A F Sousa

List of Publications by Year
in descending order

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50 papers	3,210 citations	218592 26 h-index	197736 49 g-index
51 all docs	51 docs citations	51 times ranked	2965 citing authors

#	Article	IF	Citations
1	Plastics from renewable sources as green and sustainable alternatives. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100557.	3.2	19
2	From PEF to rPEF: disclosing the potential of deep eutectic solvents in continuous de-/re-polymerization recycling of biobased polyesters. Green Chemistry, 2022, 24, 3115-3119.	4.6	12
3	Developing future visions for bio-plastics substituting PET â€" A backcasting approach. Sustainable Production and Consumption, 2022, 31, 370-383.	5.7	22
4	Bisfuranic copolyesters bearing nitrated units: synthesis, thermal properties and degradation essays. Journal of Polymer Research, 2022, 29, .	1.2	1
5	Unravelling the para- and ortho-benzene substituent effect on the glass transition of renewable wholly (hetero-)aromatic polyesters bearing 2,5-furandicarboxylic moieties. European Polymer Journal, 2021, 150, 110413.	2.6	10
6	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. Green Chemistry, 2021, 23, 8795-8820.	4.6	77
7	Biobased furanic derivatives for sustainable development. Green Chemistry, 2021, 23, 9721-9722.	4.6	5
8	A Perspective on PEF Synthesis, Properties, and End-Life. Frontiers in Chemistry, 2020, 8, 585.	1.8	110
9	Enzymatic Synthesis of Poly(caprolactone): A QM/MM Study. ChemCatChem, 2020, 12, 4845-4852.	1.8	7
10	Asymmetric Monomer, Amorphous Polymer? Structureâ€"Property Relationships in 2,4-FDCA and 2,4-PEF. Macromolecules, 2020, 53, 1380-1387.	2.2	24
11	Replacing Di(2-ethylhexyl) Terephthalate by Di(2-ethylhexyl) 2,5-Furandicarboxylate for PVC Plasticization: Synthesis, Materials Preparation and Characterization. Materials, 2019, 12, 2336.	1.3	25
12	Highly transparent films of new copolyesters derived from terephthalic and 2,4-furandicarboxylic acids. Polymer Chemistry, 2019, 10, 5324-5332.	1.9	22
13	Co-Polymers based on Poly(1,4-butylene 2,5-furandicarboxylate) and Poly(propylene oxide) with Tuneable Thermal Properties: Synthesis and Characterization. Materials, 2019, 12, 328.	1.3	9
14	Cinnamic acid derivatives as promising building blocks for advanced polymers: synthesis, properties and applications. Polymer Chemistry, 2019, 10, 1696-1723.	1.9	66
15	Tailored design of renewable copolymers based on poly(1,4-butylene 2,5-furandicarboxylate) and poly(ethylene glycol) with refined thermal properties. Polymer Chemistry, 2018, 9, 722-731.	1.9	49
16	Inside PEF: Chain Conformation and Dynamics in Crystalline and Amorphous Domains. Macromolecules, 2018, 51, 3515-3526.	2.2	110
17	Furanoate-Based Nanocomposites: A Case Study Using Poly(Butylene 2,5-Furanoate) and Poly(Butylene) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	28
18	Bio-based poly(butylene 2,5-furandicarboxylate)-b-poly(ethylene glycol) copolymers with adjustable degradation rate and mechanical properties: Synthesis and characterization. European Polymer Journal, 2018, 106, 42-52.	2.6	57

