

# Tao Wu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

838  
citations

19  
h-index

28  
g-index

50  
ext. papers

1,097  
ext. citations

5  
avg, IF

4.5  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 47 | Further characterization of cellulose nanocrystal (CNC) preparation from sulfuric acid hydrolysis of cotton fibers. <i>Cellulose</i> , <b>2016</b> , 23, 439-450   | 5.5 | 67        |
| 46 | Mulberry and cherry anthocyanin consumption prevents oxidative stress and inflammation in diet-induced obese mice. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 687-94   | 5.9 | 59        |
| 45 | Effects of oligomeric procyanidins on the retrogradation properties of maize starch with different amylose/amylopectin ratios. <i>Food Chemistry</i> , <b>2017</b> , 221, 2010-2017  | 8.5 | 48        |
| 44 | Black tea polyphenols and polysaccharides improve body composition, increase fecal fatty acid, and regulate fat metabolism in high-fat diet-induced obese rats. <i>Food and Function</i> , <b>2016</b> , 7, 2469-78  | 6.1 | 45        |
| 43 | Anti-obesity effects of artificial planting blueberry ( <i>Vaccinium ashei</i> ) anthocyanin in high-fat diet-treated mice. <i>International Journal of Food Sciences and Nutrition</i> , <b>2016</b> , 67, 257-64   | 3.7 | 43        |
| 42 | Blackberry and Blueberry Anthocyanin Supplementation Counteract High-Fat-Diet-Induced Obesity by Alleviating Oxidative Stress and Inflammation and Accelerating Energy Expenditure. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 4051232 | 6.7 | 37        |
| 41 | Microparticulated whey protein-pectin complex: A texture-controllable gel for low-fat mayonnaise. <i>Food Research International</i> , <b>2018</b> , 108, 151-160  | 7   | 36        |
| 40 | Soluble Dietary Fiber Fractions in Wheat Bran and Their Interactions with Wheat Gluten Have Impacts on Dough Properties. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 8735-8744   | 5.7 | 36        |
| 39 | Anthocyanins in black rice, soybean and purple corn increase fecal butyric acid and prevent liver inflammation in high fat diet-induced obese mice. <i>Food and Function</i> , <b>2017</b> , 8, 3178-3186  | 6.1 | 35        |
| 38 | Effect of superfine grinding on the structural and physicochemical properties of whey protein and applications for microparticulated proteins. <i>Food Science and Biotechnology</i> , <b>2015</b> , 24, 1637-1643   | 3   | 33        |
| 37 | Composition of <i>Lycium barbarum</i> polysaccharides and their apoptosis-inducing effect on human hepatoma SMMC-7721 cells. <i>Food and Nutrition Research</i> , <b>2015</b> , 59, 28696  | 3.1 | 32        |
| 36 | Soluble Dietary Fiber Reduces Trimethylamine Metabolism via Gut Microbiota and Co-Regulates Host AMPK Pathways. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1700473   | 5.9 | 31        |
| 35 | Using soy protein SiO <sub>x</sub> nanocomposite film coating to extend the shelf life of apple fruit. <i>International Journal of Food Science and Technology</i> , <b>2017</b> , 52, 2018-2030   | 3.8 | 30        |
| 34 | Protective effects of L-arabinose in high-carbohydrate, high-fat diet-induced metabolic syndrome in rats. <i>Food and Nutrition Research</i> , <b>2015</b> , 59, 28886   | 3.1 | 30        |
| 33 | Interactions between soluble dietary fibers and wheat gluten in dough studied by confocal laser scanning microscopy. <i>Food Research International</i> , <b>2017</b> , 95, 19-27  | 7   | 29        |
| 32 | Adsorption of fluoride on Mg/Fe layered double hydroxides material prepared via hydrothermal process. <i>RSC Advances</i> , <b>2015</b> , 5, 23246-23254   | 3.7 | 27        |
| 31 | Structural Variation and Microrheological Properties of a Homogeneous Polysaccharide from Wheat Germ. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 2977-2987  | 5.7 | 22        |

