

Thomas Farmer

List of Publications by Year in descending order

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71
papers

3,879
citations

159525

30
h-index

123376

61
g-index

76
all docs

76
docs citations

76
times ranked

4943
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental investigation into the kinetics and mechanism of the aza-Michael additions of dimethyl itaconate. <i>Tetrahedron</i> , 2022, , 132921.	1.0	3
2	Simple and modestly scalable synthesis of. <i>Australian Journal of Chemistry</i> , 2022, 75, 331-344.	0.5	3
3	A class of surfactants <i>via</i> PEG modification of the oleate moiety of lactonic sophorolipids: synthesis, characterisation and application. <i>Green Chemistry</i> , 2021, 23, 9906-9915.	4.6	12
4	Rapid "high-temperature batch and flow lithiation-trapping of N-Boc pyrrolidine. <i>Tetrahedron</i> , 2021, 81, 131899.	1.0	7
5	Greenness Assessment and Synthesis for the Bio-Based Production of the Solvent 2,2,5,5-Tetramethyloxolane (TMO). <i>Sustainable Chemistry</i> , 2021, 2, 392-406.	2.2	5
6	Enzyme-catalyzed synthesis of malonate polyesters and their use as metal chelating materials. <i>Green Chemistry</i> , 2021, 23, 5043-5048.	4.6	4
7	2,2,5,5-Tetramethyloxolane (TMO) as a Solvent for Buchwald-Hartwig Aminations. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 17330-17337.	3.2	8
8	Work-hardening Photopolymer from Renewable Photoactive 3,3-(2,5-Furandiyl)bisacrylic Acid. <i>ChemSusChem</i> , 2020, 13, 4140-4150.	3.6	6
9	Sustainable Single-Stage Solid-Liquid Extraction of Hesperidin and Rutin from Agro-Products Using Cyrene. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18245-18257.	3.2	37
10	Effects of Methyl Branching on the Properties and Performance of Furandioate-Adipate Copolyesters of Bio-Based Secondary Diols. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14471-14483.	3.2	18
11	A Family of Water-Immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. <i>ChemSusChem</i> , 2020, 13, 3212-3221.	3.6	6
12	Editorial: From Biomass to Advanced Bio-Based Chemicals & Materials: A Multidisciplinary Perspective. <i>Frontiers in Chemistry</i> , 2020, 8, 131.	1.8	6
13	Enzymatic synthesis of biobased polyesters utilizing aromatic diols as the rigid component. <i>European Polymer Journal</i> , 2020, 130, 109680.	2.6	24
14	Thermal Upgrade of Enzymatically Synthesized Aliphatic and Aromatic Oligoesters. <i>Materials</i> , 2020, 13, 368.	1.3	14
15	Fabrication of PES/PVP Water Filtration Membranes Using Cyrene®, a Safer Bio-Based Polar Aprotic Solvent. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-15.	0.8	52
16	Improving the Post-polymerization Modification of Bio-Based Itaconate Unsaturated Polyesters: Catalyzing Aza-Michael Additions With Reusable Iodine on Acidic Alumina. <i>Frontiers in Chemistry</i> , 2019, 7, 501.	1.8	11
17	The Autoxidation of Alkenyl Succinimides" Mimics for Polyisobutenyl Succinimide Dispersants. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19649-19660.	1.8	6
18	Sustainable Galactarate-Based Polymers: Multi-Enzymatic Production of Pectin-Derived Polyesters. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900361.	2.0	14

