

Etienne Grau

List of Publications by Year in descending order

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182225

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docs citations

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times ranked

3482
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Nonisocyanate Polyurethanes (H \in NIPUs): A Pathway towards a Broad Range of Novel Materials. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	17
2	Synthesis and Characterization of Vanillin-Based $\ddot{\text{C}}$ -Conjugated Polyazomethines and Their Oligomer Model Compounds. <i>Molecules</i> , 2022, 27, 4138.	1.7	2
3	Enantioselective Crystallization of Diglycerol Dicarboxylate: Impact of the Microstructure on Polyhydroxyurethane Properties. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000533.	2.0	4
4	Crosslinked isocyanate-free poly(hydroxy urethane)s $\hat{\text{C}}$ Poly(butyl methacrylate) hybrid latexes. <i>European Polymer Journal</i> , 2021, 146, 110254.	2.6	14
5	Direct electrospinning of cellulose in the DBU-CO ₂ switchable solvent system. <i>Cellulose</i> , 2021, 28, 6869-6880.	2.4	5
6	Polycaryophyllene as a Promising Plasticizer for Ethylene Propylene Diene Monomer Elastomers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3953-3959.	2.0	2
7	Ester-Containing Imidazolium-Type Ionic Liquid Crystals Derived from Bio-based Fatty Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12687-12698.	3.2	3
8	Bio-Based Polyricinoleate and Polyhydroxystearate: Properties and Evaluation as Viscosity Modifiers for Lubricants. <i>ACS Applied Polymer Materials</i> , 2021, 3, 811-818.	2.0	2
9	Bio-Based Thermo-Reversible Aliphatic Polycarbonate Network. <i>Molecules</i> , 2020, 25, 74.	1.7	8
10	Volatile Organic Compound-Free Synthesis of Waterborne Poly(hydroxy urethane) $\hat{\text{C}}$ (Meth)acrylic Hybrids by Miniemulsion Polymerization. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4016-4025.	2.0	17
11	Water-based non-isocyanate polyurethane-ureas (NIPUUs). <i>Polymer Chemistry</i> , 2020, 11, 3786-3799.	1.9	30
12	Hydrolyzable Biobased Polyhydroxyurethane Networks with Shape Memory Behavior at Body Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9125-9135.	3.2	27
13	Chemo-enzymatic synthesis of glycolipids, their polymerization and self-assembly. <i>Polymer Chemistry</i> , 2020, 11, 3994-4004.	1.9	3
14	Upgrading the chemistry of $\ddot{\text{C}}$ -conjugated polymers toward more sustainable materials. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9792-9810.	2.7	36
15	Divanillin-Based Polyazomethines: Toward Biobased and Metal-Free $\ddot{\text{C}}$ -Conjugated Polymers. <i>ACS Omega</i> , 2020, 5, 5176-5181.	1.6	22
16	Caryophyllene as a Precursor of Cross-Linked Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4451-4456.	3.2	7
17	Impact of Fatty Acid Structure on CALB $\hat{\text{C}}$ Catalyzed Esterification of Glucose. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 1900294.	1.0	22
18	Cross $\hat{\text{C}}$ Linking of Polyesters Based on Fatty Acids. <i>European Journal of Lipid Science and Technology</i> , 2019, 121, 1900264.	1.0	10

