

Mahdi M Abu-Omar

List of Publications by Year in descending order

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191
papers

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21215

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196
times ranked

12943
citing authors

#	ARTICLE	IF	CITATIONS
1	Crosslinking of renewable polyesters with epoxides to form bio-based epoxy thermosets. <i>Polymer</i> , 2022, 238, 124363.	1.8	2
2	Recycling Waste Polycarbonate to Bisphenol A-Based Oligoesters as Epoxy-Curing Agents, and Degrading Epoxy Thermosets and Carbon Fiber Composites into Useful Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2429-2440.	3.2	19
3	Preparation and Degradation of Waste Polycarbonate-Derived Epoxy Thermosets and Composites. <i>ACS Applied Polymer Materials</i> , 2022, 4, 413-424.	2.0	11
4	Catalytic conversion of high S-lignin to a sustainable tri-epoxide polymer precursor. <i>Green Chemistry</i> , 2022, 24, 4958-4968.	4.6	8
5	Guidelines for performing lignin-first biorefining. <i>Energy and Environmental Science</i> , 2021, 14, 262-292.	15.6	416
6	A Heterogeneous Pt-ReO ₃ /C Catalyst for Making Renewable Adipates in One Step from Sugar Acids. <i>ACS Catalysis</i> , 2021, 11, 95-109.	5.5	20
7	Ligand-Controlled C ² -H versus C ³ -H Bond Formation in Cycloplatinated Complexes: A Joint Experimental and Theoretical Mechanistic Investigation. <i>Inorganic Chemistry</i> , 2021, 60, 1998-2008.	1.9	6
8	Lignin extraction and valorization using heterogeneous transition metal catalysts. <i>Advances in Inorganic Chemistry</i> , 2021, 77, 137-174.	0.4	8
9	Lignin-Derived Non-Heme Iron and Manganese Complexes: Catalysts for the On-Demand Production of Chlorine Dioxide in Water under Mild Conditions. <i>Inorganic Chemistry</i> , 2021, 60, 2905-2913.	1.9	8
10	Selectivity and competition between N-H and C-H bond activation using an organoplatinum (II) complex. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6234.	1.7	3
11	Catalytic Depolymerization of Date Palm Waste to Valuable C ₅ -C ₁₂ Compounds. <i>Catalysts</i> , 2021, 11, 371.	1.6	2
12	Organosolv Fractionation of Walnut Shell Biomass to Isolate Lignocellulosic Components for Chemical Upgrading of Lignin to Aromatics. <i>ACS Omega</i> , 2021, 6, 8142-8150.	1.6	15
13	Degradation of Thermal-Mechanically Stable Epoxy Thermosets, Recycling of Carbon Fiber, and Reapplication of the Degraded Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5304-5314.	3.2	21
14	Kinetics of Ethylene/1-Hexene Copolymerization over a Single-Site Hafnium Bis(phenolate) Catalyst: Insights into Insertion Complexity and Deactivation Pathways. <i>Macromolecules</i> , 2021, 54, 4101-4111.	2.2	6
15	Selectivity in Competitive C ² -C ³ versus C ³ -C ³ Reductive Eliminations at Pt(IV) Complexes: Experimental and Computational Approaches. <i>Organometallics</i> , 2021, 40, 2051-2063.	1.1	9
16	Origins of Lithium/Sodium Reverse Permeability Selectivity in 12-Crown-4-Functionalized Polymer Membranes. <i>ACS Macro Letters</i> , 2021, 10, 1167-1173.	2.3	13
17	Engineering Li/Na selectivity in 12-Crown-4-functionalized polymer membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	65
18	Preparation and properties of renewable polyesters based on lignin-derived bisphenol. <i>Polymer</i> , 2021, 233, 124202.	1.8	8

