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List of Publications by Year in descending order

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172386

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docs citations

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times ranked

4414
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic aspects of transition metal-catalyzed hydrogen transfer reactions. <i>Chemical Society Reviews</i> , 2006, 35, 237.	18.7	997
2	Lignin Valorization through Catalytic Lignocellulose Fractionation: A Fundamental Platform for the Future Biorefinery. <i>ChemSusChem</i> , 2016, 9, 1544-1558.	3.6	469
3	Guidelines for performing lignin-first biorefining. <i>Energy and Environmental Science</i> , 2021, 14, 262-292.	15.6	416
4	Efficient Ruthenium-Catalyzed Aerobic Oxidation of Amines by Using a Biomimetic Coupled Catalytic System. <i>Chemistry - A European Journal</i> , 2005, 11, 2327-2334.	1.7	253
5	Selective Route to 2-Propenyl Aryls Directly from Wood by a Tandem Organosolv and Palladium-Catalyzed Transfer Hydrogenolysis. <i>ChemSusChem</i> , 2014, 7, 2154-2158.	3.6	243
6	Ruthenium-Catalyzed Transfer Hydrogenation of Imines by Propan-2-ol in Benzene. <i>Chemistry - A European Journal</i> , 2002, 8, 2955.	1.7	201
7	Lignin depolymerization to monophenolic compounds in a flow-through system. <i>Green Chemistry</i> , 2017, 19, 5767-5771.	4.6	164
8	Hydrogen-free catalytic fractionation of woody biomass. <i>ChemSusChem</i> , 2016, 9, 3280-3287.	3.6	149
9	Mild Heterogeneous Palladium-Catalyzed Cleavage of Ether Linkages of Lignin Model Compounds and Native Lignin in Air. <i>ChemCatChem</i> , 2014, 6, 179-184.	1.8	141
10	Mechanistic Study of Hydrogen Transfer to Imines from a Hydroxycyclopentadienyl Ruthenium Hydride. Experimental Support for a Mechanism Involving Coordination of Imine to Ruthenium Prior to Hydrogen Transfer. <i>Journal of the American Chemical Society</i> , 2006, 128, 14293-14305.	6.6	125
11	Oxidative cleavage of C-C bonds in lignin. <i>Nature Chemistry</i> , 2021, 13, 1118-1125.	6.6	113
12	Techno-economic analysis and life cycle assessment of a biorefinery utilizing reductive catalytic fractionation. <i>Energy and Environmental Science</i> , 2021, 14, 4147-4168.	15.6	106
13	Pd-Catalyzed Transfer Hydrogenolysis of Primary, Secondary, and Tertiary Benzylic Alcohols by Formic Acid: A Mechanistic Study. <i>ACS Catalysis</i> , 2013, 3, 635-642.	5.5	97
14	Mild and Robust Redox-Neutral Pd-Catalyzed Lignin C-O Bond Cleavage Through a Low-Energy Barrier Pathway. <i>ChemSusChem</i> , 2015, 8, 2187-2192.	3.6	93
15	Selective Aerobic Benzylic Alcohol Oxidation of Lignin Model Compounds: Route to Aryl Ketones. <i>ChemCatChem</i> , 2015, 7, 401-404.	1.8	67
16	Lignin Valorization by Cobalt-Catalyzed Fractionation of Lignocellulose to Yield Monophenolic Compounds. <i>ChemSusChem</i> , 2019, 12, 404-408.	3.6	67
17	Brønsted Acid-Catalyzed Intramolecular Nucleophilic Substitution of the Hydroxyl Group in Stereogenic Alcohols with Chirality Transfer. <i>Journal of the American Chemical Society</i> , 2015, 137, 4646-4649.	6.6	58
18	Mechanism of hydrogen transfer to imines from a hydroxycyclopentadienyl ruthenium hydride. Support for a stepwise mechanism. <i>Chemical Communications</i> , 2004, , 2748-2749.	2.2	57

