

# Yuguang Du

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

1,595  
citations

304368

22  
h-index

344852

36  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2057  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A review on the preparation of chitosan oligosaccharides and application to human health, animal husbandry and agricultural production. <i>Carbohydrate Polymers</i> , 2019, 220, 60-70.  | 5.1 | 125       |
| 2  | Chitosan oligosaccharides improve the disturbance in glucose metabolism and reverse the dysbiosis of gut microbiota in diabetic mice. <i>Carbohydrate Polymers</i> , 2018, 190, 77-86.  | 5.1 | 122       |
| 3  | Characterization of a new endo-type alginate lyase from <i>Vibrio</i> sp. W13. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 330-337.   | 3.6 | 76        |
| 4  | Chitin Oligosaccharide Modulates Gut Microbiota and Attenuates High-Fat-Diet-Induced Metabolic Syndrome in Mice. <i>Marine Drugs</i> , 2018, 16, 66.  | 2.2 | 72        |
| 5  | Enzymatic Hydrolysis of Alginate to Produce Oligosaccharides by a New Purified Endo-Type Alginate Lyase. <i>Marine Drugs</i> , 2016, 14, 108.   | 2.2 | 67        |
| 6  | Characterization of a new family 75 chitosanase from <i>Aspergillus</i> sp. W-2. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 362-369.   | 3.6 | 50        |
| 7  | Detection and differentiation of influenza viruses with glycan-functionalized gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 91, 46-52.   | 5.3 | 49        |
| 8  | Insight into carrageenases: major review of sources, category, property, purification method, structure, and applications. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1261-1276.  | 5.1 | 45        |
| 9  | The inhibition of LPS-induced inflammation in RAW264.7 macrophages via the PI3K/Akt pathway by highly N-acetylated chitooligosaccharide. <i>Carbohydrate Polymers</i> , 2017, 174, 1138-1143.   | 5.1 | 43        |
| 10 | Chitosan Oligosaccharides Improve Glucolipid Metabolism Disorder in Liver by Suppression of Obesity-Related Inflammation and Restoration of Peroxisome Proliferator-Activated Receptor Gamma (PPAR $\gamma$ ). <i>Marine Drugs</i> , 2018, 16, 455. | 2.2 | 43        |
| 11 | Exploring Effects of Chitosan Oligosaccharides on Mice Gut Microbiota in in vitro Fermentation and Animal Model. <i>Frontiers in Microbiology</i> , 2018, 9, 2388.  | 1.5 | 42        |
| 12 | N-Acetylcysteine alleviates gut dysbiosis and glucose metabolic disorder in high-fat diet-fed mice. <i>Journal of Diabetes</i> , 2019, 11, 32-45.   | 0.8 | 39        |
| 13 | Establishment and Application of Peristaltic Human Gut-Vessel Microsystem for Studying Host-Microbial Interaction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 272.   | 2.0 | 37        |
| 14 | Characterisation of a chitinase from <i>Pseudoalteromonas</i> sp. DL-6, a marine psychrophilic bacterium. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 455-462.  | 3.6 | 35        |
| 15 | Characterization of porcine milk oligosaccharides over lactation between primiparous and multiparous female pigs. <i>Scientific Reports</i> , 2018, 8, 4688.  | 1.6 | 31        |
| 16 | Enhanced immune response to inactivated porcine circovirus type 2 (PCV2) vaccine by conjugation of chitosan oligosaccharides. <i>Carbohydrate Polymers</i> , 2017, 166, 64-72.  | 5.1 | 29        |
| 17 | 3D printing of a thermosensitive hydrogel for skin tissue engineering: A proof of concept study. <i>Bioprinting</i> , 2020, 19, e00089.   | 2.9 | 29        |
| 18 | Identification of chitosan oligosaccharides binding proteins from the plasma membrane of wheat leaf cell. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 1083-1090.   | 3.6 | 28        |