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19	Materials Based on Technical Bulk Lignin. ACS Sustainable Chemistry and Engineering, 2021, 9, 1477-1493.	3.2	32
20	Tetranuclear Rollover Cyclometalated Organoplatinum-Rhenium Compound; C-I Oxidative Addition and C-C Reductive Elimination Using a Rollover Cycloplatinated Dimer. Dalton Transactions, 2021, 50, 15015-15026.	1.6	2
21	Chemical Upcycling of Polyethylene to Value-Added \pm 1% Divinyl-Functionalized Oligomers. ACS Sustainable Chemistry and Engineering, 2021, 9, 13926-13936.	3.2	34
22	Preparation of Sustainable Polar Aprotic Solvents from Biomass: One-Pot Two-Step Catalytic Reaction of Cellulose with <i>N,N</i> -Dimethylurea over Ru/C. ACS Sustainable Chemistry and Engineering, 2021, 9, 15008-15015.	3.2	2
23	Advanced Paramagnetic Resonance Studies on Manganese and Iron Corroles with a Formal $d^{4/sup}$ Electron Count. Inorganic Chemistry, 2020, 59, 1075-1090.	1.9	24
24	Hydrogenolysis of Organosolv Lignin in Ethanol/Isopropanol Media without Added Transition-Metal Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 1023-1030.	3.2	55
25	One-pot hydrodeoxygenation (HDO) of lignin monomers to C ₉ hydrocarbons co-catalysed by Ru/C and Nb ₂ O ₅ . Green Chemistry, 2020, 22, 7406-7416.	4.6	33
26	Polyethylene upcycling to long-chain alkylaromatics by tandem hydrogenolysis/aromatization. Science, 2020, 370, 437-441.	6.0	378
27	Degradation Rates of Plastics in the Environment. ACS Sustainable Chemistry and Engineering, 2020, 8, 3494-3511.	3.2	1,463
28	Synthesis and Characterization of Rh ^{III} –M ^{II} (M = Pt, Pd) Heterobimetallic Complexes Based on a Bisphosphine Ligand: Tandem Reactions Using Ethanol. Organometallics, 2020, 39, 3879-3891.	1.1	6
29	Investigation of Non-Isothermal Kinetics and Thermodynamic Parameters for the Pyrolysis of Different Date Palm Parts. Energies, 2020, 13, 6553.	1.6	10
30	Deoxydehydration and Catalytic Transfer Hydrogenation: New Strategy to Valorize Tartaric Acid and Succinic Acid to β -Butyrolactone and Tetrahydrofuran. Energies, 2020, 13, 6402.	1.6	3
31	Full atom-efficiency transformation of wasted polycarbonates into epoxy thermosets and the catalyst-free degradation of the thermosets for environmental sustainability. Green Chemistry, 2020, 22, 4683-4696.	4.6	13
32	Discovery and mechanistic investigation of Pt-catalyzed oxidative homocoupling of benzene with PhI(OAc) ₂ . Dalton Transactions, 2020, 49, 2477-2486.	1.6	7
33	Ligand-Mediated C^{Br} Oxidative Addition to Cycloplatinated(II) Complexes and Benzyl-Me C^{C} Bond Reductive Elimination from a Cycloplatinated(IV) Complex. ACS Omega, 2020, 5, 28621-28631.	1.6	5
34	A facile strategy to achieve fully bio-based epoxy thermosets from eugenol. Green Chemistry, 2019, 21, 4475-4488.	4.6	95
35	Overcoming cellulose recalcitrance in woody biomass for the lignin-first biorefinery. Biotechnology for Biofuels, 2019, 12, 171.	6.2	37
36	Chelating and Bridging Roles of 2-(2-Pyridyl)benzimidazole and Bis(diphenylphosphino)acetylene in Stabilizing a Cyclic Tetranuclear Platinum(II) Complex. Inorganic Chemistry, 2019, 58, 14608-14616.	1.9	3