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19	Design and synthesis of biobased epoxy thermosets from biorenewable resources. <i>Comptes Rendus Chimie</i> , 2017, 20, 1006-1016.	0.2	57
20	DFT Study of an Inner-Sphere Mechanism in the Hydrogen Transfer from a Hydroxycyclopentadienyl Ruthenium Hydride to Imines. <i>Organometallics</i> , 2007, 26, 2840-2848.	1.1	55
21	Intramolecular substitutions of secondary and tertiary alcohols with chirality transfer by an iron(III) catalyst. <i>Nature Communications</i> , 2019, 10, 3826.	5.8	54
22	Green Diesel from Kraft Lignin in Three Steps. <i>ChemSusChem</i> , 2016, 9, 1392-1396.	3.6	51
23	The Efficiency of the Metal Catalysts in the Nucleophilic Substitution of Alcohols is Dependent on the Nucleophile and Not on the Electrophile. <i>Chemistry - an Asian Journal</i> , 2013, 8, 974-981.	1.7	46
24	Functionalized spirolactones by photoinduced dearomatization of biaryl compounds. <i>Chemical Science</i> , 2019, 10, 3681-3686.	3.7	46
25	A gold(I)-catalyzed route to α -sulfenylated carbonyl compounds from propargylic alcohols and aryl thiols. <i>Chemical Communications</i> , 2012, 48, 6586.	2.2	40
26	Diglycidylether of iso-eugenol: a suitable lignin-derived synthon for epoxy thermoset applications. <i>RSC Advances</i> , 2016, 6, 68732-68738.	1.7	39
27	Tsuji's Trost Reaction of Non-derivatized Allylic Alcohols. <i>Chemistry - A European Journal</i> , 2018, 24, 3488-3498.	1.7	36
28	A General Route to β -Substituted Pyrroles by Transition-Metal Catalysis. <i>Journal of Organic Chemistry</i> , 2016, 81, 1450-1460.	1.7	35
29	Atom-Efficient Gold(I)-Chloride-Catalyzed Synthesis of α -Sulfenylated Carbonyl Compounds from Propargylic Alcohols and Aryl Thiols: Substrate Scope and Experimental and Theoretical Mechanistic Investigation. <i>Chemistry - A European Journal</i> , 2013, 19, 17939-17950.	1.7	33
30	An atom efficient route to N-aryl and N-alkyl pyrrolines by transition metal catalysis. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2548.	1.5	31
31	Zeolite-Assisted Lignin-First Fractionation of Lignocellulose: Overcoming Lignin Recondensation through Shape-Selective Catalysis. <i>ChemSusChem</i> , 2020, 13, 4528-4536.	3.6	30
32	Ruthenium Carbene Complexes Bearing an Anionic Carboxylate Chelated to a Hemilabile Ligand. <i>Chemistry - A European Journal</i> , 2008, 14, 2686-2692.	1.7	28
33	Tandem Pd/Au-Catalyzed Route to α -Sulfenylated Carbonyl Compounds from Terminal Propargylic Alcohols and Thiols. <i>Chemistry - A European Journal</i> , 2014, 20, 2159-2163.	1.7	25
34	Valorization of <i>Quercus suber</i> Bark toward Hydrocarbon Bio-Oil and 4-Ethylguaiaicol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5737-5742.	3.2	25
35	Mechanistic Insights into the Pd-Catalyzed Direct Amination of Allyl Alcohols: Evidence for an Outer-Sphere Mechanism Involving a Palladium Hydride Intermediate. <i>Chemistry - A European Journal</i> , 2014, 20, 1520-1524.	1.7	24
36	Conversion of birch bark to biofuels. <i>Green Chemistry</i> , 2020, 22, 2255-2263.	4.6	24

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37	H ³ PO ² -Catalyzed Intramolecular Stereospecific Substitution of the Hydroxyl Group in Enantioenriched Secondary Alcohols by N-, O-, and S-Centered Nucleophiles to Generate Heterocycles. <i>ACS Catalysis</i> , 2020, 10, 1344-1352.	5.5	23
38	Debottlenecking a Pulp Mill by Producing Biofuels from Black Liquor in Three Steps. <i>ChemSusChem</i> , 2021, 14, 2414-2425.	3.6	23
39	Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling Reaction of Naphthyl and Quinoyl Alcohols with Boronic Acids. <i>Organic Letters</i> , 2019, 21, 4782-4787.	2.4	22
40	One-Pot Synthesis of Keto Thioethers by Palladium/Gold-Catalyzed Click and Pinacol Reactions. <i>Organic Letters</i> , 2014, 16, 5556-5559.	2.4	21
41	High Yields of Bio Oils from Hydrothermal Processing of Thin Black Liquor without the Use of Catalysts or Capping Agents. <i>ACS Omega</i> , 2018, 3, 6757-6763.	1.6	18
42	Pd/C-Catalyzed Hydrogenolysis of Dibenzodioxocin Lignin Model Compounds Using Silanes and Water as Hydrogen Source. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3726-3731.	3.2	17
43	Quantitative Determination of the Regioselectivity of Nucleophilic Addition to $\hat{\text{I}}^{\text{3}}$ -Propargyl Rhenium Complexes and Direct Observation of an Equilibrium between $\hat{\text{I}}^{\text{3}}$ -Propargyl Rhenium Complexes and Rhenacyclobutenes. <i>Organometallics</i> , 2009, 28, 123-131.	1.1	16
44	ReaxFF Simulations of Lignin Fragmentation on a Palladium-Based Heterogeneous Catalyst in Methanol-Water Solution. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5233-5239.	2.1	16
45	An aqueous and recyclable copper(i)-catalyzed route to $\hat{\text{I}}^{\text{1}}$ -sulfenylated carbonyl compounds from propargylic alcohols and aryl thiols. <i>Green Chemistry</i> , 2013, 15, 3176.	4.6	14
46	Ductile Pd-Catalysed Hydrodearomatization of Phenol-Containing Bio-Oils Into Either Ketones or Alcohols using PMHS and H ₂ O as Hydrogen Source. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3924-3929.	2.1	14
47	Transition-Metal-Catalyzed Suzuki-Miyaura-Type Cross-Coupling Reactions of $\hat{\text{I}}^{\text{1}}$ -Activated Alcohols. <i>Synthesis</i> , 2020, 52, 645-659.	1.2	14
48	Assessing Methodologies to Synthesize $\hat{\text{I}}^{\text{1}}$ -Sulfenylated Carbonyl Compounds by Green Chemistry Metrics. <i>ChemSusChem</i> , 2021, 14, 808-823.	3.6	14
49	Holistic Valorization of Hemp through Reductive Catalytic Fractionation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 17207-17213.	3.2	14
50	Equilibrium Study of Pd(dba) ₂ and P(OPh) ₃ in the Pd-Catalyzed Allylation of Aniline by Allyl Alcohol. <i>Organometallics</i> , 2014, 33, 249-253.	1.1	13
51	Thermal and Mechanical Properties of Esterified Lignin in Various Polymer Blends. <i>Molecules</i> , 2021, 26, 3219.	1.7	13
52	Dual Gold(I)-catalyzed Cyclization of Dialkynyl Pyridinium Salts. <i>ChemCatChem</i> , 2017, 9, 1915-1920.	1.8	11
53	Preface to Special Issue of <i>ChemSusChem</i> on Lignin Valorization: From Theory to Practice. <i>ChemSusChem</i> , 2020, 13, 4175-4180.	3.6	10
54	A New Family of Renewable Thermosets: Kraft Lignin Polyadipates. <i>ChemSusChem</i> , 2022, 15, .	3.6	10

