

Bin Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7988480/publications.pdf>

Version: 2024-02-01

88
papers

8,974
citations

50276

46
h-index

49909

87
g-index

95
all docs

95
docs citations

95
times ranked

7809
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin valorization: Status, challenges and opportunities. <i>Bioresource Technology</i> , 2022, 347, 126696.	9.6	136
2	Extremophiles and extremozymes in lignin bioprocessing. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112069.	16.4	25
3	Lignin-based jet fuel and its blending effect with conventional jet fuel. <i>Fuel</i> , 2022, 321, 124040.	6.4	13
4	Proteomic Approaches for Advancing the Understanding and Application of Oleaginous Bacteria for Bioconversion of Lignin to Lipids. <i>ACS Symposium Series</i> , 2021, , 61-96.	0.5	3
5	Enhancement of polyhydroxyalkanoate production by co-feeding lignin derivatives with glycerol in <i>Pseudomonas putida</i> KT2440. <i>Biotechnology for Biofuels</i> , 2021, 14, 11.	6.2	28
6	Lipid production from non-sugar compounds in pretreated lignocellulose hydrolysates by <i>Rhodococcus jostii</i> RHA1. <i>Biomass and Bioenergy</i> , 2021, 145, 105970.	5.7	6
7	Transforming biorefinery designs with "Plug-In Processes of Lignin"™ to enable economic waste valorization. <i>Nature Communications</i> , 2021, 12, 3912.	12.8	71
8	Facile One-Pot Nanoproteomics for Label-Free Proteome Profiling of 50–1000 Mammalian Cells. <i>Journal of Proteome Research</i> , 2021, 20, 4452-4461.	3.7	12
9	Mass spectrometry-based direct detection of multiple types of protein thiol modifications in pancreatic beta cells under endoplasmic reticulum stress. <i>Redox Biology</i> , 2021, 46, 102111.	9.0	27
10	Severity factor kinetic model as a strategic parameter of hydrothermal processing (steam explosion) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> 2021, 342, 125961.	9.6	83
11	Decoding lignin valorization pathways in the extremophilic <i>Bacillus ligninophilus</i> L1 for vanillin biosynthesis. <i>Green Chemistry</i> , 2021, 23, 9554-9570.	9.0	25
12	Catalytic routes for the conversion of lignocellulosic biomass to aviation fuel range hydrocarbons. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109612.	16.4	97
13	Cover Image, Volume 14, Issue 3. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, i.	3.7	0
14	Flowthrough Pretreatment of Softwood under Water-Only and Alkali Conditions. <i>Energy & Fuels</i> , 2020, 34, 16310-16319.	5.1	7
15	Insight into Depolymerization Mechanism of Bacterial Laccase for Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12920-12933.	6.7	53
16	Lignin-derived electrochemical energy materials and systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 650-672.	3.7	73
17	Chemical compositions and properties of lignin-based jet fuel range hydrocarbons. <i>Fuel</i> , 2019, 256, 115947.	6.4	15
18	In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. <i>Electrochemical Energy Reviews</i> , 2019, 2, 467-491.	25.5	30