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37	Synthesis, structural characterization, and luminescence properties of mono- and di-nuclear platinum(II) complexes containing 2-(2-pyridyl)-benzimidazole. <i>Inorganica Chimica Acta</i> , 2019, 498, 119133.	1.2	4
38	Deoxydehydration of Biomass-Derived Polyols with a Reusable Unsupported Rhenium Nanoparticles Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11438-11447.	3.2	26
39	Synthesis and Properties of Quinoxaline-Containing Benzoxazines and Polybenzoxazines. <i>ACS Omega</i> , 2019, 4, 9092-9101.	1.6	15
40	The reaction of activated esters with epoxides for self-curable, highly flexible, A ₂ B ₂ - and A ₃ B ₃ -type epoxy compounds. <i>Polymer Chemistry</i> , 2019, 10, 3983-3995.	1.9	35
41	Structure-property relationship of vinyl-terminated oligo(2,6-dimethyl-1,4-phenylene ether)s (OPEs): Seeking an OPE with better properties. <i>European Polymer Journal</i> , 2019, 117, 94-104.	2.6	9
42	Catechol-Mediated Glycidylation toward Epoxy Vitrimers/Polymers with Tunable Properties. <i>Macromolecules</i> , 2019, 52, 3646-3654.	2.2	82
43	Arene C-H bond activation and methane formation by a methylplatinum(II) complex: experimental and theoretical elucidation of the mechanism. <i>New Journal of Chemistry</i> , 2019, 43, 8005-8014.	1.4	9
44	Isolation and characterization of cellulose and Î±-cellulose from date palm biomass waste. <i>Heliyon</i> , 2019, 5, e02937.	1.4	84
45	N-methylation versus oxidative addition using MeI in the reaction of organoplatinum(II) complexes containing pyrazine ligand. <i>Journal of Organometallic Chemistry</i> , 2019, 880, 232-240.	0.8	5
46	Renewable thermoset polymers based on lignin and carbohydrate derived monomers. <i>Green Chemistry</i> , 2018, 20, 1131-1138.	4.6	65
47	Lignin extraction and catalytic upgrading from genetically modified poplar. <i>Green Chemistry</i> , 2018, 20, 745-753.	4.6	96
48	Carbon-Oxygen Bond Forming Reductive Elimination from Cycloplatinated(IV) Complexes. <i>Organometallics</i> , 2018, 37, 87-98.	1.1	22
49	Renewable Epoxy Thermosets from Fully Lignin-Derived Triphenols. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7600-7608.	3.2	79
50	Recyclable and Malleable Epoxy Thermoset Bearing Aromatic Imine Bonds. <i>Macromolecules</i> , 2018, 51, 9816-9824.	2.2	241
51	Quantitative Modeling of the Temperature Dependence of the Kinetic Parameters for Zirconium Amine Bis(Phenolate) Catalysts for 1-Hexene Polymerization. <i>ACS Catalysis</i> , 2018, 8, 10407-10418.	5.5	9
52	Formaldehyde-Free Method for Incorporating Lignin into Epoxy Thermosets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10628-10636.	3.2	47
53	Mechanistic Insights into Chromium-Catalyzed Ethylene Trimerization. <i>ACS Catalysis</i> , 2018, 8, 6810-6819.	5.5	23
54	Mechanism of Me-Re Bond Addition to Platinum(II) and Dioxygen Activation by the Resulting Pt-Re Bimetallic Center. <i>Inorganic Chemistry</i> , 2017, 56, 2145-2152.	1.9	10

