Shanmugam Thiyagarajan

List of Publications by Year
in descending order

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Version: 2024-02-01

25 papers	982 citations	394390 19 h-index	580810 25 g-index
26 all docs	26 docs citations	26 times ranked	820 citing authors

#	Article	IF	Citations
1	Biobased furandicarboxylic acids (FDCAs): effects of isomeric substitution on polyester synthesis and properties. Green Chemistry, 2014, 16, 1957-1966.	9.0	153
2	A Facile Solidâ€Phase Route to Renewable Aromatic Chemicals from Biobased Furanics. Angewandte Chemie - International Edition, 2016, 55, 1368-1371.	13.8	81
3	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. Green Chemistry, 2021, 23, 8795-8820.	9.0	77
4	Isohexide Derivatives from Renewable Resources as Chiral Building Blocks. ChemSusChem, 2011, 4, 599-603.	6.8	76
5	Substituted Phthalic Anhydrides from Biobased Furanics: A New Approach to Renewable Aromatics. ChemSusChem, 2015, 8, 3052-3056.	6.8	62
6	Concurrent formation of furan-2,5- and furan-2,4-dicarboxylic acid: unexpected aspects of the Henkel reaction. RSC Advances, 2013, 3, 15678-15686.	3.6	53
7	Chiral building blocks from biomass: 2,5-diamino-2,5-dideoxy-1,4-3,6-dianhydroiditol. Tetrahedron, 2011, 67, 383-389.	1.9	49
8	Semiâ€Aromatic Polyesters Based on a Carbohydrateâ€Derived Rigid Diol for Engineering Plastics. ChemSusChem, 2015, 8, 67-72.	6.8	46
9	Renewable Rigid Diamines: Efficient, Stereospecific Synthesis of High Purity Isohexide Diamines. ChemSusChem, 2011, 4, 1823-1829.	6.8	44
10	Back-to-monomer recycling of polycondensation polymers: opportunities for chemicals and enzymes. RSC Advances, 2021, 12, 947-970.	3.6	42
11	Molecular Mobility in Amorphous Biobased Poly(ethylene 2,5-furandicarboxylate) and Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	4.8	33
12	A Facile Solidâ€Phase Route to Renewable Aromatic Chemicals from Biobased Furanics. Angewandte Chemie, 2016, 128, 1390-1393.	2.0	29
13	Synthesis and Thermal Properties of Bio-Based Copolyesters from the Mixtures of 2,5- and 2,4-Furandicarboxylic Acid with Different Diols. ACS Sustainable Chemistry and Engineering, 2019, 7, 18505-18516.	6.7	25
14	Asymmetric Monomer, Amorphous Polymer? Structureâ€“Property Relationships in 2,4-FDCA and 2,4-PEF. Macromolecules, 2020, 53, 1380-1387.	4.8	24
15	Determination of the equilibrium enthalpy of melting of two-phase semi-crystalline polymers by fast scanning calorimetry. Thermochimica Acta, 2019, 677, 67-78.	2.7	23
16	Poly(butylene 2,4-furanoate), an Added Member to the Class of Smart Furan-Based Polyesters for Sustainable Packaging: Structural Isomerism as a Key to Tune the Final Properties. ACS Sustainable Chemistry and Engineering, 2021, 9, 11937-11949.	6.7	23
17	Towards sugar-derived polyamides as environmentally friendly materials. Polymer Chemistry, 2015, 6, 4133-4143.	3.9	22
18	Highly transparent films of new copolyesters derived from terephthalic and 2,4-furandicarboxylic acids. Polymer Chemistry, 2019, 10, 5324-5332.	3.9	22

#	Article	IF	Citations
19	Isohexide hydroxy esters: synthesis and application of a new class of biobased AB-type building blocks. RSC Advances, 2014, 4, 47937-47950.	3.6	21
20	Selectivity Control in the Tandem Aromatization of Bioâ€Based Furanics Catalyzed by Solid Acids and Palladium. ChemSusChem, 2017, 10, 277-286.	6.8	21
21	Isohexide Dinitriles: A Versatile Family of Renewable Platform Chemicals. ChemSusChem, 2017, 10, 3202-3211.	6.8	14
22	Selective Production of Maleic Acid from Furfural via a Cascade Approach Combining Photochemistry and Electro- or Biochemistry. ACS Sustainable Chemistry and Engineering, 2020, , .	6.7	14
23	Molecular mobility in amorphous biobased copolyesters obtained with 2,5- and 2,4-furandicarboxylate acid. Polymer, 2021, 213, 123225.	3.8	10
24	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.	5.4	10
25	Fully Renewable Thermoplastic Poly(ester urethane urea)s from Bio-based Diisocyanates. Journal of Renewable Materials, 2013, 1, 222-229.	2.2	8