

Daxiong Fu

List of Publications by Year in descending order

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34
papers

3,093
citations

279798

23
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

2930
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Structure of a Glycerol-Conducting Channel and the Basis for Its Selectivity. <i>Science</i> , 2000, 290, 481-486. | 12.6 | 938 |
| 2 | Structure of the Zinc Transporter YiiP. <i>Science</i> , 2007, 317, 1746-1748. | 12.6 | 355 |
| 3 | Structural basis for autoregulation of the zinc transporter YiiP. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1063-1067. | 8.2 | 227 |
| 4 | Kinetic Study of the Antiport Mechanism of an Escherichia coli Zinc Transporter, ZitB. <i>Journal of Biological Chemistry</i> , 2004, 279, 12043-12050. | 3.4 | 143 |
| 5 | Zinc transporters and their functional integration in mammalian cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100320. | 3.4 | 125 |
| 6 | Histidine pairing at the metal transport site of mammalian ZnT transporters controls Zn ²⁺ over Cd ²⁺ selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7202-7207. | 7.1 | 117 |
| 7 | Thermodynamic Studies of the Mechanism of Metal Binding to the Escherichia coli Zinc Transporter YiiP. <i>Journal of Biological Chemistry</i> , 2004, 279, 17173-17180. | 3.4 | 104 |
| 8 | Crystal Structure of AqpZ Tetramer Reveals Two Distinct Arg-189 Conformations Associated with Water Permeation through the Narrowest Constriction of the Water-conducting Channel. <i>Journal of Biological Chemistry</i> , 2006, 281, 454-460. | 3.4 | 101 |
| 9 | Selective Electrodifusion of Zinc Ions in a Zrt-, Irt-like Protein, ZIPB*. <i>Journal of Biological Chemistry</i> , 2010, 285, 39013-39020. | 3.4 | 99 |
| 10 | Selective Metal Binding to a Membrane-embedded Aspartate in the Escherichia coli Metal Transporter YiiP (FieF). <i>Journal of Biological Chemistry</i> , 2005, 280, 33716-33724. | 3.4 | 96 |
| 11 | Visualizing the kinetic power stroke that drives proton-coupled zinc(ii) transport. <i>Nature</i> , 2014, 512, 101-104. | 27.8 | 91 |
| 12 | The structural basis of water permeation and proton exclusion in aquaporins (Review). <i>Molecular Membrane Biology</i> , 2007, 24, 366-374. | 2.0 | 90 |
| 13 | Binding and Transport of Metal Ions at the Dimer Interface of the Escherichia coli Metal Transporter YiiP. <i>Journal of Biological Chemistry</i> , 2006, 281, 23492-23502. | 3.4 | 76 |
| 14 | Lipid-tuned Zinc Transport Activity of Human ZnT8 Protein Correlates with Risk for Type-2 Diabetes. <i>Journal of Biological Chemistry</i> , 2016, 291, 26950-26957. | 3.4 | 64 |
| 15 | Oligomeric State of the Escherichia coli Metal Transporter YiiP. <i>Journal of Biological Chemistry</i> , 2004, 279, 39251-39259. | 3.4 | 58 |
| 16 | Atomic structure of a glycerol channel and implications for substrate permeation in aqua(glycero)porins. <i>FEBS Letters</i> , 2001, 504, 112-117. | 2.8 | 37 |
| 17 | Intact Functional Fourteen-subunit Respiratory Membrane-bound [NiFe]-Hydrogenase Complex of the Hyperthermophilic Archaeon Pyrococcus furiosus. <i>Journal of Biological Chemistry</i> , 2014, 289, 19364-19372. | 3.4 | 37 |
| 18 | Structure-Function Relationships in OxlT, the Oxalate/Formate Transporter of Oxalobacter formigenes. <i>Journal of Biological Chemistry</i> , 1998, 273, 17962-17967. | 3.4 | 32 |

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|----|---|-----|-----------|
| 19 | Evaluation of Secondary Structure of OxIT, the Oxalate Transporter of Oxalobacter formigenes, by Circular Dichroism Spectroscopy. <i>Journal of Biological Chemistry</i> , 1997, 272, 2129-2135. | 3.4 | 31 |
| 20 | Proteoliposome-based full-length ZnT8 self-antigen for type 1 diabetes diagnosis on a plasmonic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10196-10201. | 7.1 | 31 |
| 21 | Coupling of Insulin Secretion and Display of a Granule-resident Zinc Transporter ZnT8 on the Surface of Pancreatic Beta Cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 4034-4043. | 3.4 | 29 |
| 22 | Asymmetric Contribution of the Conserved Disulfide Loop to Subunit Oligomerization and Assembly of the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 1996, 271, 31479-31484. | 3.4 | 27 |
| 23 | Structure/Function Relationships in OxIT, the Oxalate-Formate Transporter of Oxalobacter formigenes. <i>Journal of Biological Chemistry</i> , 2001, 276, 8753-8760. | 3.4 | 25 |
| 24 | The PP-motif in luminal loop 2 of ZnT transporters plays a pivotal role in TNAP activation. <i>Biochemical Journal</i> , 2016, 473, 2611-2621. | 3.7 | 23 |
| 25 | Induction of the metal transporter ZIP8 by interferon gamma in intestinal epithelial cells: Potential role of metal dyshomeostasis in Crohn's disease. <i>Biochemical and Biophysical Research Communications</i> , 2019, 515, 325-331. | 2.1 | 19 |
| 26 | Metalloproteomics: challenges and prospective for clinical research applications. <i>Expert Review of Proteomics</i> , 2014, 11, 13-19. | 3.0 | 17 |
| 27 | A subclass of serum anti-ZnT8 antibodies directed to the surface of live pancreatic β -cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 579-587. | 3.4 | 16 |
| 28 | Water molecules mediate zinc mobility in the bacterial zinc diffusion channel ZIPB. <i>Journal of Biological Chemistry</i> , 2019, 294, 13327-13335. | 3.4 | 16 |
| 29 | Down-regulation of the islet-specific zinc transporter-8 (ZnT8) protects human insulinoma cells against inflammatory stress. <i>Journal of Biological Chemistry</i> , 2019, 294, 16992-17006. | 3.4 | 16 |
| 30 | The Structure of GlpF, A Glycerol Conducting Channel. <i>Novartis Foundation Symposium</i> , 2008, , 51-65. | 1.1 | 14 |
| 31 | Highly specific monoclonal antibodies for allosteric inhibition and immunodetection of the human pancreatic zinc transporter ZnT8. <i>Journal of Biological Chemistry</i> , 2018, 293, 16206-16216. | 3.4 | 11 |
| 32 | Novel autoantibodies to the β -cell surface epitopes of ZnT8 in patients progressing to type-1 diabetes. <i>Journal of Autoimmunity</i> , 2021, 122, 102677. | 6.5 | 11 |
| 33 | Crystallization and preliminary crystallographic analysis of the Escherichia coli water channel AqpZ. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 561-563. | 2.5 | 7 |
| 34 | The structure of GlpF, a glycerol conducting channel. <i>Novartis Foundation Symposium</i> , 2002, 245, 51-61; discussion 61-5, 165-8. | 1.1 | 5 |