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55	Synthesis of Renewable Thermoset Polymers through Successive Lignin Modification Using Lignin-Derived Phenols. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5059-5066.	3.2	119
56	Renewable Thermoplastics Based on Lignin-Derived Polyphenols. <i>Macromolecules</i> , 2017, 50, 3573-3581.	2.2	82
57	Mild, Selective Sulfoxidation with Molybdenum(VI) <i>cis</i> -Dioxo Catalysts. <i>ACS Omega</i> , 2017, 2, 1778-1785.	1.6	15
58	Synthesis, characterization and DFT study of digold(II) naphth-di-yl complex. <i>Journal of Organometallic Chemistry</i> , 2017, 844, 30-34.	0.8	3
59	Carbon Dioxide Reduction to Silyl-Protected Methanol Catalyzed by an Oxorhenium Pincer PNN Complex. <i>Organometallics</i> , 2017, 36, 1688-1691.	1.1	30
60	Synthesis and Characterization of Cu ₃ (Sb _{1-x} As _x)S ₄ Semiconducting Nanocrystal Alloys with Tunable Properties for Optoelectronic Device Applications. <i>Chemistry of Materials</i> , 2017, 29, 573-578.	3.2	22
61	Ring flipping in heterobimetallic Re-Ir complexes and its effect on structural isomerism: Dynamic NMR and DFT study. <i>Journal of Organometallic Chemistry</i> , 2017, 843, 62-65.	0.8	1
62	Steric and Solvation Effects on Polymerization Kinetics, Dormancy, and Tacticity of Zr-Salan Catalysts. <i>Organometallics</i> , 2017, 36, 2237-2244.	1.1	10
63	Atomic-Level Structure Characterization of Biomass Pre- and Post-Lignin Treatment by Dynamic Nuclear Polarization-Enhanced Solid-State NMR. <i>Journal of Physical Chemistry A</i> , 2017, 121, 623-630.	1.1	57
64	Mechanistic Insights into Concerted C ^α Reductive Elimination from Homoleptic Uranium Alkyls. <i>Organometallics</i> , 2017, 36, 3491-3497.	1.1	13
65	Initial Products and Reaction Mechanisms for Fast Pyrolysis of Synthetic Lignin Oligomers with C ₄ Linkages via Online Mass Spectrometry and Quantum Chemical Calculations. <i>ChemistrySelect</i> , 2017, 2, 7185-7193.	0.7	12
66	Which is the Stronger Nucleophile, Platinum or Nitrogen in Rollover Cycloplatinated(II) Complexes?. <i>Inorganic Chemistry</i> , 2017, 56, 14706-14713.	1.9	11
67	Interaction between Two Active Sites of the Same Catalyst for Macromonomer Enchained Olefin Polymerization. <i>Macromolecules</i> , 2017, 50, 9151-9161.	2.2	5
68	In-situ cleaning of heavy metal contaminated plastic water pipes using a biomass derived ligand. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3622-3631.	3.3	14
69	Highly Regioselective β -Olefin Dimerization Using Zirconium and Hafnium Amine Bis(phenolate) Complexes. <i>Organometallics</i> , 2017, 36, 2934-2939.	1.1	9
70	Quantitative Comparative Kinetics of 1-Hexene Polymerization across Group IV Bis-Phenolate Catalysts. <i>ACS Catalysis</i> , 2016, 6, 5138-5145.	5.5	18
71	Renewable Epoxy Networks Derived from Lignin-Based Monomers: Effect of Cross-Linking Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6082-6089.	3.2	133
72	Identification of the Phenol Functionality in Deprotonated Monomeric and Dimeric Lignin Degradation Products via Tandem Mass Spectrometry Based on Ion-Molecule Reactions with Diethylmethoxyborane. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1813-1823.	1.2	12