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19	Improving the Thermal Properties of Poly(2,5â€furandicarboxylate)s Using Cyclohexylene Moieties: A Comparative Study. Macromolecular Chemistry and Physics, 2017, 218, 1600492.	1.1	28
20	Thermosetting AESO-bacterial cellulose nanocomposite foams with tailored mechanical properties obtained by Pickering emulsion templating. Polymer, 2017, 118, 127-134.	1.8	25
21	Poly(1,20-eicosanediyl 2,5-furandicarboxylate), a biodegradable polyester from renewable resources. European Polymer Journal, 2017, 90, 301-311.	2.6	45
22	Increasing the Bile Acid Sequestration Performance of Cationic Hydrogels by Using an Advanced/Controlled Polymerization Technique. Pharmaceutical Research, 2017, 34, 1934-1943.	1.7	6
23	Unravelling the distinct crystallinity and thermal properties of suberin compounds from Quercus suber and Betula pendula outer barks. International Journal of Biological Macromolecules, 2016, 93, 686-694.	3.6	12
24	Renewable-based poly((ether)ester)s from 2,5-furandicarboxylic acid. Polymer, 2016, 98, 129-135.	1.8	58
25	New unsaturated copolyesters based on 2,5-furandicarboxylic acid and their crosslinked derivatives. Polymer Chemistry, 2016, 7, 1049-1058.	1.9	60
26	Polyethylene Terephthalate: Copolyesters, Composites, and Renewable Alternatives. , 2015, , 113-141.		7
27	Biobased polyesters and other polymers from 2,5-furandicarboxylic acid: a tribute to furan excellency. Polymer Chemistry, 2015, 6, 5961-5983.	1.9	531
28	A New Generation of Furanic Copolyesters with Enhanced Degradability: Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (2, Physics, 2014, 215, 2175-2184.	1.1	92
29	Unveiling the dual role of the cholinium hexanoate ionic liquid as solvent and catalyst in suberin depolymerisation. RSC Advances, 2014, 4, 2993-3002.	1.7	42
30	The quest for sustainable polyesters â€“ insights into the future. Polymer Chemistry, 2014, 5, 3119-3141.	1.9	438
31	One-pot synthesis of biofoams from castor oil and cellulose microfibers for energy absorption impact materials. Cellulose, 2014, 21, 1723-1733.	2.4	12
32	Ex Situ Reconstitution of the Plant Biopolyester Suberin as a Film. Biomacromolecules, 2014, 15, 1806-1813.	2.6	44
33	Novel sustainable composites prepared from cork residues and biopolymers. Biomass and Bioenergy, 2013, 55, 148-155.	2.9	39
34	Phenolic composition and antioxidant activity of industrial cork by-products. Industrial Crops and Products, 2013, 47, 262-269.	2.5	65
35	Microwave assisted extraction of betulin from birch outer bark. RSC Advances, 2013, 3, 21285.	1.7	14
36	Isolation of suberin from birch outer bark and cork using ionic liquids: A new source of macromonomers. Industrial Crops and Products, 2013, 44, 520-527.	2.5	76

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37	New copolyesters derived from terephthalic and 2,5-furandicarboxylic acids: A step forward in the development of biobased polyesters. Polymer, 2013, 54, 513-519.	1.8	136
38	Suberin isolation from cork using ionic liquids: characterisation of ensuing products. New Journal of Chemistry, 2012, 36, 2014.	1.4	54
39	Synthesis of aliphatic suberin-like polyesters by ecofriendly catalytic systems. High Performance Polymers, 2012, 24, 4-8.	0.8	29
40	Novel suberinâ€based biopolyesters: From synthesis to properties. Journal of Polymer Science Part A, 2011, 49, 2281-2291.	2.5	48
41	Quercus suber and Betula pendula outer barks as renewable sources of oleochemicals: A comparative study. Industrial Crops and Products, 2009, 29, 126-132.	2.5	100
42	The furan counterpart of poly(ethylene terephthalate): An alternative material based on renewable resources. Journal of Polymer Science Part A, 2009, 47, 295-298.	2.5	425
43	Determination of the Hydroxy and Carboxylic Acid Groups in Natural Complex Mixtures of Hydroxy Fatty Acids by ¹H Nuclear Magnetic Resonance Spectroscopy. Applied Spectroscopy, 2009, 63, 873-878.	1.2	10
44	Synthesis and Characterization of Novel Biopolyesters from Suberin and Model Comonomers. ChemSusChem, 2008, 1, 1020-1025.	3.6	45
45	Triterpenic and Other Lipophilic Components from Industrial Cork Byproducts. Journal of Agricultural and Food Chemistry, 2006, 54, 6888-6893.	2.4	60
46	Improving regioselectivity in the rhodium catalyzed hydroformylation of protoporphyrin-IX and chlorophyll a derivatives. Journal of Molecular Catalysis A, 2005, 235, 185-193.	4.8	10
47	Polymer distribution in connected spherical domains. Journal of Chemical Physics, 2005, 122, 214902.	1.2	9
48	Infrared spectroscopy and the characterization of terfenadine crystallized from solvents. Journal of Thermal Analysis and Calorimetry, 2003, 73, 763-774.	2.0	0
49	Molecular dynamics simulation of the terfenadine monomer and dimer, including solvent effects. Molecular Physics, 2003, 101, 871-879.	0.8	1
50	Solvation of alkane and alcohol molecules. Energy contributions. Physical Chemistry Chemical Physics, 2001, 3, 4001-4009.	1.3	25