32.	1.9	34
24	Metal cations intercalated titanate nanotubes as catalysts for Î±,Î² unsaturated esters production. Applied Catalysis A: General, 2013, 454, 74-80.	2.2	31
25	Study of the growth of CeO2 nanoparticles onto titanate nanotubes. Journal of Physics and Chemistry of Solids, 2015, 87, 213-220.	1.9	31
26	CO2 Sensing by in-situ Raman spectroscopy using activated carbon generated from mesocarp of babassu coconut. Vibrational Spectroscopy, 2018, 98, 111-118.	1.2	31
27	One-Dimensional Nanostructures from Layered Manganese Oxide. Crystal Growth and Design, 2006, 6, 601-606.	1.4	30
28	Machine Learning and Natural Language Processing Enable a Data-Oriented Experimental Design Approach for Producing Biochar and Hydrochar from Biomass. Chemistry of Materials, 2022, 34, 979-990.	3.2	28
29	Pressure-induced radial collapse in few-wall carbon nanotubes: A combined theoretical and experimental study. Carbon, 2017, 125, 429-436.	5.4	27
30	Synthesis of silver-cerium titanate nanotubes and their surface properties and antibacterial applications. Materials Science and Engineering C, 2020, 115, 111051.	3.8	26
31	Strategic design of magnetic carbonaceous nanocomposites and its application as multifunctional adsorbent. Carbon, 2020, 161, 758-771.	5.4	25
32	Amino-functionalized titanate nanotubes for highly efficient removal of anionic dye from aqueous solution. Applied Surface Science, 2020, 512, 145659.	3.1	21
33	Humic extracts from hydrochar and Amazonian Anthrosol: Molecular features and metal binding properties using EEM-PARAFAC and 2D FTIR correlation analyses. Chemosphere, 2020, 256, 127110.	4.2	21
34	Atomic-layered MoS2 on SiO2 under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, .	0.9	21
35	Interaction of sodium titanate nanotubes with organic acids and base: chemical, structural and morphological stabilities. Journal of the Brazilian Chemical Society, 2010, 21, 1341-1348.	0.6	20
36	Electrical, spectroscopic, and thermal properties of blends formed by PEDOT, PVC, and PEO. Journal of Applied Polymer Science, 2005, 96, 1710-1715.	1.3	19

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37	Photoluminescence Enhancement of Titanate Nanotubes by Insertion of Rare Earth Ions in Their Interlayer Spaces. Journal of Nanomaterials, 2017, 2017, 1-9.	1.5	19
38	Highlighting the mechanisms of the titanate nanotubes to titanate nanoribbons transformation. Journal of Nanoparticle Research, 2011, 13, 3259-3265.	0.8	17
39	Titanate-based one-dimensional nano-heterostructure: Study of hydrothermal reaction parameters for improved photocatalytic application. Solid State Sciences, 2019, 98, 106043.	1.5	16
40	One-Pot Synthesis of Titanate Nanotubes Decorated with Anatase Nanoparticles Using a Microwave-Assisted Hydrothermal Reaction. Journal of Nanomaterials, 2019, 2019, 1-10.	1.5	16
41	Ecomateriais: desenvolvimento e aplicaÃ§Ã£o de materiais porosos funcionais para proteÃ§Ã£o ambiental. Quimica Nova, 2007, 30, 464-467.	0.3	15
42	Morphological analysis of soil particles at multiple length-scale reveals nutrient stocks of Amazonian Anthrosols. Geoderma, 2018, 311, 58-66.	2.3	15
43	Silver nanoparticles (AgNPs) internalization and passage through the Lactuca sativa (Asteraceae) outer cell wall. Functional Plant Biology, 2021, 48, 1113-1123.	1.1	15
44	Hydrochar from sugarcane industry by-products: assessment of its potential use as a soil conditioner by germination and growth of maize. Chemical and Biological Technologies in Agriculture, 2021, 8, .	1.9	14
45	Large-Field Electron Imaging and X-ray Elemental Mapping Unveil the Morphology, Structure, and Fractal Features of a Cretaceous Fossil at the Centimeter Scale. Analytical Chemistry, 2015, 87, 10088-10095.	3.2	13
46	Template conversion of MoO₃ to MoS₂ nanoribbons: synthesis and electrochemical properties. RSC Advances, 2018, 8, 30346-30353.	1.7	13
47	On the formation of protein corona on colloidal nanoparticles stabilized by depletant polymers. Materials Science and Engineering C, 2019, 105, 110080.	3.8	13
48	Fluorescence Based Platform to Discriminate Protein Using Carbon Quantum Dots. ChemistrySelect, 2019, 4, 5619-5627.	0.7	13
49	Toxic effects of silver nanoparticles on the germination and root development of lettuce (Lactuca) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	12
50	Homogeneously dispersed CeO2 nanoparticles on exfoliated hexaniobate nanosheets. Journal of Physics and Chemistry of Solids, 2017, 111, 335-342.	1.9	11
51	Fulvic acids from Amazonian anthropogenic soils: Insight into the molecular composition and copper binding properties using fluorescence techniques. Ecotoxicology and Environmental Safety, 2020, 205, 111173.	2.9	11
52	Insights on Molecular Characteristics of Hydrochars by 13C-NMR and Off-Line TMAH-GC/MS and Assessment of Their Potential Use as Plant Growth Promoters. Molecules, 2021, 26, 1026.	1.7	11
53	Vibrational and thermal properties of crystalline topiramate. Journal of the Brazilian Chemical Society, 2008, 19, 1607-1613.	0.6	10
54	Hydrochar obtained with by-products from the sugarcane industry: Molecular features and effects of extracts on maize seed germination. Journal of Environmental Management, 2021, 281, 111878.	3.8	10