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19	A comparison of the solvation power of the green solvent 2,2,5,5-tetramethyloxolane versus toluene via partition coefficients. <i>Journal of Cleaner Production</i> , 2019, 240, 118175.	4.6	8
20	Modification of bio-based $\hat{1}$ -diketone from wheat straw wax: synthesis of polydentate lipophilic super-chelators for enhanced metal recovery. <i>RSC Advances</i> , 2019, 9, 3542-3549.	1.7	2
21	Enzymatic synthesis of unsaturated polyesters: functionalization and reversibility of the aza-Michael addition of pendants. <i>Polymer Chemistry</i> , 2019, 10, 843-851.	1.9	46
22	Synthesis of Biobased Diethyl Terephthalate via Diels-Alder Addition of Ethylene to 2,5-Furandicarboxylic Acid Diethyl Ester: An Alternative Route to 100% Biobased Poly(ethylene Terephthalate). <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1506-1514.	1.9	10
23	<i>BiologicTool</i> : A Simple Visual Tool for Assisting in the Logical Selection of Pathways from Biomass to Products. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15945-15957.	1.8	13
24	Recent Advances on Enzymatic Catalysis as a Powerful Tool for the Sustainable Synthesis of Bio-Based Polyesters. , 2019, , 555-570.		1
25	Enzymatic synthesis of lignin derivable pyridine based polyesters for the substitution of petroleum derived plastics. <i>Nature Communications</i> , 2019, 10, 1762.	5.8	58
26	Safer bio-based solvents to replace toluene and tetrahydrofuran for the biocatalyzed synthesis of polyesters. <i>Green Chemistry</i> , 2019, 21, 1686-1694.	4.6	50
27	Rapid Ring-Opening Metathesis Polymerization of Monomers Obtained from Biomass-Derived Furfuryl Amines and Maleic Anhydride. <i>ChemSusChem</i> , 2019, 12, 2393-2401.	3.6	8
28	Post-polymerization modification of bio-based polymers: maximizing the high functionality of polymers derived from biomass. <i>Polymer International</i> , 2018, 67, 775-789.	1.6	62
29	Synthesis, chemistry, physicochemical properties and industrial applications of amino acid surfactants: A review. <i>Comptes Rendus Chimie</i> , 2018, 21, 112-130.	0.2	126
30	Optimization of Amidation Reactions Using Predictive Tools for the Replacement of Regulated Solvents with Safer Biobased Alternatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1550-1554.	3.2	14
31	Valorization of spruce needle waste via supercritical extraction of waxes and facile isolation of nonacosan-10-ol. <i>Journal of Cleaner Production</i> , 2018, 171, 557-566.	4.6	19
32	Greening the esterification between isosorbide and acetic acid. <i>Sustainable Chemistry and Pharmacy</i> , 2018, 7, 41-49.	1.6	8
33	Efficient Physisorption of <i>Candida Antarctica</i> Lipase B on Polypropylene Beads and Application for Polyester Synthesis. <i>Catalysts</i> , 2018, 8, 369.	1.6	19
34	Facile and rapid decarboxylation of glutamic acid to $\hat{3}$ -aminobutyric acid via microwave-assisted reaction: Towards valorisation of waste gluten. <i>Journal of Cleaner Production</i> , 2018, 205, 1102-1113.	4.6	21
35	Chemo-enzymatic strategies for the synthesis of functional bio-based polyesters. <i>New Biotechnology</i> , 2018, 44, S64.	2.4	0
36	Catalyst: Possible Consequences of the N-Methyl Pyrrolidone REACH Restriction. <i>CheM</i> , 2018, 4, 2010-2012.	5.8	37

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37	Renewable Self-Blowing Non-Isoocyanate Polyurethane Foams from Lysine and Sorbitol. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4265-4271.	1.2	53
38	A methodical selection process for the development of ketones and esters as bio-based replacements for traditional hydrocarbon solvents. <i>Green Chemistry</i> , 2018, 20, 4003-4011.	4.6	26
39	Elucidating enzymatic polymerisations: Chain-length selectivity of <i>Candida antarctica</i> lipase B towards various aliphatic diols and dicarboxylic acid diesters. <i>European Polymer Journal</i> , 2018, 106, 79-84.	2.6	55
40	Insights into post-polymerisation modification of bio-based unsaturated itaconate and fumarate polyesters via azide-michael addition: Understanding the effects of C13/C12 isomerisation. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1935-1945.	2.5	32
41	Wholly biomass derivable sustainable polymers by ring-opening metathesis polymerisation of monomers obtained from furfuryl alcohol and itaconic anhydride. <i>Polymer Chemistry</i> , 2017, 8, 3074-3081.	1.9	14
42	Synergistic chemo-enzymatic hydrolysis of poly(ethylene terephthalate) from textile waste. <i>Microbial Biotechnology</i> , 2017, 10, 1376-1383.	2.0	85
43	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017, 202, 121-139.	1.6	3
44	2,2,5,5-Tetramethyltetrahydrofuran (TMTHF): a non-polar, non-peroxide forming ether replacement for hazardous hydrocarbon solvents. <i>Green Chemistry</i> , 2017, 19, 3671-3678.	4.6	52
45	New bio-based monomers: tuneable polyester properties using branched diols from biomass. <i>Faraday Discussions</i> , 2017, 202, 61-77.	1.6	44
46	Electrochemical Coupling of Biomass-Derived Acids: New C ₈ Platforms for Renewable Polymers and Fuels. <i>ChemSusChem</i> , 2017, 10, 166-170.	3.6	35
47	High-Yield Production of Levulinic Acid from Pretreated Cow Dung in Dilute Acid Aqueous Solution. <i>Molecules</i> , 2017, 22, 285.	1.7	17
48	Recirculation: A New Concept to Drive Innovation in Sustainable Product Design for Bio-Based Products. <i>Molecules</i> , 2017, 22, 48.	1.7	33
49	On the Effect of Microwave Energy on Lipase-Catalyzed Polycondensation Reactions. <i>Molecules</i> , 2016, 21, 1245.	1.7	17
50	A new perspective in bio-refining: levoglucosenone and cleaner lignin from waste biorefinery hydrolysis lignin by selective conversion of residual saccharides. <i>Energy and Environmental Science</i> , 2016, 9, 2571-2574.	15.6	79
51	Tools and techniques for solvent selection: green solvent selection guides. <i>Sustainable Chemical Processes</i> , 2016, 4, .	2.3	837
52	N-Butylpyrrolidinone as a dipolar aprotic solvent for organic synthesis. <i>Green Chemistry</i> , 2016, 18, 3990-3996.	4.6	81
53	Circular economy design considerations for research and process development in the chemical sciences. <i>Green Chemistry</i> , 2016, 18, 3914-3934.	4.6	239
54	Rapid and efficient biphasic liquid extraction of metals with bio-derived lipophilic 1,2-diketone. <i>RSC Advances</i> , 2016, 6, 95789-95792.	1.7	7