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55	High-Atom Economic Approach To Prepare Chiral $\hat{\pm}$ -Sulfonylated Ketones. <i>Journal of Organic Chemistry</i> , 2019, 84, 11219-11227.	1.7	9
56	Adsorption Isotherms of Lignin-Derived Compounds on a Palladium Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6899-6906.	1.8	9
57	A combination of experimental and computational methods to study the reactions during a Lignin-First approach. <i>Pure and Applied Chemistry</i> , 2020, 92, 631-639.	0.9	9
58	Iron(III)-Catalyzed Nucleophilic Substitution of the Hydroxy Group in Benzoin by Alcohols. <i>Synthesis</i> , 2012, 44, 1213-1218.	1.2	8
59	Detecting Important Intermediates in Pd Catalyzed Depolymerization of a Lignin Model Compound by a Combination of DFT Calculations and Constrained Minima Hopping. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23469-23479.	1.5	8
60	Sustainable sources need reliable standards. <i>Faraday Discussions</i> , 2017, 202, 281-301.	1.6	8
61	Pd-Catalyzed Substitution of the OH Group of Nonderivatized Allylic Alcohols by Phenols. <i>Journal of Organic Chemistry</i> , 2018, 83, 4099-4104.	1.7	8
62	Waste-to-Fuel Approach: Valorization of Lignin from Coconut Coir Pith. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 349-358.	1.0	8
63	Intermolecular Stereospecific Substitution of Underivatized Enantioenriched Secondary Alcohols by Organocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17908-17910.	7.2	5
64	OrganoSoxhlet: circular fractionation to produce pulp for textiles using CO ₂ as acid source. <i>Green Chemistry</i> , 2021, 23, 9401-9405.	4.6	4
65	Synthesis of (Z)-Cinnamate Esters by Nickel-Catalyzed Stereoinvertive Deoxygenation of trans-3-Arylglycidates. <i>Synlett</i> , 2022, 33, 1353-1356.	1.0	4
66	Nucleophilic Substitution of the Hydroxyl Group in Stereogenic Alcohols with Chirality Transfer. <i>Synlett</i> , 2016, 27, 173-176.	1.0	3
67	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017, 202, 121-139.	1.6	3
68	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , 2017, 202, 497-519.	1.6	2
69	Intermolekulare stereospezifische Substitution von underivatisierten enantiomerenangereicherten sekundären Alkoholen durch Organokatalyse. <i>Angewandte Chemie</i> , 2019, 131, 18074-18076.	1.6	2
70	Lignin Valorization by Cobalt-Catalyzed Fractionation of Lignocellulose to Yield Monophenolic Compounds. <i>ChemSusChem</i> , 2019, 12, 342-342.	3.6	1
71	Bio-based chemicals: general discussion. <i>Faraday Discussions</i> , 2017, 202, 227-245.	1.6	0
72	Conversion technologies: general discussion. <i>Faraday Discussions</i> , 2017, 202, 371-389.	1.6	0