

# Jun Wang

## List of Publications by Year in descending order

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95  
papers

1,449  
citations

361413

20  
h-index

414414

32  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1580  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Two-step in situ biodiesel production from microalgae with high free fatty acid content. <i>Bioresource Technology</i> , 2013, 136, 8-15.  | 9.6 | 124       |
| 2  | From microalgae oil to produce novel structured triacylglycerols enriched with unsaturated fatty acids. <i>Bioresource Technology</i> , 2015, 184, 405-414.  | 9.6 | 72        |
| 3  | Enzymatic modification of chitosan by cinnamic acids: Antibacterial activity against <i>Ralstonia solanacearum</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 87, 577-585.            | 7.5 | 70        |
| 4  | A novel continuous flow biosynthesis of caffeic acid phenethyl ester from alkyl caffeate and phenethanol in a packed bed microreactor. <i>Bioresource Technology</i> , 2014, 158, 39-47.                       | 9.6 | 55        |
| 5  | Moving and unsinkable graphene sheets immobilized enzyme for microfluidic biocatalysis. <i>Scientific Reports</i> , 2017, 7, 4309.   | 3.3 | 52        |
| 6  | Enhancement of the selective enzymatic biotransformation of rutin to isoquercitrin using an ionic liquid as a co-solvent. <i>Bioresource Technology</i> , 2013, 128, 156-163.                                  | 9.6 | 51        |
| 7  | A novel chemoenzymatic synthesis of propyl caffeate using lipase-catalyzed transesterification in ionic liquid. <i>Bioresource Technology</i> , 2013, 139, 337-342.  | 9.6 | 50        |
| 8  | Ionic liquid groups modified 3D porous cellulose microspheres for selective adsorption of AO7 dye. <i>Journal of Cleaner Production</i> , 2019, 240, 118201.   | 9.3 | 41        |
| 9  | Selective synthesis of human milk fat-style structured triglycerides from microalgal oil in a microfluidic reactor packed with immobilized lipase. <i>Bioresource Technology</i> , 2016, 220, 132-141.         | 9.6 | 39        |
| 10 | Rapid synthesis of propyl caffeate in ionic liquid using a packed bed enzyme microreactor under continuous-flow conditions. <i>Bioresource Technology</i> , 2013, 149, 367-374.                                | 9.6 | 37        |
| 11 | Ultrasound irradiation accelerates the lipase-catalyzed synthesis of methyl caffeate in an ionic liquid. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 111, 21-28.                                | 1.8 | 32        |
| 12 | Structured lipids enriched with unsaturated fatty acids produced by enzymatic acidolysis of silkworm pupae oil using oleic acid. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 879-889. | 1.5 | 28        |
| 13 | Selective hydrolysis by commercially available hesperidinase for isoquercitrin production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 81, 37-42.   | 1.8 | 26        |
| 14 | Discrimination and classification of tobacco wastes by identification and quantification of polyphenols with LC-MS/MS. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 875-891.                     | 0.8 | 25        |
| 15 | Enrichment process for $\gamma$ -linolenic acid from silkworm pupae oil. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 791-799.   | 1.5 | 24        |
| 16 | Improvement in catalytic activity and thermostability of a GH10 xylanase and its synergistic degradation of biomass with cellulase. <i>Biotechnology for Biofuels</i> , 2019, 12, 278.                         | 6.2 | 24        |
| 17 | Enzymatic synthesis of 1-caffeoylglycerol with deep eutectic solvent under continuous microflow conditions. <i>Biochemical Engineering Journal</i> , 2019, 142, 41-49.   | 3.6 | 24        |
| 18 | Microfluidic biocatalysis enhances the esterification of caffeic acid and methanol under continuous-flow conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 555-562.              | 3.2 | 23        |