#	ARTICLE	IF	CITATIONS
19	Selecting winter wheat straw for cellulosic ethanol production in the Pacific Northwest, U.S.A. <i>Biomass and Bioenergy</i> , 2019, 123, 59-69.	5.7	16
20	Discovery of potential pathways for biological conversion of poplar wood into lipids by co-fermentation of <i>Rhodococci</i> strains. <i>Biotechnology for Biofuels</i> , 2019, 12, 60.	6.2	69
21	Depolymerization of corn stover lignin with bulk molybdenum carbide catalysts. <i>Fuel</i> , 2019, 244, 528-535.	6.4	39
22	Identifying and creating pathways to improve biological lignin valorization. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 349-362.	16.4	116
23	An effective hybrid strategy for converting rice straw to furoic acid by tandem catalysis via Sn-sepiolite combined with recombinant <i>E. coli</i> whole cells harboring horse liver alcohol dehydrogenase. <i>Green Chemistry</i> , 2019, 21, 5914-5923.	9.0	39
24	From lignin to valuable products—strategies, challenges, and prospects. <i>Bioresource Technology</i> , 2019, 271, 449-461.	9.6	565
25	Kinetic understanding of nitrogen supply condition on biosynthesis of polyhydroxyalkanoate from benzoate by <i>Pseudomonas putida</i> KT2440. <i>Bioresource Technology</i> , 2019, 273, 538-544.	9.6	32
26	Techno-economic analysis of jet fuel production from biorefinery waste lignin. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 486-501.	3.7	67
27	First principles density functional theory study of Pb doped δ -MnO ₂ catalytic materials. <i>Chemical Physics Letters</i> , 2018, 695, 216-221.	2.6	11
28	Strengths, challenges, and opportunities for hydrothermal pretreatment in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 125-138.	3.7	111
29	Production of Jet Fuel-Range Hydrocarbons from Hydrodeoxygenation of Lignin over Super Lewis Acid Combined with Metal Catalysts. <i>ChemSusChem</i> , 2018, 11, 285-291.	6.8	88
30	Genomics and biochemistry investigation on the metabolic pathway of milled wood and alkali lignin-derived aromatic metabolites of <i>Comamonas serinivorans</i> SP-35. <i>Biotechnology for Biofuels</i> , 2018, 11, 338.	6.2	39
31	Pretreatment Process and Its Synergistic Effects on Enzymatic Digestion of Lignocellulosic Material. , 2018, , 1-25.		4
32	Effects of Sugars, Furans, and their Derivatives on Hydrodeoxygenation of Biorefinery Lignin-Rich Wastes to Hydrocarbons. <i>ChemSusChem</i> , 2018, 11, 2562-2568.	6.8	30
33	Tuning of oxygen species and active Pd ²⁺ species of supported catalysts via morphology and Mn doping in oxidative carbonylation of phenol. <i>Molecular Catalysis</i> , 2018, 457, 1-7.	2.0	14
34	High Catalytic Efficiency of Lignin Depolymerization over Low Pd-Zeolite Y Loading at Mild Temperature. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	9
35	Lipid Production from Dilute Alkali Corn Stover Lignin by <i>Rhodococcus</i> Strains. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2302-2311.	6.7	101
36	Biodegradation of alkaline lignin by <i>Bacillus ligniniphilus</i> L1. <i>Biotechnology for Biofuels</i> , 2017, 10, 44.	6.2	129