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73	Lewis Acid-Assisted Hydrogen Atom Transfer to Manganese(V)-Oxo Corrole through Valence Tautomerization. <i>ChemistryOpen</i> , 2016, 5, 522-524.	0.9	9
74	Maleic acid and aluminum chloride catalyzed conversion of glucose to 5-(hydroxymethyl) furfural and levulinic acid in aqueous media. <i>Green Chemistry</i> , 2016, 18, 5219-5229.	4.6	110
75	Solution-based synthesis and characterization of earth abundant Cu ₃ (As,Sb)Se ₄ nanocrystal alloys: towards scalable room-temperature thermoelectric devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2198-2204.	5.2	17
76	Configuration Control in the Synthesis of Homo- and Heteroleptic Bis(oxazolinyphenolato/thiazolinyphenolato) Chelate Ligand Complexes of Oxorhenium(V): Isomer Effect on Ancillary Ligand Exchange Dynamics and Implications for Perchlorate Reduction Catalysis. <i>Inorganic Chemistry</i> , 2016, 55, 2597-2611.	1.9	26
77	Mechanistic investigation of the Zn/Pd/C catalyzed cleavage and hydrodeoxygenation of lignin. <i>Green Chemistry</i> , 2016, 18, 2399-2405.	4.6	119
78	Mechanism of Isomerization and Methyl Migration in Heterobimetallic Rhenium-Iridium Complexes: Experimental and DFT Study. <i>Organometallics</i> , 2016, 35, 605-611.	1.1	5
79	Total Utilization of Miscanthus Biomass, Lignin and Carbohydrates, Using Earth Abundant Nickel Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2316-2322.	3.2	182
80	Catalytic Upgrading of 5-Hydroxymethylfurfural to Drop-in Biofuels by Solid Base and Bifunctional Metal-Acid Catalysts. <i>ChemSusChem</i> , 2015, 8, 4022-4029.	3.6	79
81	Upgrading Furfurals to Drop-in Biofuels: An Overview. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1263-1277.	3.2	259
82	Valence Tautomerization of High-Valent Manganese(V)-Oxo Corrole Induced by Protonation of the Oxo Ligand. <i>Journal of the American Chemical Society</i> , 2015, 137, 14481-14487.	6.6	56
83	Tandem mass spectrometric characterization of the conversion of xylose to furfural. <i>Biomass and Bioenergy</i> , 2015, 74, 1-5.	2.9	10
84	Current Technologies, Economics, and Perspectives for 2,5-Dimethylfuran Production from Biomass-Derived Intermediates. <i>ChemSusChem</i> , 2015, 8, 1133-1142.	3.6	101
85	Biobased Epoxy Nanocomposites Derived from Lignin-Based Monomers. <i>Biomacromolecules</i> , 2015, 16, 2025-2031.	2.6	114
86	Lignin depolymerization over Ni/C catalyst in methanol, a continuation: effect of substrate and catalyst loading. <i>Catalysis Science and Technology</i> , 2015, 5, 3242-3245.	2.1	129
87	Catalytic Two-Electron Reduction of Dioxygen by Ferrocene Derivatives with Manganese(V) Corroles. <i>Inorganic Chemistry</i> , 2015, 54, 4285-4291.	1.9	33
88	Synthesis and Characterization of Copper Arsenic Sulfide Nanocrystals from Earth Abundant Elements for Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015, 27, 2290-2293.	3.2	21
89	Mechanistic study of a manganese porphyrin catalyst for on-demand production of chlorine dioxide in water. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 492-499.	0.4	5
90	Speciation and kinetic study of iron promoted sugar conversion to 5-hydroxymethylfurfural (HMF) and levulinic acid (LA). <i>Organic Chemistry Frontiers</i> , 2015, 2, 1388-1396.	2.3	46