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19	Benefit of the Reactive Extrusion in the Course of Polyhydroxyurethanes Synthesis by Aminolysis of Cyclic Carbonates. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17282-17292.	3.2	41
20	Divanillin-Based Aromatic Amines: Synthesis and Use as Curing Agents for Fully Vanillin-Based Epoxy Thermosets. <i>Frontiers in Chemistry</i> , 2019, 7, 606.	1.8	28
21	Versatile cross-linked fatty acid-based polycarbonate networks obtained by thiol-ene coupling reaction. <i>RSC Advances</i> , 2019, 9, 145-150.	1.7	14
22	Organogels from trehalose difatty ester amphiphiles. <i>Soft Matter</i> , 2019, 15, 956-962.	1.2	4
23	Cationic water dispersion of bio-sourced cross-linked polyurethane. <i>Green Materials</i> , 2019, 7, 185-193.	1.1	0
24	Critical Review on Sustainable Homogeneous Cellulose Modification: Why Renewability Is Not Enough. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1826-1840.	3.2	121
25	Sustainable Approach for Cellulose Aerogel Preparation from the DBU-CO ₂ Switchable Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3329-3338.	3.2	38
26	Synthesis and Self-Assembly of Xylan-Based Amphiphiles: From Bio-Based Vesicles to Antifungal Properties. <i>Biomacromolecules</i> , 2019, 20, 118-129.	2.6	15
27	Simple and Efficient Approach toward Photosensitive Biobased Aliphatic Polycarbonate Materials. <i>ACS Macro Letters</i> , 2018, 7, 250-254.	2.3	26
28	Detailed Understanding of the DBU/CO ₂ Switchable Solvent System for Cellulose Solubilization and Derivatization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1496-1503.	3.2	54
29	On the CO ₂ sorption and swelling of elastomers by supercritical CO ₂ as studied by in situ high pressure FTIR microscopy. <i>Journal of Supercritical Fluids</i> , 2018, 131, 150-156.	1.6	19
30	Sustainable succinylation of cellulose in a CO ₂ -based switchable solvent and subsequent Passerini 3-CR and Ugi 4-CR modification. <i>Green Chemistry</i> , 2018, 20, 214-224.	4.6	62
31	Divinylglycol, a Glycerol-Based Monomer: Valorization, Properties, and Applications. <i>ACS Symposium Series</i> , 2018, , 299-330.	0.5	2
32	Synthesis and characterization of partially bio-based polyimides based on biphenylene-containing diisocyanate derived from vanillic acid. <i>European Polymer Journal</i> , 2018, 109, 257-264.	2.6	20
33	6-O-glucose palmitate synthesis with lipase: Investigation of some key parameters. <i>Molecular Catalysis</i> , 2018, 460, 63-68.	1.0	23
34	On the direct use of CO ₂ in multicomponent reactions: introducing the Passerini four component reaction. <i>RSC Advances</i> , 2018, 8, 31490-31495.	1.7	7
35	Sustainable Transesterification of Cellulose with High Oleic Sunflower Oil in a DBU-CO ₂ Switchable Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8826-8835.	3.2	59
36	Divanillin-Based Epoxy Precursors as DGEBA Substitutes for Biobased Epoxy Thermosets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11008-11017.	3.2	110

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37	Visible-light photocatalyzed oxidative decarboxylation of oxamic acids: a green route to urethanes and ureas. <i>Chemical Communications</i> , 2018, 54, 9337-9340.	2.2	39
38	Unexpected Synthesis of Segmented Poly(hydroxyurea-urethane)s from Dicyclic Carbonates and Diamines by Organocatalysis. <i>Macromolecules</i> , 2018, 51, 5556-5566.	2.2	69
39	A thioglycerol route to bio-based bis-cyclic carbonates: poly(hydroxyurethane) preparation and post-functionalization. <i>Polymer Chemistry</i> , 2017, 8, 3438-3447.	1.9	23
40	ADMET polymerization of \pm -unsaturated glycolipids: synthesis and physico-chemical properties of the resulting polymers. <i>Polymer Chemistry</i> , 2017, 8, 3731-3739.	1.9	19
41	Synthesis and Characterization of Epoxy Thermosetting Polymers from Glycidylated Organosolv Lignin and Bisphenol A. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600411.	1.1	37
42	Hyperbranched polyesters by polycondensation of fatty acid-based AB _n -type monomers. <i>Green Chemistry</i> , 2017, 19, 259-269.	4.6	38
43	Synthesis of fatty acid-based non-isocyanate polyurethanes, NIPUs, in bulk and mini-emulsion. <i>European Polymer Journal</i> , 2016, 84, 863-872.	2.6	56
44	Vegetable oils: a source of polyols for polyurethane materials. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2016, 23, D508.	0.6	53
45	Isomerization-hydroboration-oxidation strategy: Access to long chain AB- and AA-type oleyl based monomers and polymers thereof. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1620-1629.	1.0	3
46	From Lignin-derived Aromatic Compounds to Novel Biobased Polymers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 9-28.	2.0	296
47	Bio-based aliphatic primary amines from alcohols through the "Nitrile route" towards non-isocyanate polyurethanes. <i>European Polymer Journal</i> , 2016, 82, 114-121.	2.6	13
48	Activated lipidic cyclic carbonates for non-isocyanate polyurethane synthesis. <i>Polymer Chemistry</i> , 2016, 7, 1439-1451.	1.9	96
49	Selective laccase-catalyzed dimerization of phenolic compounds derived from lignin: Towards original symmetrical bio-based (bis) aromatic monomers. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 125, 34-41.	1.8	64
50	Salphen-Co(III) complexes catalyzed copolymerization of epoxides with CO ₂ . <i>Polymer</i> , 2015, 63, 52-61.	1.8	23
51	Synthesis of Fatty Acid-Based Polyesters and Their Blends with Poly(<i>l</i> -lactide) as a Way To Tailor PLLA Toughness. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 283-292.	3.2	58
52	Renewable (semi)aromatic polyesters from symmetrical vanillin-based dimers. <i>Polymer Chemistry</i> , 2015, 6, 6058-6066.	1.9	129
53	Fatty acid-based thermoplastic poly(ester-amide) as toughening and crystallization improver of poly(<i>l</i> -lactide). <i>European Polymer Journal</i> , 2015, 65, 276-285.	2.6	31
54	Isocyanate-Free Routes to Polyurethanes and Poly(hydroxy Urethane)s. <i>Chemical Reviews</i> , 2015, 115, 12407-12439.	23.0	504