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|----|---|-----|-----------|
| 19 | (+)-Cyclophenol, a new naturally occurring 7-membered 2,5-dioxopiperazine alkaloid from the fungus <i>Penicillium sclerotiorum</i> endogenous with the Chinese mangrove <i>Bruguiera gymnorrhiza</i> . <i>Journal of Asian Natural Products Research</i> , 2014, 16, 542-548.     | 1.4 | 21        |
| 20 | APA-style human milk fat analogue from silkworm pupae oil: Enzymatic production and improving storage stability using alkyl caffeates. <i>Scientific Reports</i> , 2015, 5, 17909.  | 3.3 | 21        |
| 21 | Alkyl Caffeates Improve the Antioxidant Activity, Antitumor Property and Oxidation Stability of Edible Oil. <i>PLoS ONE</i> , 2014, 9, e95909.  | 2.5 | 20        |
| 22 | An effective biphasic system accelerates hesperidinase-catalyzed conversion of rutin to isoquercitrin. <i>Scientific Reports</i> , 2015, 5, 8682.   | 3.3 | 20        |
| 23 | Fed-Batch Fermentation of <i>Yarrowia Lipolytica</i> Using Defatted Silkworm Pupae Hydrolysate: A Dynamic Model-Based Approach for High Yield of Lipid Production. <i>Waste and Biomass Valorization</i> , 2018, 9, 2399-2411.  | 3.4 | 18        |
| 24 | Immunoregenerative effects of the bionically cultured Sanghuang mushrooms ( <i>Inonotus sanghuang</i> ) on the immunodeficient mice. <i>Journal of Ethnopharmacology</i> , 2019, 245, 112047.   | 4.1 | 18        |
| 25 | Enhanced permeability of recombinant <i>E. coli</i> cells with deep eutectic solvent for transformation of rutin. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 384-393.  | 3.2 | 18        |
| 26 | Reactive extraction and recovery of mono-caffeoylquinic acids from tobacco wastes by trialkylphosphine oxide. <i>Chemical Engineering Science</i> , 2012, 78, 53-62.  | 3.8 | 16        |
| 27 | Loop engineering of a thermostable GH10 xylanase to improve low-temperature catalytic performance for better synergistic biomass-degrading abilities. <i>Bioresource Technology</i> , 2021, 342, 125962.  | 9.6 | 16        |
| 28 | Identification of chemosensory genes by antennal transcriptome analysis and expression profiles of odorant-binding proteins in parasitoid wasp <i>Aulacocentrum confusum</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 40, 100881. | 1.0 | 15        |
| 29 | Isoquercitrin production from rutin catalyzed by naringinase under ultrasound irradiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 186-195.   | 1.8 | 14        |
| 30 | Identification and Functional Study of Chitin Metabolism and Detoxification-Related Genes in <i>Glyphodes pyloalis</i> Walker (Lepidoptera: Pyralidae) Based on Transcriptome Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1904.                      | 4.1 | 14        |
| 31 | Microencapsulation and Antimicrobial Activity of Plant Essential Oil Against <i>Ralstonia solanacearum</i> . <i>Waste and Biomass Valorization</i> , 2020, 11, 5273-5282.   | 3.4 | 14        |
| 32 | A novel microfluidic aqueous two-phase system with immobilized enzyme enhances cyanidin-3-O-glucoside content in red pigments from mulberry fruits. <i>Biochemical Engineering Journal</i> , 2020, 158, 107556.   | 3.6 | 14        |
| 33 | Lipase-catalyzed Synthesis of Caffeic Acid Phenethyl Ester in Ionic Liquids: Effect of Specific Ions and Reaction Parameters. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 1376-1385.   | 3.5 | 13        |
| 34 | One hour enzymatic synthesis of structure lipids enriched unsaturated fatty acids from silkworm pupae oil under microwave irradiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 363-372.   | 3.2 | 13        |
| 35 | Identifications, Characteristics, and Expression Patterns of Small Heat Shock Protein Genes in a Major Mulberry Pest, <i>Glyphodes pyloalis</i> (Lepidoptera: Pyralidae). <i>Journal of Insect Science</i> , 2020, 20, .  | 1.5 | 13        |
| 36 | An alternative solution for $\hat{\pm}$ -linolenic acid supplements: <i>in vitro</i> digestive properties of silkworm pupae oil in a pH-stat system. <i>Food and Function</i> , 2021, 12, 2428-2441.  | 4.6 | 13        |