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|----|--|-----|-----------|
| 19 | Extraction, Characterization, Antitumor and Immunological Activities of Hemicellulose Polysaccharide from Astragalus radix Herb Residue. <i>Molecules</i> , 2019, 24, 3644.  | 1.7 | 25        |
| 20 | Blood-Brain Barrier Permeable Chitosan Oligosaccharides Interfere with $\beta$ -Amyloid Aggregation and Alleviate $\beta$ -Amyloid Protein Mediated Neurotoxicity and Neuroinflammation in a Dose- and Degree of Polymerization-Dependent Manner. <i>Marine Drugs</i> , 2020, 18, 488. | 2.2 | 25        |
| 21 | Cloning and biochemical characterization of a novel $\beta$ -carrageenase from newly isolated marine bacterium <i>Pedobacter hainanensis</i> NJ-02. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 1331-1338.  | 3.6 | 24        |
| 22 | Investigation of absorption, metabolism and toxicity of ginsenosides compound K based on human organ chips. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119669.   | 2.6 | 24        |
| 23 | Synthesis and Evaluation of a Chitosan Oligosaccharide-Streptomycin Conjugate against <i>Pseudomonas aeruginosa</i> Biofilms. <i>Marine Drugs</i> , 2019, 17, 43.  | 2.2 | 23        |
| 24 | Exploring Effects of Chitosan Oligosaccharides on the DSS-Induced Intestinal Barrier Impairment In Vitro and In Vivo. <i>Molecules</i> , 2021, 26, 2199.   | 1.7 | 23        |
| 25 | Detecting SARS-CoV-2 in the Breath of COVID-19 Patients. <i>Frontiers in Medicine</i> , 2021, 8, 604392.   | 1.2 | 22        |
| 26 | Cellulosimicrobium cellulans strain E4-5 enzymatic hydrolysis of curdlan for production of (1 $\rightarrow$ 3)- $\beta$ -D-Galactosyl-2- $\beta$ -D-Galactopyranosyl-1- $\beta$ -D-Galactopyranoside. <i>Overlook</i> , 2021, 10, 504.   | 3.1 | 21        |
| 27 | Characterization of a cold-adapted and salt-tolerant exo-chitinase (ChiC) from <i>Pseudoalteromonas</i> sp. DL-6. <i>Extremophiles</i> , 2016, 20, 167-176.  | 0.9 | 21        |
| 28 | Inhibition of Liver Tumor Cell Metastasis by Partially Acetylated Chitosan Oligosaccharide on A Tumor-Vessel Microsystem. <i>Marine Drugs</i> , 2019, 17, 415.   | 2.2 | 21        |
| 29 | Screening and structure study of active components of Astragalus polysaccharide for injection based on different molecular weights. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1152, 122255.                              | 1.2 | 20        |
| 30 | Chitosan oligosaccharide inhibits EGF-induced cell growth possibly through blockade of epidermal growth factor receptor/mitogen-activated protein kinase pathway. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 502-505.                                       | 3.6 | 17        |
| 31 | Conjugation of chitosan oligosaccharides enhances immune response to porcine circovirus vaccine by activating macrophages. <i>Immunobiology</i> , 2018, 223, 663-670.  | 0.8 | 17        |
| 32 | The Positive Correlation of the Enhanced Immune Response to PCV2 Subunit Vaccine by Conjugation of Chitosan Oligosaccharide with the Deacetylation Degree. <i>Marine Drugs</i> , 2017, 15, 236.  | 2.2 | 16        |
| 33 | Enhanced multi-lineage differentiation of human mesenchymal stem/stromal cells within poly( <i>N</i> -isopropylacrylamide-acrylic acid) microgel-formed three-dimensional constructs. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1799-1814.                                    | 2.9 | 16        |
| 34 | Fabrication of a Cartilage Patch by Fusing Hydrogel-Derived Cell Aggregates onto Electrospun Film. <i>Tissue Engineering - Part A</i> , 2020, 26, 863-871.   | 1.6 | 16        |
| 35 | Chemiluminescence diminishment on a paper-based analytical device: high throughput determination of $\beta$ -agonists in swine hair. <i>Analytical Methods</i> , 2014, 6, 9684-9690.   | 1.3 | 15        |
| 36 | Annotation of porcine milk oligosaccharides throughout lactation by hydrophilic interaction chromatography coupled with quadruple time of flight tandem mass spectrometry. <i>Electrophoresis</i> , 2016, 37, 1525-1531.   | 1.3 | 15        |

