

# Susana L A Andrade

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

4,443  
citations

236925

25  
h-index

223800

46  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3960  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The CopA2-Type P1B-Type ATPase CcoI Serves as Central Hub for cbb3-Type Cytochrome Oxidase Biogenesis. <i>Frontiers in Microbiology</i> , 2021, 12, 712465.   | 3.5  | 2         |
| 2  | 8. The Cofactors of Nitrogenases. , 2020, 20, 257-312.  |      | 0         |
| 3  | Signaling ammonium across membranes through an ammonium sensor histidine kinase. <i>Nature Communications</i> , 2018, 9, 164.   | 12.8 | 36        |
| 4  | A bound reaction intermediate sheds light on the mechanism of nitrogenase. <i>Science</i> , 2018, 359, 1484-1489.   | 12.6 | 245       |
| 5  | The Critical E <sub>4</sub> State of Nitrogenase Catalysis. <i>Biochemistry</i> , 2018, 57, 5497-5504.  | 2.5  | 65        |
| 6  | The flavinyl transferase ApbE of <i>Pseudomonas stutzeri</i> matures the NosR protein required for nitrous oxide reduction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 95-102.  | 1.0  | 39        |
| 7  | Production and isolation of vanadium nitrogenase from <i>Azotobacter vinelandii</i> by molybdenum depletion. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 161-168.  | 2.6  | 34        |
| 8  | Secondary Structure Determination by Means of ATR-FTIR Spectroscopy. <i>Methods in Molecular Biology</i> , 2017, 1635, 195-203.   | 0.9  | 20        |
| 9  | 8. The iron-molybdenum cofactor of nitrogenase. , 2017, , 205-222.  |      | 1         |
| 10 | Nitrogenase FeMoco investigated by spatially resolved anomalous dispersion refinement. <i>Nature Communications</i> , 2016, 7, 10902.   | 12.8 | 131       |
| 11 | Structural and Functional Studies of NirC from <i>Salmonella typhimurium</i> . <i>Methods in Enzymology</i> , 2015, 556, 475-497.   | 1.0  | 5         |
| 12 | Active sites without restraints: high-resolution analysis of metal cofactors. <i>Current Opinion in Structural Biology</i> , 2015, 35, 32-40.   | 5.7  | 8         |
| 13 | 6. The iron-molybdenum cofactor of nitrogenase. , 2014, , 89-106.   |      | 1         |
| 14 | Asymmetric Stetter reactions catalyzed by thiamine diphosphate-dependent enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9681-9690.  | 3.6  | 20        |
| 15 | Extended Reaction Scope of Thiamine Diphosphate Dependent Cyclohexane-1,2-dione Hydrolase: From C <sub>1</sub> –C Bond Cleavage to C <sub>1</sub> –C Bond Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14402-14406. | 13.8 | 11        |
| 16 | Insights into the Bioactivity of Mensacarcin and Epoxide Formation by MsnO8. <i>ChemBioChem</i> , 2014, 15, 749-756.  | 2.6  | 16        |
| 17 | Catalytic Scope of the Thiamine-Dependent Multifunctional Enzyme Cyclohexane-1,2-dione Hydrolase. <i>ChemBioChem</i> , 2014, 15, 389-392.   | 2.6  | 10        |
| 18 | Direct observation of electrogenic NH <sub>4</sub> <sup>+</sup> transport in ammonium transport (Amt) proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9995-10000.               | 7.1  | 58        |