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55	ADMET polymerization of bio-based biphenyl compounds. <i>Polymer Chemistry</i> , 2015, 6, 7693-7700.	1.9	51
56	Dimerization of abietic acid for the design of renewable polymers by ADMET. <i>European Polymer Journal</i> , 2015, 67, 409-417.	2.6	27
57	Hydrophobe-free miniemulsion polymerization: towards high solid content of fatty acid-based poly(urethane-urea) latexes. <i>Polymer Chemistry</i> , 2015, 6, 213-217.	1.9	7
58	Bio-Based Aliphatic Polyurethanes Through ADMET Polymerization in Bulk and Green Solvent. <i>Macromolecular Rapid Communications</i> , 2014, 35, 479-483.	2.0	52
59	Branched polyethylene mimicry by metathesis copolymerization of fatty acid-based α,ω -dienes. <i>Green Chemistry</i> , 2014, 16, 1755-1758.	4.6	38
60	Unexpected dimerization of isoprene in a gas chromatography inlet. A study by gas chromatography/mass spectrometry coupling. <i>Journal of Chromatography A</i> , 2014, 1331, 133-138.	1.8	7
61	Fatty acid-based (bis) 6-membered cyclic carbonates as efficient isocyanate free poly(hydroxyurethane) precursors. <i>Polymer Chemistry</i> , 2014, 5, 6142-6147.	1.9	84
62	Selective isomerization-carbonylation of a terpene trisubstituted double bond. <i>Green Chemistry</i> , 2014, 16, 4541-4545.	4.6	22
63	Novel green fatty acid-based bis-cyclic carbonates for the synthesis of isocyanate-free poly(hydroxyurethane amide)s. <i>RSC Advances</i> , 2014, 4, 25795-25803.	1.7	94
64	Structure-properties relationship of fatty acid-based thermoplastics as synthetic polymer mimics. <i>Polymer Chemistry</i> , 2013, 4, 5472.	1.9	183
65	Polyterpenes by ring opening metathesis polymerization of caryophyllene and humulene. <i>Green Chemistry</i> , 2013, 15, 1112.	4.6	44
66	Tetrahydrofuran in $TiCl_4/THF/MgCl_2$: a Non-Innocent Ligand for Supported Ziegler-Natta Polymerization Catalysts. <i>ACS Catalysis</i> , 2013, 3, 52-56.	5.5	58
67	Homo- and Copolymerizations of (Meth)Acrylates with Olefins (Styrene, Ethylene) Using Neutral Nickel Complexes: A Dual Radical/Catalytic Pathway. <i>Macromolecules</i> , 2011, 44, 3293-3301.	2.2	52
68	Unusual activation by solvent of the ethylene free radical polymerization. <i>Polymer Chemistry</i> , 2011, 2, 2328.	1.9	31
69	Aqueous Dispersions of Nonspherical Polyethylene Nanoparticles from Free Radical Polymerization under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6810-6812.	7.2	18
70	Characterization of Ethylene methyl methacrylate and Ethylene butylacrylate Copolymers with Interactive Liquid Chromatography. <i>Macromolecular Symposia</i> , 2010, 298, 191-199.	0.4	9
71	Supercritical behavior in free radical polymerization of ethylene in the medium pressure range. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11665.	1.3	17
72	Free Ethylene Radical Polymerization under Mild Conditions: The Impact of the Solvent. <i>Macromolecules</i> , 2009, 42, 7279-7281.	2.2	29