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| 30 | Entransy analysis optimization of cooling water flow distribution in a dry cooling tower of power plant under summer crosswinds. <i>Energy</i> , <b>2019</b> , 166, 1229-1240  | 7.9 | 21 |
| 29 | Aggregation and rheological behavior of soluble dietary fibers from wheat bran. <i>Food Research International</i> , <b>2017</b> , 102, 291-302  | 7   | 20 |
| 28 | Flow deflectors to release the negative defect of natural wind on large scale dry cooling tower. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 128, 248-269   | 4.9 | 19 |
| 27 | Dietary supplementation with purified wheat germ glycoprotein improve immunostimulatory activity in cyclophosphamide induced Balb/c mice. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 118, 1267-1275 | 7.9 | 16 |
| 26 | Modeling the performance of the indirect dry cooling system in a thermal power generating unit under variable ambient conditions. <i>Energy</i> , <b>2019</b> , 169, 625-636   | 7.9 | 16 |
| 25 | Cooling water mass flow optimization for indirect dry cooling system of thermal power unit under variable output load. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 133, 1-10                            | 4.9 | 15 |
| 24 | Combined Superfine Grinding and Heat-Shearing Treatment for the Microparticulation of Whey Proteins. <i>Food and Bioprocess Technology</i> , <b>2016</b> , 9, 378-386  | 5.1 | 14 |
| 23 | Anthocyanins from black wolfberry ( <i>Lycium ruthenicum</i> Murr.) prevent inflammation and increase fecal fatty acid in diet-induced obese rats. <i>RSC Advances</i> , <b>2017</b> , 7, 47848-47853                              | 3.7 | 13 |
| 22 | Supermolecule Cucurbituril Subnanoporous Carbon Supercapacitor (SCSCS). <i>Nano Letters</i> , <b>2021</b> , 21, 2156-2164  | 12  | 12 |
| 21 | Structural characterization of a novel glycoprotein in wheat germ and its physicochemical properties. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 1058-1065                                     | 7.9 | 11 |
| 20 | Succinylated Soy Protein Film Coating Extended the Shelf Life of Apple Fruit. <i>Journal of Food Processing and Preservation</i> , <b>2017</b> , 41, e13024  | 2.1 | 9  |
| 19 | Transient behavior of the cold end system in an indirect dry cooling thermal power plant under varying operating conditions. <i>Energy</i> , <b>2019</b> , 181, 1202-1212  | 7.9 | 5  |
| 18 | Effect of Extrusion, Steam Explosion and Enzymatic Hydrolysis on Functional Properties of Wheat Bran. <i>Food Science and Technology Research</i> , <b>2018</b> , 24, 591-598  | 0.8 | 5  |
| 17 | Physicochemical and Antioxidative Properties of Superfine-ground Oat Bran Polysaccharides. <i>Food Science and Technology Research</i> , <b>2016</b> , 22, 101-109   | 0.8 | 4  |
| 16 | Dietary Supplementation with Trihexanoin Enhances Intestinal Function of Weaned Piglets. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,  | 6.3 | 4  |
| 15 | Investigating the chemical constituent and the suppressive effects of alliin hydrolysate on E.coli. <i>Natural Product Research</i> , <b>2017</b> , 31, 2814-2817  | 2.3 | 2  |
| 14 | Rationally engineered Co and N co-doped WS2 as bifunctional catalysts for pH-universal hydrogen evolution and oxidative dehydrogenation reactions. <i>Nano Research</i> , 1  | 10  | 2  |
| 13 | Trilactic glyceride regulates lipid metabolism and improves gut function in piglets. <i>Frontiers in Bioscience - Landmark</i> , <b>2020</b> , 25, 1324-1336   | 2.8 | 2  |

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| 12 | Self-assembled multifunctional Fe <sub>3</sub> O <sub>4</sub> hierarchical microspheres: high-efficiency lithium-ion battery materials and hydrogenation catalysts. <i>Science China Materials</i> , <b>2021</b> , 64, 1058-1070                | 7.1 | 2 |
| 11 | Establishment of friction model and calculation of size factor in micro/meso forming processes. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 98, 3061-3069   | 3.2 | 1 |
| 10 | Flow and Heat Transfer Performances of Liquid Metal Based Microchannel Heat Sinks under High Temperature Conditions.. <i>Micromachines</i> , <b>2022</b> , 13,  | 3.3 | 1 |
| 9  | Iterative Alanine Scanning Mutagenesis Confers Aromatic Ketone Specificity and Activity of L-Amine Dehydrogenases. <i>ChemCatChem</i> , <b>2021</b> , 13, 5243  | 5.2 | 1 |
| 8  | A LabVIEW-based TDLAS methane detection system using a wavelet denoising method. <i>Microwave and Optical Technology Letters</i> ,  | 1.2 | 1 |
| 7  | Phase-Controllable Synthesis of Multifunctional 1T-MoSe <sub>2</sub> Nanostructures: Applications in Lithium-Ion Batteries, Electrocatalytic Hydrogen Evolution, and the Hydrogenation Reaction. <i>ChemElectroChem</i> , <b>2021</b> , 8, 4148 | 4.3 | 1 |
| 6  | A NDIR Mid-Infrared Methane Sensor with a Compact Pentahedron Gas-Cell. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 1 |
| 5  | Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. <i>Nano Research</i> ,1   | 10  | 0 |
| 4  | Glass transition temperature, rheological, and gelatinization properties of high amylose corn starch and waxy cassava starch blends. <i>Journal of Food Processing and Preservation</i> , <b>2020</b> , 44, e14682                              | 2.1 | 0 |
| 3  | Optimization for Circulating Cooling Water Distribution of Indirect Dry Cooling System in a Thermal Power Plant under Crosswind Condition with Evolution Strategies Algorithm. <i>Energies</i> , <b>2021</b> , 14, 1167                         | 3.1 | 0 |
| 2  | Effects of Extrusion on Physicochemical Properties of Oat Polysaccharides and Its Improvement in Flour Dough Extensibility and Gumminess. <i>Food Science and Technology Research</i> , <b>2018</b> , 24, 145-150                               | 0.8 |   |
| 1  | The novel entropy measurements of Z <sup>+</sup> -numbers and their application on multi-attribute decision making problem. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2021</b> , 40, 131-148   | 1.6 |   |