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91	Activationless Electron Self-Exchange of High-Valent Oxo and Imido Complexes of Chromium Corroles. <i>Inorganic Chemistry</i> , 2015, 54, 9223-9228.	1.9	11
92	A synergistic biorefinery based on catalytic conversion of lignin prior to cellulose starting from lignocellulosic biomass. <i>Green Chemistry</i> , 2015, 17, 1492-1499.	4.6	370
93	From Furfural to Fuel: Synthesis of Furoins by Organocatalysis and their Hydrodeoxygenation by Cascade Catalysis. <i>ChemSusChem</i> , 2014, 7, 2742-2747.	3.6	63
94	Concurrent Stabilization of σ -Donor and π -Acceptor Ligands in Aromatized and Dearomatized Pincer [(PNN)Re(CO)(O) ₂] Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8320-8322.	7.2	7
95	Selective Degenerative Benzyl Group Transfer in Olefin Polymerization. <i>ACS Catalysis</i> , 2014, 4, 1162-1170.	5.5	14
96	Non-Heme Manganese Catalysts for On-Demand Production of Chlorine Dioxide in Water and Under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2014, 136, 3680-3686.	6.6	26
97	Efficient Solid Acid Catalyst Containing Lewis and Brønsted Acid Sites for the Production of Furfurals. <i>ChemSusChem</i> , 2014, 7, 2342-2350.	3.6	106
98	Advances in 5-hydroxymethylfurfural production from biomass in biphasic solvents. <i>Green Chemistry</i> , 2014, 16, 24-38.	4.6	470
99	Synthesis, Dynamics, and DFT Studies of Rhenium Dicarboxylate Pincer Complexes in Three Different Oxidation States. <i>Organometallics</i> , 2014, 33, 1672-1677.	1.1	11
100	Zinc-Assisted Hydrodeoxygenation of Biomass-Derived 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. <i>ChemSusChem</i> , 2014, 7, 3095-3101.	3.6	152
101	C-H Activation of Methyltrioxorhenium by Pincer Iridium Hydride To Give Agile Ir-Re Bimetallic Compounds. <i>Organometallics</i> , 2014, 33, 5089-5092.	1.1	6
102	High-Valent Chromium-Oxo Complex Acting as an Efficient Catalyst Precursor for Selective Two-Electron Reduction of Dioxygen by a Ferrocene Derivative. <i>Inorganic Chemistry</i> , 2014, 53, 7780-7788.	1.9	49
103	Titanium hydrogenphosphate: An efficient dual acidic catalyst for 5-hydroxymethylfurfural (HMF) production. <i>Applied Catalysis A: General</i> , 2014, 486, 42-48.	2.2	64
104	Zwitterionic Ring-Opening Polymerization: Models for Kinetics of Cyclic Poly(caprolactone) Synthesis. <i>Macromolecules</i> , 2014, 47, 2955-2963.	2.2	63
105	Effects of Electronic Perturbations on 1-Hexene Polymerization Catalyzed by Zirconium Amine Bisphenolate Complexes. <i>ACS Catalysis</i> , 2014, 4, 2186-2190.	5.5	12
106	The mechanism of mediated oxidation of carboxylates with ferrocene as redox catalyst in absence of grafting effects. An experimental and theoretical approach. <i>Electrochimica Acta</i> , 2014, 136, 542-549.	2.6	18
107	An additional substrate binding site in a bacterial phenylalanine hydroxylase. <i>European Biophysics Journal</i> , 2013, 42, 691-708.	1.2	10
108	Comparison of Selected Zirconium and Hafnium Amine Bis(phenolate) Catalysts for 1-Hexene Polymerization. <i>Organometallics</i> , 2013, 32, 4862-4867.	1.1	14