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|----|---|-----|-----------|
| 37 | A multiplex microfluidic loop-mediated isothermal amplification array for detection of malaria-related parasites and vectors. <i>Acta Tropica</i> , 2018, 178, 86-92.   | 0.9 | 15        |
| 38 | Enteromorpha prolifera oligomers relieve pancreatic injury in streptozotocin (STZ)-induced diabetic mice. <i>Carbohydrate Polymers</i> , 2019, 206, 403-411.  | 5.1 | 15        |
| 39 | Competitive annealing mediated isothermal amplification of nucleic acids. <i>Analyst, The</i> , 2018, 143, 639-642.   | 1.7 | 14        |
| 40 | Antrodia cinnamomea Oligosaccharides Suppress Lipopolysaccharide-Induced Inflammation through Promoting O-GlcNAcylation and Repressing p38/Akt Phosphorylation. <i>Molecules</i> , 2018, 23, 51.                          | 1.7 | 13        |
| 41 | Maternal chitosan oligosaccharide intervention optimizes the production performance and health status of gilts and their offspring. <i>Animal Nutrition</i> , 2020, 6, 134-142.   | 2.1 | 12        |
| 42 | High molecular weight chitosan oligosaccharide exhibited antifungal activity by misleading cell wall organization via targeting PHR transglucosidases. <i>Carbohydrate Polymers</i> , 2022, 285, 119253.                  | 5.1 | 12        |
| 43 | Chitosan oligosaccharides inhibit epithelial cell migration through blockade of N-acetylglucosaminyltransferase V and branched GlcNAc structure. <i>Carbohydrate Polymers</i> , 2017, 170, 241-246.                       | 5.1 | 11        |
| 44 | Specific N-glycan alterations are coupled in EMT induced by different density cultivation of MCF 10A epithelial cells. <i>Glycoconjugate Journal</i> , 2017, 34, 219-227.   | 1.4 | 11        |
| 45 | Competitive annealing mediated isothermal amplification (CAMP) for rapid and simple detection of <i>Listeria monocytogenes</i> in milk. <i>Food Control</i> , 2020, 117, 107347.  | 2.8 | 11        |
| 46 | Chondrogenic preconditioning of mesenchymal stem/stromal cells within a magnetic scaffold for osteochondral repair. <i>Biofabrication</i> , 2022, 14, 025020.   | 3.7 | 11        |
| 47 | Chitosan Oligosaccharides Regulate the Occurrence and Development of Enteritis in a Human Gut-On-a-Chip. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 877892.   | 1.8 | 11        |
| 48 | Allogeneic primary mesenchymal stem/stromal cell aggregates within poly(N-isopropylacrylamide-co-acrylic acid) hydrogel for osteochondral regeneration. <i>Applied Materials Today</i> , 2020, 18, 100487.                | 2.3 | 10        |
| 49 | Expression and Biochemical Characterization of a Novel Marine Chitosanase from <i>Streptomyces niveus</i> Suitable for Preparation of Chitobiose. <i>Marine Drugs</i> , 2021, 19, 300.                                    | 2.2 | 10        |
| 50 | Hydrogel-based preparation of cell aggregates for biomedical applications. <i>Applied Materials Today</i> , 2020, 20, 100747.   | 2.3 | 9         |
| 51 | Molecular shape and immunogenicity of meningococcal polysaccharide group A conjugate vaccine. <i>Vaccine</i> , 2015, 33, 5815-5821.   | 1.7 | 8         |
| 52 | Chitosan Oligosaccharides Coupling Inhibits Bacterial Biofilm-Related Antibiotic Resistance against Florfenicol. <i>Molecules</i> , 2020, 25, 6043.   | 1.7 | 8         |
| 53 | (1 $\alpha$ '3)- $\beta$ -d -Glucan oligosaccharides monomers purification and its H <sub>2</sub> O <sub>2</sub> induction effect study. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 1069-1073. | 3.6 | 7         |
| 54 | Rapid and simple detection of <i>Bacillus cereus</i> in milk by real-time competitive annealing mediated isothermal amplification. <i>Analyst, The</i> , 2020, 145, 6677-6682.  | 1.7 | 7         |