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55	Titanate nanotubes: Effect of rare earth insertion, thermal treatment and their optical properties. Optical Materials, 2022, 127, 112302.	1.7	10
56	Hydrochar as protein support: preservation of biomolecule properties with non-covalent immobilization. Journal of Materials Science, 2017, 52, 13378-13389.	1.7	8
57	Application of Carbon-Based Nanomaterials as Fertilizers in Soils. , 2019, , 305-333.		8
58	Organophosphorus halloysite nanotubes as adsorbent for lead preconcentration in wine and grape juice. Applied Clay Science, 2021, 200, 105912.	2.6	8
59	Hydrothermal carbonization of sugarcane industry by-products and process water reuse: structural, morphological, and fuel properties of hydrochars. Biomass Conversion and Biorefinery, 2022, 12, 153-161.	2.9	8
60	Recycling dodecylamine intercalated vanadate nanotubes. Journal of Nanoparticle Research, 2010, 12, 367-372.	0.8	7
61	Factorial design of experiments for extraction and screening analysis of organic compounds in hydrochar and its process water of sugar cane bagasse and vinasse. Biomass Conversion and Biorefinery, 2022, 12, 81-90.	2.9	7
62	Hydrothermal Carbonization of Waste Babassu Coconut Biomass for Solid Fuel Production. Revista Virtual De Quimica, 2019, 11, 626-641.	0.1	7
63	Carbon-dots from babassu coconut (Orbignya speciosa) biomass: Synthesis, characterization, and toxicity to Daphnia magna. Carbon Trends, 2021, 5, 100133.	1.4	7
64	Silica Nanoparticles and Surface Silanization for the Fabrication of Water-Repellent Cotton Fibers. ACS Applied Nano Materials, 2022, 5, 4634-4647.	2.4	7
65	Probing the thermal decomposition process of layered double hydroxides through in situ 57Fe MÃ¶ssbauer and in situ X-ray diffraction experiments. Journal of Materials Science, 2007, 42, 534-538.	1.7	6
66	Performance Evaluation of Titanate Nanotubes and Nanoribbons Deposited by Electrophoresis in Photoelectrodes of Dye-Sensitized Solar Cells. Materials Research, 2018, 21, .	0.6	6
67	Semivolatile organic compounds in the products from hydrothermal carbonisation of sugar cane bagasse and vinasse by gas chromatography-mass spectrometry. Bioresource Technology Reports, 2020, 12, 100594.	1.5	6
68	Non-covalent interaction of benzonitrile with single-walled carbon nanotubes. Journal of Nanoparticle Research, 2009, 11, 2163-2170.	0.8	5
69	Raman spectroscopy for probing covalent functionalization of single-wall carbon nanotubes bundles with gold nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	5
70	Ordered porous carbons from hydrothermally treated biomass: Effects of the thermal treatments on the structure and porosity. Vibrational Spectroscopy, 2020, 111, 103175.	1.2	5
71	Chelating properties of humic-like substances obtained from process water of hydrothermal carbonization. Environmental Technology and Innovation, 2021, 23, 101688.	3.0	5
72	Valorisation of sugar cane bagasse using hydrothermal carbonisation in the preparation of magnetic carbon nanocomposite in a singleâ€step synthesis applied to chromium adsorption. Journal of Chemical Technology and Biotechnology, 2022, 97, 2032-2046.	1.6	4

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73	Carbon Nanotubes: From Synthesis to Genotoxicity. Nanomedicine and Nanotoxicology, 2014, , 125-152.	0.1	3
74	Resource Letter N-1: Nanotechnology. American Journal of Physics, 2014, 82, 8-22.	0.3	3
75	Nanostructures of sodium titanate/zirconium oxide. Journal of Nanoparticle Research, 2010, 12, 2355-2361.	0.8	2
76	New Proposal for Sugarcane Vinasse Treatment by Hydrothermal Carbonization: An Evaluation of Solid and Liquid Products. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
77	Synthesis of Novel Catalytic Materials: Titania Nanotubes and Transition Metal Carbides, Nitrides, and Sulfides. , 2019, , 13-40.		2
78	DISPONIBILIDADE DE NUTRIENTES E CARBONO ORGÃ‚NICO EM SOLOS CONTENDO CARVÃƒO HIDROTÃ‰RMICO LAVADO E NÃƒO LAVADO E COMPARAÃ‡Ã•ES COM SOLOS ANTROPOGÃŠNICOS. Quimica Nova, 2019, , .	0.3	2
79	Carbon nanotube-doped tellurite glasses. , 2008, , .		1
80	Photoelectrodes with titanate nanotubes sensitized by mesoporphyrin derivative from cashew nut shell. Revista Materia, 2019, 24, .	0.1	1
81	Hydrochars produced with by-products from the sucroenergetic industry: a study of extractor solutions on nutrient and organic carbon release. Environmental Science and Pollution Research, 2019, 26, 9137-9145.	2.7	1
82	Chemical and Spectroscopic Characteristics of Anthrosol (Amazonian Dark Earth) and Surrounding Soil from the Brazilian Amazon Forest: Evaluation of Mineral and Organic Matter Content by Depth. Journal of the Brazilian Chemical Society, 0, , .	0.6	0
83	Increase of Fluorescence of Humic-Like Substances in Interaction with Cd(II): a Photoinduced Charge Transfer Approach. Journal of Fluorescence, 0, , .	1.3	0