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109	Synthesis and Electrochemical Reactivity of Molybdenum Dicarbonyl Supported by a Redox-Active λ^2 -Diimine Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 5457-5463.	1.9	14
110	Cleavage and hydrodeoxygenation (HDO) of C=O bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. <i>Chemical Science</i> , 2013, 4, 806-813.	3.7	294
111	Effects of Pendant Ligand Binding Affinity on Chain Transfer for 1-Hexene Polymerization Catalyzed by Single-Site Zirconium Amine Bis-Phenolate Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 6280-6288.	6.6	38
112	Mechanism of MTO-Catalyzed Deoxydehydration of Diols to Alkenes Using Sacrificial Alcohols. <i>Organometallics</i> , 2013, 32, 3210-3219.	1.1	69
113	Porphyrin-based porous organic polymer-supported iron(III) catalyst for efficient aerobic oxidation of 5-hydroxymethyl-furfural into 2,5-furandicarboxylic acid. <i>Journal of Catalysis</i> , 2013, 299, 316-320.	3.1	179
114	The effect of hydrochloric acid on the conversion of glucose to 5-hydroxymethylfurfural in $AlCl_3 \cdot H_2O/THF$ biphasic medium. <i>Journal of Molecular Catalysis A</i> , 2013, 376, 98-102.	4.8	65
115	Conversion of carbohydrates and lignocellulosic biomass into 5-hydroxymethylfurfural using $AlCl_3 \cdot 6H_2O$ catalyst in a biphasic solvent system. <i>Green Chemistry</i> , 2012, 14, 509-513.	4.6	298
116	Selective Conversion of Biomass Hemicellulose to Furfural Using Maleic Acid with Microwave Heating. <i>Energy & Fuels</i> , 2012, 26, 1298-1304.	2.5	121
117	High-Performance Liquid Chromatography/High-Resolution Multiple Stage Tandem Mass Spectrometry Using Negative-Ion-Mode Hydroxide-Doped Electrospray Ionization for the Characterization of Lignin Degradation Products. <i>Analytical Chemistry</i> , 2012, 84, 6000-6007.	3.2	94
118	Solvent-Free Methods for Making Acetals Derived from Glycerol and Furfural and Their Use as a Biodiesel Fuel Component. <i>ACS Catalysis</i> , 2012, 2, 2524-2530.	5.5	80
119	Trioxorhena(VII)carborane Anion and Its Methyl-Substituted Analogue: Synthesis, Structure, DFT, and Catalytic Studies. <i>Organometallics</i> , 2012, 31, 1888-1896.	1.1	6
120	Aerobic oxidation of 5-hydroxymethylfurfural with homogeneous and nanoparticulate catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 79-81.	2.1	136
121	Heteropolyacid catalyzed conversion of fructose, sucrose, and inulin to 5-ethoxymethylfurfural, a liquid biofuel candidate. <i>Applied Energy</i> , 2012, 99, 80-84.	5.1	131
122	Structure-Activity Correlation for Relative Chain Initiation to Propagation Rates in Single-Site Olefin Polymerization Catalysis. <i>Organometallics</i> , 2012, 31, 602-618.	1.1	20
123	Kinetic Modeling of 1-Hexene Polymerization Catalyzed by $Zr(t\text{-Bu-ON})_2(B(C_6F_5)_3)_3$. <i>Macromolecules</i> , 2012, 45, 4978-4988.		20
124	Synthesis of Furfural from Xylose, Xylan, and Biomass Using $AlCl_3 \cdot 6H_2O$ in Biphasic Media via Xylose Isomerization to Xylulose. <i>ChemSusChem</i> , 2012, 5, 405-410.	3.6	172
125	Rhenium-Catalyzed Transfer Hydrogenation and Deoxygenation of Biomass-Derived Polyols to Small and Useful Organics. <i>ChemSusChem</i> , 2012, 5, 1401-1404.	3.6	115
126	Characterization of model compounds of processed lignin and the lignome by using atmospheric pressure ionization tandem mass spectrometry. <i>Fuel</i> , 2012, 95, 634-641.	3.4	47

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127	Direct conversion of cellulose and lignocellulosic biomass into chemicals and biofuel with metal chloride catalysts. <i>Journal of Catalysis</i> , 2012, 288, 8-15.	3.1	232
128	High-valent iron and manganese complexes of corrole and porphyrin in atom transfer and dioxygen evolving catalysis. <i>Dalton Transactions</i> , 2011, 40, 3435.	1.6	96
129	Computational Investigation of the Concerted Dismutation of Chlorite Ion by Water-Soluble Iron Porphyrins. <i>Inorganic Chemistry</i> , 2011, 50, 7928-7930.	1.9	19
130	Observation of Inductive Effects That Cause a Change in the Rate-Determining Step for the Conversion of Rhenium Azides to Imido Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 10505-10514.	1.9	16
131	Folding dynamics of phenylalanine hydroxylase depends on the enzyme's metallation state: the native metal, iron, protects against aggregate intermediates. <i>European Biophysics Journal</i> , 2011, 40, 959-968.	1.2	4
132	Chlorite Dismutation to Chlorine Dioxide Catalyzed by a Water-Soluble Manganese Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 699-702.	7.2	26
133	Mechanistic Detail Revealed via Comprehensive Kinetic Modeling of [<i>rac</i> -(C ₂ H ₄ (1-indenyl) ₂ ZrMe ₂)]-Catalyzed 1-Hexene Polymerization. <i>Journal of the American Chemical Society</i> , 2010, 132, 558-566.	6.6	46
134	Dehydrocoupling of Organosilanes with a Dinuclear Nickel Hydride Catalyst and Isolation of a Nickel Silyl Complex. <i>Organometallics</i> , 2010, 29, 6527-6533.	1.1	47
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