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|----|--|-----|-----------|
| 37 | Sweet-flavored peptides with biological activities from mulberry seed protein treated by multifrequency countercurrent ultrasonic technology. <i>Food Chemistry</i> , 2022, 367, 130647.   | 8.2 | 13        |
| 38 | Enhancement of Lipase-catalyzed Synthesis of Caffeic Acid Phenethyl Ester in Ionic Liquid with DMSO Co-solvent. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 1314-1321.  | 3.5 | 12        |
| 39 | The combined use of a continuous flow microchannel reactor and ionic liquid cosolvent for efficient biocatalysis of unpurified recombinant enzyme. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2671-2680.                        | 3.2 | 12        |
| 40 | The role of Glutathione-S-transferases in phoxim and chlorfenapyr tolerance in a major mulberry pest, <i>Glyphodes pyloalis walker</i> (Lepidoptera: Pyralidae). <i>Pesticide Biochemistry and Physiology</i> , 2022, 181, 105004.                       | 3.6 | 12        |
| 41 | Simultaneous Determination of Four Active Components in Tobacco Wastes by LC. <i>Chromatographia</i> , 2009, 69, 561-566.  | 1.3 | 11        |
| 42 | Identification, Characterization, and Functional Analysis of Chitin Synthase Genes in <i>Glyphodes pyloalis Walker</i> (Lepidoptera: Pyralidae). <i>International Journal of Molecular Sciences</i> , 2020, 21, 4656.                                    | 4.1 | 11        |
| 43 | Characterization and Functional Analysis of trehalase Related to Chitin Metabolism in <i>Glyphodes pyloalis Walker</i> (Lepidoptera: Pyralidae). <i>Insects</i> , 2021, 12, 370.   | 2.2 | 11        |
| 44 | Cytochrome P450s Are Essential for Insecticide Tolerance in the Endoparasitoid Wasp <i>Meteorus pulchricornis</i> (Hymenoptera: Braconidae). <i>Insects</i> , 2021, 12, 651.   | 2.2 | 11        |
| 45 | Isolation of mono-caffeoylquinic acids from tobacco waste using continuous resin-based pre-separation and preparative HPLC. <i>Journal of Separation Science</i> , 2012, 35, 1379-1387.  | 2.5 | 10        |
| 46 | A peculiar segmented flow microfluidics for isoquercitrin biosynthesis based on coupling of reaction and separation. <i>Bioresource Technology</i> , 2015, 193, 498-506.   | 9.6 | 10        |
| 47 | Inositol as a new enhancer for improving lipid production and accumulation in <i>Schizochytrium</i> sp. SR21. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35497-35508.   | 5.3 | 10        |
| 48 | Enzyme immobilized on the surface geometry pattern of groove-typed microchannel reactor enhances continuous flow catalysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2569-2579.   | 3.2 | 10        |
| 49 | A novel nanoparticle loaded with methyl caffeate and caffeic acid phenethyl ester against <i>Ralstonia solanacearum</i> a plant pathogenic bacteria. <i>RSC Advances</i> , 2020, 10, 3978-3990.  | 3.6 | 10        |
| 50 | Nutritional targeting modification of silkworm pupae oil catalyzed by a smart hydrogel immobilized lipase. <i>Food and Function</i> , 2021, 12, 6240-6253.   | 4.6 | 10        |
| 51 | UDP-glycosyltransferases contribute to the tolerance of parasitoid wasps towards insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2021, 179, 104967.   | 3.6 | 10        |
| 52 | Evaluation of Sensitivity to Phoxim and Cypermethrin in an Endoparasitoid, <i>Meteorus pulchricornis</i> (Wesmael) (Hymenoptera: Braconidae), and Its Parasitization Efficiency Under Insecticide Stress. <i>Journal of Insect Science</i> , 2021, 21, . | 1.5 | 10        |
| 53 | Pentyl (E)-3-(3,4-dihydroxyphenyl)acrylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o2871-o2871.   | 0.2 | 9         |
| 54 | Enhanced biocatalysis mechanism under microwave irradiation in isoquercitrin production revealed by circular dichroism and surface plasmon resonance spectroscopy. <i>Bioresource Technology</i> , 2016, 205, 48-57.                                     | 9.6 | 9         |