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55	Intelligent Approach to Solvent Substitution: The Identification of a New Class of Levoglucosenone Derivatives. <i>ChemSusChem</i> , 2016, 9, 3503-3512.	3.6	38
56	Ring opening metathesis polymerisation of a new bio-derived monomer from itaconic anhydride and furfuryl alcohol. <i>Green Chemistry</i> , 2016, 18, 3945-3948.	4.6	28
57	Post-polymerisation modification of bio-derived unsaturated polyester resins via Michael additions of 1,3-dicarbonyls. <i>Polymer Chemistry</i> , 2016, 7, 1650-1658.	1.9	45
58	Processed Lignin as a Byproduct of the Generation of 5-(Chloromethyl)furfural from Biomass: A Promising New Mesoporous Material. <i>ChemSusChem</i> , 2015, 8, 4172-4179.	3.6	12
59	Synthesis of Unsaturated Polyester Resins from Various Bio-Derived Platform Molecules. <i>International Journal of Molecular Sciences</i> , 2015, 16, 14912-14932.	1.8	98
60	Opportunities for Bio-Based Solvents Created as Petrochemical and Fuel Products Transition towards Renewable Resources. <i>International Journal of Molecular Sciences</i> , 2015, 16, 17101-17159.	1.8	177
61	Bio-derived materials as a green route for precious & critical metal recovery and re-use. <i>Green Chemistry</i> , 2015, 17, 1951-1965.	4.6	220
62	The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes. <i>Catalysis Today</i> , 2015, 239, 80-89.	2.2	70
63	p-Cymenesulphonyl Chloride: A Bio-Based Activating Group and Protecting Group for Greener Organic Synthesis. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	0
64	Chapter 1. Elemental Sustainability for Catalysis. <i>RSC Green Chemistry</i> , 2015, , 1-14.	0.0	2
65	Dihydrolevoglucosenone (Cyrene) as a bio-based alternative for dipolar aprotic solvents. <i>Chemical Communications</i> , 2014, 50, 9650-9652.	2.2	329
66	Using metrics and sustainability considerations to evaluate the use of bio-based and non-renewable Brønsted acidic ionic liquids to catalyse Fischer esterification reactions. <i>Sustainable Chemical Processes</i> , 2013, 1, .	2.3	14
67	Microwave heating for rapid conversion of sugars and polysaccharides to 5-chloromethyl furfural. <i>Green Chemistry</i> , 2013, 15, 72-75.	4.6	50
68	Elemental Sustainability and the Importance of Scarce Element Recovery. <i>RSC Green Chemistry</i> , 2013, , 1-28.	0.0	33
69	Mesoporous structured silica – An improved catalyst for direct amide synthesis and its application to continuous flow processing. <i>Arkivoc</i> , 2013, 2012, 282-293.	0.3	15
70	The Derivatization of Bioplatfrom Molecules by using KF/Alumina Catalysis. <i>ChemSusChem</i> , 2009, 2, 1025-1027.	3.6	25
71	The integration of green chemistry into future biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2009, 3, 72-90.	1.9	199