

Peter J Deuss

List of Publications by Year in descending order

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53
papers

3,268
citations

236912

25
h-index

175241

52
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58
all docs

58
docs citations

58
times ranked

3215
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemicals from lignin by diol-stabilized acidolysis: reaction pathways and kinetics. <i>Green Chemistry</i> , 2022, 24, 3193-3207.	9.0	15
2	Pyrolytic lignin: a promising biorefinery feedstock for the production of fuels and valuable chemicals. <i>Green Chemistry</i> , 2022, 24, 4680-4702.	9.0	44
3	Tuning lignin properties by mild ionic-liquid-mediated selective alcohol incorporation. <i>Chem Catalysis</i> , 2022, 2, 1407-1427.	6.1	5
4	Mild Organosolv Delignification of Residual Aspen Bark after Extractives Isolation as a Step in Biorefinery Processing Schemes. <i>Molecules</i> , 2022, 27, 3185.	3.8	8
5	Selective Demethoxylation of Guaiacols to Phenols using Supported MoO ₃ Catalysts. <i>ChemCatChem</i> , 2022, 14, .	3.7	4
6	New Mechanistic Insights into the Lignin β -O-4 Linkage Acidolysis with Ethylene Glycol Stabilization Aided by Multilevel Computational Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2388-2399.	6.7	32
7	5-Hydroxy-2-Methylfurfural from Sugar Beet Thick Juice: Kinetic and Modeling Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2626-2638.	6.7	5
8	Benzenetriol-Derived Compounds against Citrus Canker. <i>Molecules</i> , 2021, 26, 1436.	3.8	2
9	Iron Tetrasulfonatophthalocyanine-Catalyzed Starch Oxidation Using H ₂ O ₂ : Interplay between Catalyst Activity, Selectivity, and Stability. <i>ACS Omega</i> , 2021, 6, 13847-13857.	3.5	4
10	Correction to "New Mechanistic Insights into the Lignin β -O-4 Linkage Acidolysis with Ethylene Glycol Stabilization Aided by Multilevel Computational Chemistry". <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9149-9149.	6.7	1
11	Mechanistic Investigations into the Catalytic Levulinic Acid Hydrogenation, Insight in H/D Exchange Pathways, and a Synthetic Route to d ₈ - β -Valerolactone. <i>ACS Catalysis</i> , 2021, 11, 10467-10477.	11.2	15
12	Tunable and functional deep eutectic solvents for lignocellulose valorization. <i>Nature Communications</i> , 2021, 12, 5424.	12.8	116
13	Catalytic Hydrogenolysis of Lignin: The Influence of Minor Units and Saccharides. <i>ChemSusChem</i> , 2021, 14, 5186-5198.	6.8	9
14	The effect of ball milling on birch, pine, reed, walnut shell enzymatic hydrolysis recalcitrance and the structure of the isolated residual enzyme lignin. <i>Industrial Crops and Products</i> , 2021, 167, 113493.	5.2	37
15	Ozone mediated depolymerization and solvolysis of technical lignins under ambient conditions in ethanol. <i>Sustainable Energy and Fuels</i> , 2020, 4, 265-276.	4.9	16
16	<i>Ex Situ</i> Catalytic Fast Pyrolysis of Lignin-Rich Digested Stillage over Na/ZSM-5, H/ZSM-5, and Fe/ZSM-5. <i>Energy & Fuels</i> , 2020, 34, 12710-12723.	5.1	6
17	Amphiphilic Copolymers Derived from Butanosolv Lignin and Acrylamide: Synthesis, Properties in Water Solution, and Potential Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5705-5715.	4.4	11
18	Catalyst Performance Studies on the Guerbet Reaction in a Continuous Flow Reactor Using Mono- and Bi-Metallic Cu-Ni Porous Metal Oxides. <i>Catalysts</i> , 2020, 10, 996.	3.5	12