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| 55 | Identification of glutathione-S-transferase genes by transcriptome analysis in <i>Meteorus pulchricornis</i> (Hymenoptera: Braconidae) and their expression patterns under stress of phoxim and cypermethrin. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 31, 100607. | 1.0 | 9         |
| 56 | Enzyme immobilization on photopatterned temperature-responsive poly (N-isopropylacrylamide) for microfluidic biocatalysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1670-1678.  | 3.2 | 9         |
| 57 | Synthesis and characterization of structural lipids with a balanced ratio of n-6/n-3 from mulberry seed oil and $\pm$ -linolenic acid using a microfluidic enzyme reactor. <i>Food and Bioproducts Processing</i> , 2020, 120, 21-32.  | 3.6 | 9         |
| 58 | Improvement of XYL10C <sub>1</sub> catalytic performance through loop engineering for lignocellulosic biomass utilization in feed and fuel industries. <i>Biotechnology for Biofuels</i> , 2021, 14, 195.  | 6.2 | 9         |
| 59 | Cooperative Reinforcement of Ionic Liquid and Reactive Solvent on Enzymatic Synthesis of Caffeic Acid Phenethyl Ester as an In Vitro Inhibitor of Plant Pathogenic Bacteria. <i>Molecules</i> , 2017, 22, 72.  | 3.8 | 8         |
| 60 | Lipid Dynamics, Identification, and Expression Patterns of Fatty Acid Synthase Genes in an Endoparasitoid, <i>Meteorus pulchricornis</i> (Hymenoptera: Braconidae). <i>International Journal of Molecular Sciences</i> , 2020, 21, 6228.   | 4.1 | 7         |
| 61 | Enrichment and purification of red pigments from defective mulberry fruits using biotransformation in a liquid-liquid-solid three-phase system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24432-24440.   | 5.3 | 7         |
| 62 | Characteristics of Mulberry Leaf Powder Enriched With $\beta$ -Aminobutyric Acid and Its Antioxidant Capacity as a Potential Functional Food Ingredient. <i>Frontiers in Nutrition</i> , 2022, 9, .  | 3.7 | 7         |
| 63 | Ultrasound-assisted extraction ameliorates the physicochemical properties of defatted mulberry seed protein to promote lipid production in <i>Schizochytrium</i> sp. SR21. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 489-502.  | 4.6 | 6         |
| 64 | Analysis of the <i>Glyphodes pyloalis</i> larvae immune transcriptome in response to parasitization by its endoparasitoid, <i>Aulacocentrum confusum</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 38, 100803.  | 1.0 | 6         |
| 65 | W/W droplet-based microfluidic interfacial catalysis of xylanase-polymer conjugates for xylooligosaccharides production. <i>Chemical Engineering Science</i> , 2022, 248, 117110.  | 3.8 | 6         |
| 66 | Lowering energy consumption for fermentable sugar production from <i>Ramulus mori</i> : Engineered xylanase synergy and improved pretreatment strategy. <i>Bioresource Technology</i> , 2022, 344, 126368.   | 9.6 | 6         |
| 67 | Antioxidant peptides derived from mulberry seed protein by ionic liquid-enhanced microfluidic hydrolysis with immobilized protease. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4435-4447.   | 4.6 | 6         |
| 68 | Converting defatted silkworm pupae by <i>Yarrowia lipolytica</i> for enhanced lipid production. <i>European Journal of Lipid Science and Technology</i> , 2017, 119, 1600120.  | 1.5 | 5         |
| 69 | Enzymatic Synthesis and Antioxidant Activity of $\alpha$ -Caffeoylglycerol Prepared from Alkyl Caffeates and Glycerol. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2018, 95, 149-159.  | 1.9 | 5         |
| 70 | Microfluidic tools for lipid production and modification: a review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35482-35496.   | 5.3 | 5         |
| 71 | Generation of $\pm$ -Linolenic Acid Ethyl Ester Microparticles from Silkworm Pupae Oil by Microfluidic Droplet. <i>Waste and Biomass Valorization</i> , 2019, 10, 3781-3791.   | 3.4 | 5         |
| 72 | Defatted silkworm pupae hydrolysates as a nitrogen source to produce polysaccharides and flavonoids using <i>Phellinus baumii</i> . <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 527-537.   | 4.6 | 5         |

