Sander Van den Bosch

List of Publications by Year
in descending order

31 papers	6,263 citations	201385 27 h-index	454577 30 g-index
33 all docs	33 docs citations	33 times ranked	4685 citing authors

#	Article	IF	Citations
1	Identification and quantification of lignin monomers and oligomers from reductive catalytic fractionation of pine wood with GC Ã— GC â€“ FID/MS. Green Chemistry, 2022, 24, 191-206.	4.6	41
2	Preparation of Renewable Thiolâ€¥ne â€œClickâ€•Networks Based on Fractionated Lignin for Anticorrosive Protective Film Applications. Macromolecular Chemistry and Physics, 2022, 223, .	1.1	2
3	Reductive Catalytic Fractionation: From Waste Wood to Functional Phenolic Oligomers for Attractive, Value-Added Applications. ACS Symposium Series, 2021, , 37-60.	0.5	5
4	Low molecular weight and highly functional RCF lignin products as a full bisphenol a replacer in bio-based epoxy resins. Chemical Communications, 2021, 57, 5642-5645.	2.2	28
5	Catalytic fast pyrolysis of beech wood lignin isolated by different biomass (pre)treatment processes: Organosolv, hydrothermal and enzymatic hydrolysis. Applied Catalysis A: General, 2021, 623, 118298.	2.2	35
6	Lignin-Based Additives for Improved Thermo-Oxidative Stability of Biolubricants. ACS Sustainable Chemistry and Engineering, 2021, 9, 12548-12559.	3.2	41
7	Reductive catalytic fractionation of pine wood: elucidating and quantifying the molecular structures in the lignin oil. Chemical Science, 2020, 11, 11498-11508.	3.7	84
8	Perspective on Overcoming Scale-Up Hurdles for the Reductive Catalytic Fractionation of Lignocellulose Biomass. Industrial & Engineering Chemistry Research, 2020, 59, 17035-17045.	1.8	59
9	Integrated techno-economic assessment of a biorefinery process: The high-end valorization of the lignocellulosic fraction in wood streams. Journal of Cleaner Production, 2020, 266, 122022.	4.6	45
10	A sustainable wood biorefinery for lowâ€“carbon footprint chemicals production. Science, 2020, 367, 1385-1390.	6.0	631
11	Catalytic Strategies Towards Ligninâ€Derived Chemicals. Topics in Current Chemistry Collections, 2020, , 129-168.	0.2	10
12	Reductive catalytic fractionation of black locust bark. Green Chemistry, 2019, 21, 5841-5851.	4.6	43
13	Introducing curcumin biosynthesis in Arabidopsis enhances lignocellulosic biomass processing. Nature Plants, 2019, 5, 225-237.	4.7	50
14	Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. Green Chemistry, 2018, 20, 1050-1058.	4.6	66
15	Chemicals from lignin: an interplay of lignocellulose fractionation, depolymerisation, and upgrading. Chemical Society Reviews, 2018, 47, 852-908.	18.7	1,708
16	Direct upstream integration of biogasoline production into current light straight run naphtha petrorefinery processes. Nature Energy, 2018, 3, 969-977.	19.8	58
17	Functionalised heterogeneous catalysts for sustainable biomass valorisation. Chemical Society Reviews, 2018, 47, 8349-8402.	18.7	493
18	Catalytic lignocellulose biorefining in <i>n</i>-butanol/water: a one-pot approach toward phenolics, polyols, and cellulose. Green Chemistry, 2018, 20, 4607-4619.	4.6	113

#	Article	IF	Citations
19	Catalytic Strategies Towards Lignin-Derived Chemicals. Topics in Current Chemistry, 2018, 376, 36.	3.0	75
20	Sustainable bisphenols from renewable softwood lignin feedstock for polycarbonates and cyanate ester resins. Green Chemistry, 2017, 19, 2561-2570.	4.6	102
21	Lignin-first biomass fractionation: the advent of active stabilisation strategies. Energy and Environmental Science, 2017, 10, 1551-1557.	15.6	503
22	Integrating lignin valorization and bio-ethanol production: on the role of Ni-Al₂O₃catalyst pellets during lignin-first fractionation. Green Chemistry, 2017, 19, 3313-3326.	4.6	251
23	Selective Conversion of Lignin-Derivable 4-Alkylguaiacols to 4-Alkylcyclohexanols over Noble and Non-Noble-Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2016, 4, 5336-5346.	3.2	66
24	Synergetic Effects of Alcohol/Water Mixing on the Catalytic Reductive Fractionation of Poplar Wood. ACS Sustainable Chemistry and Engineering, 2016, 4, 6894-6904.	3.2	120
25	Influence of Acidic (H₃PO₄) and Alkaline (NaOH) Additives on the Catalytic Reductive Fractionation of Lignocellulose. ACS Catalysis, 2016, 6, 2055-2066.	5.5	191
26	Tuning the lignin oil OH-content with Ru and Pd catalysts during lignin hydrogenolysis on birch wood. Chemical Communications, 2015, 51, 13158-13161.	2.2	298
27	Reductive lignocellulose fractionation into soluble lignin-derived phenolic monomers and dimers and processable carbohydrate pulps. Energy and Environmental Science, 2015, 8, 1748-1763.	15.6	688
28	Selective Nickelâ€Catalyzed Conversion of Model and Ligninâ€Derived Phenolic Compounds to Cyclohexanoneâ€Based Polymer Building Blocks. ChemSusChem, 2015, 8, 1805-1818.	3.6	137
29	Influence of bio-based solvents on the catalytic reductive fractionation of birch wood. Green Chemistry, 2015, 17, 5035-5045.	4.6	214
30	Alkane production from biomass: chemo-, bio- and integrated catalytic approaches. Current Opinion in Chemical Biology, 2015, 29, 40-48.	2.8	74
31	Engineering Curcumin Biosynthesis in Poplar Affects Lignification and Biomass Yield. Frontiers in Plant Science, 0, 13, .	1.7	8