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19	Towards Thermally Reversible Networks Based on Furan-Functionalization of Jatropha Oil. <i>Molecules</i> , 2020, 25, 3641.	3.8	4
20	Combined lignin defunctionalisation and synthesis gas formation by acceptorless dehydrogenative decarbonylation. <i>Green Chemistry</i> , 2020, 22, 3791-3801.	9.0	18
21	An Introduction to Model Compounds of Lignin Linking Motifs; Synthesis and Selection Considerations for Reactivity Studies. <i>ChemSusChem</i> , 2020, 13, 4238-4265.	6.8	50
22	Mild Organosolv Lignin Extraction with Alcohols: The Importance of Benzylic Alkoxylation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5119-5131.	6.7	100
23	A Two-Step Approach for the Conversion of Technical Lignins to Biofuels. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900147.	5.3	11
24	High-Yield 5-Hydroxymethylfurfural Synthesis from Crude Sugar Beet Juice in a Biphasic Microreactor. <i>ChemSusChem</i> , 2019, 12, 4304-4312.	6.8	28
25	Efficient Depolymerization of Lignin to Biobased Chemicals Using a Two-Step Approach Involving Ozonation in a Continuous Flow Microreactor Followed by Catalytic Hydrotreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18384-18394.	6.7	20
26	Bio-Based Chemicals: Selective Aerobic Oxidation of Tetrahydrofuran-2,5-dimethanol to Tetrahydrofuran-2,5-dicarboxylic Acid Using Hydrothermalite-Supported Gold Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4647-4656.	6.7	19
27	Hydrotreatment of pyrolysis liquids derived from second-generation bioethanol production residues over NiMo and CoMo catalysts. <i>Biomass and Bioenergy</i> , 2019, 126, 84-93.	5.7	21
28	Valorization of Pyrolysis Liquids: Ozonation of the Pyrolytic Lignin Fraction and Model Components. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4755-4765.	6.7	27
29	Efficient Mild Organosolv Lignin Extraction in a Flow-Through Setup Yielding Lignin with High β -O-4 Content. <i>Polymers</i> , 2019, 11, 1913.	4.5	39
30	Lewis Acid Catalyzed Conversion of 5-Hydroxymethylfurfural to 1,2,4-Benzenetriol, an Overlooked Biobased Compound. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3419-3425.	6.7	35
31	Complete lignocellulose conversion with integrated catalyst recycling yielding valuable aromatics and fuels. <i>Nature Catalysis</i> , 2018, 1, 82-92.	34.4	350
32	Biobased Chemicals: 1,2,4-Benzenetriol, Selective Deuteration and Dimerization to Bifunctional Aromatic Compounds. <i>Organic Process Research and Development</i> , 2018, 22, 1663-1671.	2.7	17
33	Biobased chemicals from the catalytic depolymerization of Kraft lignin using supported noble metal-based catalysts. <i>Fuel Processing Technology</i> , 2018, 179, 143-153.	7.2	69
34	Biobased Furanics: Kinetic Studies on the Acid Catalyzed Decomposition of 2-Hydroxyacetyl Furan in Water Using Brønsted Acid Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3993-4001.	6.7	7
35	Phenolic acetals from lignins of varying compositions via iron(III) triflate catalysed depolymerisation. <i>Green Chemistry</i> , 2017, 19, 2774-2782.	9.0	136
36	Enzyme Activity by Design: An Artificial Rhodium Hydroformylase for Linear Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13596-13600.	13.8	36

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37	Enzyme Activity by Design: An Artificial Rhodium Hydroformylase for Linear Aldehydes. <i>Angewandte Chemie</i> , 2017, 129, 13784-13788.	2.0	9
38	A Biocatalytic One-Pot Approach for the Preparation of Lignin Oligomers Using an Oxidase/Peroxidase Cascade Enzyme System. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3354-3361.	4.3	18
39	Pre-treatment of lignocellulosic feedstocks using biorenewable alcohols: towards complete biomass valorisation. <i>Green Chemistry</i> , 2017, 19, 202-214.	9.0	232
40	Metal Triflates for the Production of Aromatics from Lignin. <i>ChemSusChem</i> , 2016, 9, 2974-2981.	6.8	82
41	Advanced Model Compounds for Understanding Acid-Catalyzed Lignin Depolymerization: Identification of Renewable Aromatics and a Lignin-Derived Solvent. <i>Journal of the American Chemical Society</i> , 2016, 138, 8900-8911.	13.7	202
42	From models to lignin: Transition metal catalysis for selective bond cleavage reactions. <i>Coordination Chemistry Reviews</i> , 2016, 306, 510-532.	18.8	221
43	New insights into the catalytic cleavage of the lignin β -O-4 linkage in multifunctional ionic liquid media. <i>Catalysis Science and Technology</i> , 2016, 6, 1882-1891.	4.1	50
44	Aromatic Monomers by in Situ Conversion of Reactive Intermediates in the Acid-Catalyzed Depolymerization of Lignin. <i>Journal of the American Chemical Society</i> , 2015, 137, 7456-7467.	13.7	477
45	Parallel Synthesis of Cell-Penetrating Peptide Conjugates of PMO Toward Exon Skipping Enhancement in Duchenne Muscular Dystrophy. <i>Nucleic Acid Therapeutics</i> , 2015, 25, 1-10.	3.6	19
46	Homogeneous catalysis for the conversion of biomass and biomass-derived platform chemicals. <i>Catalysis Science and Technology</i> , 2014, 4, 1174-1196.	4.1	267
47	Catalyst design in oxidation chemistry; from KMnO ₄ to artificial metalloenzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5657-5677.	3.0	28
48	Parallel synthesis and splicing redirection activity of cell-penetrating peptide conjugate libraries of a PNA cargo. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7621.	2.8	21
49	Artificial Copper Enzymes for Asymmetric Diels-Alder Reactions. <i>ChemCatChem</i> , 2013, 5, 1184-1191.	3.7	50
50	Bioinspired Catalyst Design and Artificial Metalloenzymes. <i>Chemistry - A European Journal</i> , 2011, 17, 4680-4698.	3.3	177
51	Highly Efficient and Site-Selective Phosphane Modification of Proteins through Hydrazone Linkage: Development of Artificial Metalloenzymes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5315-5317.	13.8	54
52	Sequential Catalytic Modification of the Lignin β -Ethoxylated β -O-4 Motif To Facilitate C-O Bond Cleavage by Ruthenium-Xantphos Catalyzed Hydrogen Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	8
53	Efficient depolymerization of lignins to alkylphenols using phosphided NiMo catalysts. <i>Catalysis Science and Technology</i> , 0, , .	4.1	6