#	ARTICLE	IF	CITATIONS
37	One-Pot Process for Hydrodeoxygenation of Lignin to Alkanes Using Ru-Based Bimetallic and Bifunctional Catalysts Supported on Zeolite Y. <i>ChemSusChem</i> , 2017, 10, 1846-1856.	6.8	127
38	Catalytic hydrodeoxygenation of anisole: an insight into the role of metals in transalkylation reactions in bio-oil upgrading. <i>Green Chemistry</i> , 2017, 19, 1668-1673.	9.0	55
39	Biological conversion of the aqueous wastes from hydrothermal liquefaction of algae and pine wood by Rhodococci. <i>Bioresource Technology</i> , 2017, 224, 457-464.	9.6	41
40	Discovery of Cellulose Surface Layer Conformation by Nonlinear Vibrational Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 44319.	3.3	9
41	Effects of Lignin Structure on Hydrodeoxygenation Reactivity of Pine Wood Lignin to Valuable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1824-1830.	6.7	90
42	Dynamic changes of substrate reactivity and enzyme adsorption on partially hydrolyzed cellulose. <i>Biotechnology and Bioengineering</i> , 2017, 114, 503-515.	3.3	24
43	Combined Severity Factor for Predicting Sugar Recovery in Acid-Catalyzed Pretreatment Followed by Enzymatic Hydrolysis. , 2017, , 161-180.		15
44	Intraspecific Variation and Phylogenetic Relationships Are Revealed by ITS1 Secondary Structure Analysis and Single-Nucleotide Polymorphism in <i>Ganoderma lucidum</i> . <i>PLoS ONE</i> , 2017, 12, e0169042.	2.5	14
45	Revealing the Molecular Structural Transformation of Hardwood and Softwood in Dilute Acid Flowthrough Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6618-6628.	6.7	38
46	ZnCl ₂ induced catalytic conversion of softwood lignin to aromatics and hydrocarbons. <i>Green Chemistry</i> , 2016, 18, 2802-2810.	9.0	76
47	Enzymatic in situ saccharification of chestnut shell with high ionic liquid-tolerant cellulases from <i>Galactomyces</i> sp. CCZU11-1 in a biocompatible ionic liquid-cellulase media. <i>Bioresource Technology</i> , 2016, 201, 133-139.	9.6	42
48	Physiochemical Characterization of Lignocellulosic Biomass Dissolution by Flowthrough Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 219-227.	6.7	25
49	Simultaneous conversion of all cell wall components by an oleaginous fungus without chemi-physical pretreatment. <i>Green Chemistry</i> , 2015, 17, 1657-1667.	9.0	53
50	Controlling Porosity in Lignin-Derived Nanoporous Carbon for Supercapacitor Applications. <i>ChemSusChem</i> , 2015, 8, 411-411.	6.8	7
51	Characterization of lignin derived from water-only and dilute acid flowthrough pretreatment of poplar wood at elevated temperatures. <i>Biotechnology for Biofuels</i> , 2015, 8, 203.	6.2	86
52	Enhancement of enzymatic saccharification of corn stover with sequential Fenton pretreatment and dilute NaOH extraction. <i>Bioresource Technology</i> , 2015, 193, 324-330.	9.6	70
53	Vibrational spectral signatures of crystalline cellulose using high resolution broadband sum frequency generation vibrational spectroscopy (HR-BB-SFG-VS). <i>Cellulose</i> , 2015, 22, 1469-1484.	4.9	17
54	Biomass-derived lignin to jet fuel range hydrocarbons via aqueous phase hydrodeoxygenation. <i>Green Chemistry</i> , 2015, 17, 5131-5135.	9.0	141

#	ARTICLE	IF	CITATIONS
55	Controlling Porosity in Lignin-Derived Nanoporous Carbon for Supercapacitor Applications. <i>ChemSusChem</i> , 2015, 8, 428-432.	6.8	196
56	Enhancement of total sugar and lignin yields through dissolution of poplar wood by hot water and dilute acid flowthrough pretreatment. <i>Biotechnology for Biofuels</i> , 2014, 7, 76.	6.2	46
57	A comprehensive mechanistic kinetic model for dilute acid hydrolysis of switchgrass cellulose to glucose, 5-HMF and levulinic acid. <i>RSC Advances</i> , 2014, 4, 23492.	3.6	70
58	Noble-metal catalyzed hydrodeoxygenation of biomass-derived lignin to aromatic hydrocarbons. <i>Green Chemistry</i> , 2014, 16, 897.	9.0	141
59	Aqueous phase catalytic conversion of agarose to 5-hydroxymethylfurfural by metal chlorides. <i>RSC Advances</i> , 2013, 3, 24090.	3.6	27
60	Characterization of lignin derived from water-only flowthrough pretreatment of <i>Miscanthus</i> . <i>Industrial Crops and Products</i> , 2013, 50, 391-399.	5.2	45
61	Pathways for biomass-derived lignin to hydrocarbon fuels. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 602-626.	3.7	169
62	Rapid selection and identification of <i>Miscanthus</i> genotypes with enhanced glucan and xylan yields from hydrothermal pretreatment followed by enzymatic hydrolysis. <i>Biotechnology for Biofuels</i> , 2012, 5, 56.	6.2	43
63	Cultivar variation and selection potential relevant to the production of cellulosic ethanol from wheat straw. <i>Biomass and Bioenergy</i> , 2012, 37, 221-228.	5.7	54
64	Enzymatic hydrolysis of cellulosic biomass. <i>Biofuels</i> , 2011, 2, 421-449.	2.4	450
65	Investigation of enzyme formulation on pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11072-11079.	9.6	21
66	Surface and ultrastructural characterization of raw and pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11097-11104.	9.6	62
67	Comparative material balances around pretreatment technologies for the conversion of switchgrass to soluble sugars. <i>Bioresource Technology</i> , 2011, 102, 11063-11071.	9.6	117
68	Application of cellulase and hemicellulase to pure xylan, pure cellulose, and switchgrass solids from leading pretreatments. <i>Bioresource Technology</i> , 2011, 102, 11080-11088.	9.6	54
69	Comparative study on enzymatic digestibility of switchgrass varieties and harvests processed by leading pretreatment technologies. <i>Bioresource Technology</i> , 2011, 102, 11089-11096.	9.6	93
70	Process and technoeconomic analysis of leading pretreatment technologies for lignocellulosic ethanol production using switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11105-11114.	9.6	274
71	Comparison of microwaves to fluidized sand baths for heating tubular reactors for hydrothermal and dilute acid batch pretreatment of corn stover. <i>Bioresource Technology</i> , 2011, 102, 5952-5961.	9.6	54
72	The effect of bovine serum albumin on batch and continuous enzymatic cellulose hydrolysis mixed by stirring or shaking. <i>Bioresource Technology</i> , 2011, 102, 6295-6298.	9.6	56

