

Bin Yang

List of Publications by Year in descending order

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88
papers

8,974
citations

50170

46
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49773

87
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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. | 4.8 | 136 |
| 2 | Extremophiles and extremozymes in lignin bioprocessing. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112069. | 8.2 | 25 |
| 3 | Lignin-based jet fuel and its blending effect with conventional jet fuel. <i>Fuel</i> , 2022, 321, 124040. | 3.4 | 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. | 2.9 | 6 |
| 7 | Transforming biorefinery designs with "Plug-In Processes of Lignin"™ to enable economic waste valorization. <i>Nature Communications</i> , 2021, 12, 3912. | 5.8 | 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. | 1.8 | 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. | 3.9 | 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. | 4.8 | 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. | 4.6 | 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. | 8.2 | 97 |
| 13 | Cover Image, Volume 14, Issue 3. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, i. | 1.9 | 0 |
| 14 | Flowthrough Pretreatment of Softwood under Water-Only and Alkali Conditions. <i>Energy & Fuels</i> , 2020, 34, 16310-16319. | 2.5 | 7 |
| 15 | Insight into Depolymerization Mechanism of Bacterial Laccase for Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12920-12933. | 3.2 | 53 |
| 16 | Lignin-derived electrochemical energy materials and systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 650-672. | 1.9 | 73 |
| 17 | Chemical compositions and properties of lignin-based jet fuel range hydrocarbons. <i>Fuel</i> , 2019, 256, 115947. | 3.4 | 15 |
| 18 | In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. <i>Electrochemical Energy Reviews</i> , 2019, 2, 467-491. | 13.1 | 30 |

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|----|--|-----|-----------|
| 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. | 2.9 | 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. | 3.4 | 39 |
| 22 | Identifying and creating pathways to improve biological lignin valorization. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 349-362. | 8.2 | 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. | 4.6 | 39 |
| 24 | From lignin to valuable products—strategies, challenges, and prospects. <i>Bioresource Technology</i> , 2019, 271, 449-461. | 4.8 | 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. | 4.8 | 32 |
| 26 | Techno-economic analysis of jet fuel production from biorefinery waste lignin. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 486-501. | 1.9 | 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. | 1.2 | 11 |
| 28 | Strengths, challenges, and opportunities for hydrothermal pretreatment in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 125-138. | 1.9 | 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. | 3.6 | 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. | 3.6 | 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. | 1.0 | 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, . | 1.2 | 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. | 3.2 | 101 |
| 36 | Biodegradation of alkaline lignin by <i>Bacillus ligniniphilus</i> L1. <i>Biotechnology for Biofuels</i> , 2017, 10, 44. | 6.2 | 129 |

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|----|--|-----|-----------|
| 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. | 3.6 | 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. | 4.6 | 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. | 4.8 | 41 |
| 40 | Discovery of Cellulose Surface Layer Conformation by Nonlinear Vibrational Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 44319. | 1.6 | 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. | 3.2 | 90 |
| 42 | Dynamic changes of substrate reactivity and enzyme adsorption on partially hydrolyzed cellulose. <i>Biotechnology and Bioengineering</i> , 2017, 114, 503-515. | 1.7 | 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. | 1.1 | 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. | 3.2 | 38 |
| 46 | ZnCl ₂ induced catalytic conversion of softwood lignin to aromatics and hydrocarbons. <i>Green Chemistry</i> , 2016, 18, 2802-2810. | 4.6 | 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. | 4.8 | 42 |
| 48 | Physiochemical Characterization of Lignocellulosic Biomass Dissolution by Flowthrough Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 219-227. | 3.2 | 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. | 4.6 | 53 |
| 50 | Controlling Porosity in Lignin-Derived Nanoporous Carbon for Supercapacitor Applications. <i>ChemSusChem</i> , 2015, 8, 411-411. | 3.6 | 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. | 4.8 | 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. | 2.4 | 17 |
| 54 | Biomass-derived lignin to jet fuel range hydrocarbons via aqueous phase hydrodeoxygenation. <i>Green Chemistry</i> , 2015, 17, 5131-5135. | 4.6 | 141 |

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|----|---|-----|-----------|
| 55 | Controlling Porosity in Lignin-Derived Nanoporous Carbon for Supercapacitor Applications. <i>ChemSusChem</i> , 2015, 8, 428-432. | 3.6 | 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. | 1.7 | 70 |
| 58 | Noble-metal catalyzed hydrodeoxygenation of biomass-derived lignin to aromatic hydrocarbons. <i>Green Chemistry</i> , 2014, 16, 897. | 4.6 | 141 |
| 59 | Aqueous phase catalytic conversion of agarose to 5-hydroxymethylfurfural by metal chlorides. <i>RSC Advances</i> , 2013, 3, 24090. | 1.7 | 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. | 2.5 | 45 |
| 61 | Pathways for biomass-derived lignin to hydrocarbon fuels. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 602-626. | 1.9 | 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. | 2.9 | 54 |
| 64 | Enzymatic hydrolysis of cellulosic biomass. <i>Biofuels</i> , 2011, 2, 421-449. | 1.4 | 450 |
| 65 | Investigation of enzyme formulation on pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11072-11079. | 4.8 | 21 |
| 66 | Surface and ultrastructural characterization of raw and pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11097-11104. | 4.8 | 62 |
| 67 | Comparative material balances around pretreatment technologies for the conversion of switchgrass to soluble sugars. <i>Bioresource Technology</i> , 2011, 102, 11063-11071. | 4.8 | 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. | 4.8 | 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. | 4.8 | 93 |
| 70 | Process and technoeconomic analysis of leading pretreatment technologies for lignocellulosic ethanol production using switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11105-11114. | 4.8 | 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. | 4.8 | 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. | 4.8 | 56 |

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|----|---|------|-----------|
| 73 | Impact of surfactants on pretreatment of corn stover. <i>Bioresource Technology</i> , 2010, 101, 5941-5951. | 4.8 | 182 |
| 74 | Xylooligomers are strong inhibitors of cellulose hydrolysis by enzymes. <i>Bioresource Technology</i> , 2010, 101, 9624-9630. | 4.8 | 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. | 15.6 | 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. | 0.1 | 23 |
| 77 | Dilute Acid and Autohydrolysis Pretreatment. <i>Methods in Molecular Biology</i> , 2009, 581, 103-114. | 0.4 | 39 |
| 78 | Cellulosic biomass could help meet California's transportation fuel needs. <i>California Agriculture</i> , 2009, 63, 185-190. | 0.5 | 16 |
| 79 | Pretreatment: the key to unlocking low-cost cellulosic ethanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 26-40. | 1.9 | 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. | 4.8 | 85 |
| 81 | The promise of cellulosic ethanol production in China. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 6-10. | 1.6 | 26 |
| 82 | BSA treatment to enhance enzymatic hydrolysis of cellulose in lignin containing substrates. <i>Biotechnology and Bioengineering</i> , 2006, 94, 611-617. | 1.7 | 438 |
| 83 | Changes in the enzymatic hydrolysis rate of Avicel cellulose with conversion. <i>Biotechnology and Bioengineering</i> , 2006, 94, 1122-1128. | 1.7 | 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. | 1.7 | 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. | 1.7 | 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. | 1.4 | 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. | 1.9 | 79 |