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|----|--|-----|-----------|
| 55 | Glucosamine Ameliorates Symptoms of High-Fat Diet-Fed Mice by Reversing Imbalanced Gut Microbiota. <i>Frontiers in Pharmacology</i> , 2021, 12, 694107.  | 1.6 | 7         |
| 56 | Low deacetylation degree chitosan oligosaccharide protects against IL-1 $\beta$ induced inflammation and enhances autophagy activity in human chondrocytes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022, 33, 517-531. | 1.9 | 7         |
| 57 | Rational design of <i>Pleurotus eryngii</i> versatile ligninolytic peroxidase for enhanced pH and thermal stability through structure-based protein engineering. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 743-751.   | 1.0 | 6         |
| 58 | Effect of dietary chitosan oligosaccharide supplementation on the pig ovary transcriptome. <i>RSC Advances</i> , 2018, 8, 13266-13273.   | 1.7 | 6         |
| 59 | Overexpression and Biochemical Characterization of an Endo- $\beta$ -1,4-polygalacturonase from <i>Aspergillus nidulans</i> in <i>Pichia pastoris</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 2100.             | 1.8 | 6         |
| 60 | Overexpression and biochemical characterization of a truncated endo- $\beta$ -(1 $\rightarrow$ 3)-fucoidanase from <i>Alteromonas</i> sp. SN-1009. <i>Food Chemistry</i> , 2021, 353, 129460.  | 4.2 | 6         |
| 61 | Potential of Using Cell-Free DNA and miRNA in Breast Milk to Screen Early Breast Cancer. <i>BioMed Research International</i> , 2020, 2020, 1-11.  | 0.9 | 5         |
| 62 | Novel Insights Into the Sulfated Glucuronic Acid-Based Anti-SARS-CoV-2 Mechanism of Exopolysaccharides From Halophilic Archaeon <i>Haloarcula hispanica</i> . <i>Frontiers in Chemistry</i> , 2022, 10, 871509.                          | 1.8 | 5         |
| 63 | Insight into the impact of two structural calcium ions on the properties of <i>Pleurotus eryngii</i> versatile ligninolytic peroxidase. <i>Archives of Biochemistry and Biophysics</i> , 2016, 612, 9-16.                                | 1.4 | 4         |
| 64 | Specific <i>N</i> -glycan alterations are coupled in epithelial $\rightarrow$ mesenchymal transition induced by EGF in GE11 epithelial cells. <i>Cell Biology International</i> , 2017, 41, 124-133.                                     | 1.4 | 4         |
| 65 | Overexpression and biochemical characterization of a recombinant psychrophilic endocellulase from <i>Pseudoalteromonas</i> sp. DY3. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 100-105.                      | 3.6 | 4         |
| 66 | Heterologous expression and biochemical characterization of a GH9 endoglucanase from the termite <i>Reticulitermes speratus</i> in <i>Pichia pastoris</i> . <i>BMC Biotechnology</i> , 2018, 18, 35.                                     | 1.7 | 4         |
| 67 | Conjugation of chitosan oligosaccharides via a carrier protein markedly improves immunogenicity of porcine circovirus vaccine. <i>Glycoconjugate Journal</i> , 2018, 35, 451-459.  | 1.4 | 4         |
| 68 | Liquid-Phase and Ultrahigh-Frequency-Acoustofluidics-Based Solid-Phase Synthesis of Biotin-Tagged 6 $\rightarrow$ 3-Sialyl-N-Acetylglucosamine by Sequential One-Pot Multienzyme System. <i>Catalysts</i> , 2020, 10, 1347.              | 1.6 | 3         |
| 69 | Protein Engineering of <i>Pasteurella multocida</i> $\beta$ -2,3-Sialyltransferase with Reduced $\beta$ -2,3-Sialidase Activity and Application in Synthesis of 3 $\rightarrow$ -Sialyllactose. <i>Catalysts</i> , 2022, 12, 579.        | 1.6 | 1         |