#	ARTICLE	IF	CITATIONS
73	Impact of surfactants on pretreatment of corn stover. <i>Bioresource Technology</i> , 2010, 101, 5941-5951.	9.6	182
74	Xylooligomers are strong inhibitors of cellulose hydrolysis by enzymes. <i>Bioresource Technology</i> , 2010, 101, 9624-9630.	9.6	459
75	Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. <i>Energy and Environmental Science</i> , 2010, 3, 358.	30.8	157
76	Near Infrared Spectroscopy as a Screening Tool for Sugar Release and Chemical Composition of Wheat Straw. <i>Journal of Biobased Materials and Bioenergy</i> , 2010, 4, 378-383.	0.3	23
77	Dilute Acid and Autohydrolysis Pretreatment. <i>Methods in Molecular Biology</i> , 2009, 581, 103-114.	0.9	39
78	Cellulosic biomass could help meet California's transportation fuel needs. <i>California Agriculture</i> , 2009, 63, 185-190.	0.8	16
79	Pretreatment: the key to unlocking low-cost cellulosic ethanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 26-40.	3.7	1,247
80	Characterization of the degree of polymerization of xylooligomers produced by flowthrough hydrolysis of pure xylan and corn stover with water. <i>Bioresource Technology</i> , 2008, 99, 5756-5762.	9.6	85
81	The promise of cellulosic ethanol production in China. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 6-10.	3.2	26
82	BSA treatment to enhance enzymatic hydrolysis of cellulose in lignin containing substrates. <i>Biotechnology and Bioengineering</i> , 2006, 94, 611-617.	3.3	438
83	Changes in the enzymatic hydrolysis rate of Avicel cellulose with conversion. <i>Biotechnology and Bioengineering</i> , 2006, 94, 1122-1128.	3.3	141
84	Effect of xylan and lignin removal by batch and flowthrough pretreatment on the enzymatic digestibility of corn stover cellulose. <i>Biotechnology and Bioengineering</i> , 2004, 86, 88-98.	3.3	598
85	Unconventional Relationships for Hemicellulose Hydrolysis and Subsequent Cellulose Digestion. <i>ACS Symposium Series</i> , 2004, , 100-125.	0.5	27
86	Fast and efficient alkaline peroxide treatment to enhance the enzymatic digestibility of steam-exploded softwood substrates. <i>Biotechnology and Bioengineering</i> , 2002, 77, 678-684.	3.3	138
87	Cellulase Adsorption and an Evaluation of Enzyme Recycle During Hydrolysis of Steam-Exploded Softwood Residues. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 641-654.	2.9	196
88	The effect of shaking regime on the rate and extent of enzymatic hydrolysis of cellulose. <i>Journal of Biotechnology</i> , 2001, 88, 177-182.	3.8	79