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|----|---|-----|-----------|
| 73 | Xylanase-polymer conjugates as new catalysts for xylooligosaccharides production from lignocellulose. <i>Biochemical Engineering Journal</i> , 2021, 171, 108025.   | 3.6 | 5         |
| 74 | Recombinant <i>Escherichia coli</i> BL21-pET28a-egfp Cultivated with Nanomaterials in a Modified Microchannel for Biofilm Formation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2590.   | 4.1 | 4         |
| 75 | Effect of six sugars on the longevity, oviposition performance and nutrition accumulation in an endoparasitoid, <i>Meteorus pulchricornis</i> (Hymenoptera: Braconidae). <i>Journal of Asia-Pacific Entomology</i> , 2019, 22, 263-268.                                       | 0.9 | 4         |
| 76 | Evaluation of inhibitory activities of two medicinal plant extracts <i>Parkia biglobosa</i> and <i>Lonicera japonica</i> against spoilage microorganisms isolated from mulberry fruit. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14630.                 | 2.0 | 4         |
| 77 | Characterization, and Functional Analysis of Hsp70 and Hsp90 Gene Families in <i>Glyphodes pyloalis</i> Walker (Lepidoptera: Pyralidae). <i>Frontiers in Physiology</i> , 2021, 12, 753914.   | 2.8 | 4         |
| 78 | Fatty acid synthases and desaturases are essential for the biosynthesis of $\omega$ -linolenic acid and metamorphosis in a major mulberry pest, <i>Glyphodes pyloalis</i> walker (Lepidoptera: Pyralidae). <i>Journal of Insect Science and Technology</i> , 2021, 10, 50-53. | 0.0 | 0         |
| 79 | Identification of candidate chemosensory genes by antennal transcriptome analysis in an ectoparasitoid wasp. <i>Journal of Applied Entomology</i> , 2022, 146, 335-351.   | 1.8 | 4         |
| 80 | Investigation of the kinetics and mechanism of the glycerol chlorination reaction using gas chromatography-mass spectrometry. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 101-112.   | 0.8 | 3         |
| 81 | Protein hydrolysates from silkworm ( <i>Bombyx mori</i> ) pupae protein treated with a novel neutral protease. <i>Journal of Insects As Food and Feed</i> , 2022, 8, 295-311.   | 3.9 | 3         |
| 82 | Hexyl (E)-3-(3,4-dihydroxyphenyl)acrylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o78-o78.   | 0.2 | 2         |
| 83 | Generic DART-MS platform for monitoring the on-demand continuous-flow production of pharmaceuticals: Advancing the quantitative protocol for caffeine in microfluidic biocatalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 243-251.            | 2.8 | 2         |
| 84 | Effect of Pyrola extract on the stability of palm biodiesel upon exposure to copper. <i>Renewable Energy</i> , 2020, 149, 1282-1289.  | 8.9 | 2         |
| 85 | Asn57 N-glycosylation promotes the degradation of hemicellulose by $\beta$ -1,3-glucanase from <i>Rhizopus homothallicus</i> . <i>Environmental Science and Pollution Research</i> , 2022, , 1.   | 5.3 | 2         |
| 86 | Formulation and stability of silkworm pupae oil microemulsion. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 27, 100702.  | 3.3 | 2         |
| 87 | Dual promoter strategy enhances co-expression of $\beta$ -L-rhamnosidase and enhanced fluorescent protein for whole-cell catalysis and bioresource valorization. <i>Science of the Total Environment</i> , 2020, 722, 137865.   | 8.0 | 1         |
| 88 | Flavonoid Glycoside Transformation Catalyzed by Whole-Cell Catalysts Using a PVDF Membrane Reactor Coupled with Reaction and Separation. <i>Waste and Biomass Valorization</i> , 2020, 11, 5321-5332.   | 3.4 | 1         |
| 89 | Novel Poly-(Lactic-Co-Glycolic Acid) Targeted Nanoparticles Conjoint with Antibody for the Enhancement of Antibacterial Activity against <i>Ralstonia solanacearum</i> . <i>Agronomy</i> , 2021, 11, 1159.  | 3.0 | 1         |
| 90 | Microfluidic fatty acid rearrangement in silkworm pupae oil with magnetically responsive lipase under continuous-flow condition. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 26, 100616.  | 3.3 | 1         |

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|----|--|-----|-----------|
| 91 | Kitchen Waste Oil Convert to Biodiesel via W/O Interface Biocatalysis with Thermomyces Lanuginosus Lipaseâ€“PNIPAAm Conjugates. Waste and Biomass Valorization, 2022, 13, 3945-3956. | 3.4 | 1         |
| 92 | (E)-Isopentyl 3-(3,4-dihydroxyphenyl)acrylate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o557-o557.  | 0.2 | 0         |
| 93 | Numerical Simulation of Effect of Internals on Slugging Fluidization and Analysis of Nonuniformity Index. International Journal of Chemical Reactor Engineering, 2012, 10, .         | 1.1 | 0         |
| 94 | A role of peptidoglycan recognition protein in mediating insecticide detoxification in Glyphodes pyloalis. Archives of Insect Biochemistry and Physiology, 2021, 108, e21842.        | 1.5 | 0         |
| 95 | Microfluidic preparation of a novel phoxim nanoemulsion pesticide against Spodoptera litura. Environmental Science and Pollution Research, 2022, , 1.                                | 5.3 | 0         |