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|----|--|------|-----------|
| 19 | The Tricky Task of Nitrate/Nitrite Antiport. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10422-10424.   | 13.8 | 6         |
| 20 | The Sixteenth Iron in the Nitrogenase MoFe Protein. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10529-10532.  | 13.8 | 28        |
| 21 | Î±-Hydroxy-Î²-keto acid rearrangementâ€™ decarboxylation: impact on thiamine diphosphate-dependent enzymatic transformations. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 252-256.                                 | 2.8  | 24        |
| 22 | The formate/nitrite transporter family of anion channels. <i>Biological Chemistry</i> , 2013, 394, 715-727.  | 2.5  | 62        |
| 23 | Analysis of the Magnetic Properties of Nitrogenase FeMo Cofactor by Singleâ€™Crystal EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10116-10119.   | 13.8 | 23        |
| 24 | Fluorescent sensors reporting the activity of ammonium transporters in live cells. <i>ELife</i> , 2013, 2, e00800.   | 6.0  | 53        |
| 25 | The formate channel FocA exports the products of mixed-acid fermentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13254-13259.                                   | 7.1  | 76        |
| 26 | Structural and functional characterization of the nitrite channel NirC from <i>Salmonella typhimurium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18395-18400. | 7.1  | 57        |
| 27 | Thermodynamics of Transport Through the Ammonium Transporter Amt-1 Investigated with Free Energy Calculations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9690-9703.  | 2.6  | 24        |
| 28 | pH-Dependent Gating in a FocA Formate Channel. <i>Science</i> , 2011, 332, 352-354.  | 12.6 | 86        |
| 29 | Mechanism of Disruption of the Amt-GlnK Complex by PII-Mediated Sensing of 2-Oxoglutarate. <i>PLoS ONE</i> , 2011, 6, e26327.  | 2.5  | 30        |
| 30 | Evidence for Interstitial Carbon in Nitrogenase FeMo Cofactor. <i>Science</i> , 2011, 334, 940-940.  | 12.6 | 774       |
| 31 | Structure of GlnK1, a signalling protein from <i>Archaeoglobus fulgidus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 178-181.  | 0.7  | 6         |
| 32 | Cooperative Binding of MgATP and MgADP in the Trimeric PII Protein GlnK2 from <i>Archaeoglobus fulgidus</i> . <i>Journal of Molecular Biology</i> , 2010, 402, 165-177.  | 4.2  | 26        |
| 33 | Pore Mutations in Ammonium Transporter AMT1 with Increased Electrogenic Ammonium Transport Activity. <i>Journal of Biological Chemistry</i> , 2009, 284, 24988-24995.  | 3.4  | 56        |
| 34 | Isolation and characterization of a new Cuâ€™Fe protein from <i>Desulfovibrio aminophilus</i> DSM12254. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1314-1322.   | 3.5  | 3         |
| 35 | Crystal Structure of the NADH:Quinone Oxidoreductase WrbA from <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2007, 189, 9101-9107.  | 2.2  | 41        |
| 36 | Assignment of Individual Metal Redox States in a Metalloprotein by Crystallographic Refinement at Multiple X-ray Wavelengths. <i>Journal of the American Chemical Society</i> , 2007, 129, 2210-2211.                        | 13.7 | 47        |

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|----|--|------|-----------|
| 37 | The Amt/Mep/Rh family of ammonium transport proteins (Review). <i>Molecular Membrane Biology</i> , 2007, 24, 357-365.  | 2.0  | 100       |
| 38 | Expression, purification and crystallization of the ammonium transporter Amt-1 from <i>Archaeoglobus fulgidus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 861-863.                        | 0.7  | 11        |
| 39 | Crystal structure of the archaeal ammonium transporter Amt-1 from <i>Archaeoglobus fulgidus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14994-14999.                         | 7.1  | 201       |
| 40 | Structures of the Iron-Sulfur Flavoproteins from <i>Methanosarcina thermophila</i> and <i>Archaeoglobus fulgidus</i> . <i>Journal of Bacteriology</i> , 2005, 187, 3848-3854.  | 2.2  | 16        |
| 41 | Structural basis of biological nitrogen fixation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 971-984.   | 3.4  | 852       |
| 42 | Kinetic behavior of <i>Desulfovibrio gigas</i> aldehyde oxidoreductase encapsulated in reverse micelles. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 73-78.  | 2.1  | 15        |
| 43 | High Resolution Crystal Structures of the Wild Type and Cys-55 → Ser and Cys-59 → Ser Variants of the Thioredoxin-like [2Fe-2S] Ferredoxin from <i>Aquifex aeolicus</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 34499-34507. | 3.4  | 31        |
| 44 | Nitrogenase MoFe-Protein at 1.16 Å Resolution: A Central Ligand in the FeMo-Cofactor. <i>Science</i> , 2002, 297, 1696-1700.   | 12.6 | 1,041     |
| 45 | Aldehyde oxidoreductase activity in <i>Desulfovibrio alaskensis</i> NCIMB 13491. <i>FEBS Journal</i> , 2000, 267, 2054-2061.   | 0.2  | 30        |
| 46 | Encapsulation of Flavodoxin in Reverse Micelles. <i>Biochemical and Biophysical Research Communications</i> , 1997, 234, 651-654.  | 2.1  | 10        |