

Susana L A Andrade

List of Publications by Year in descending order

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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	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
2	Structural basis of biological nitrogen fixation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 971-984.	3.4	852
3	Evidence for Interstitial Carbon in Nitrogenase FeMo Cofactor. <i>Science</i> , 2011, 334, 940-940.	12.6	774
4	A bound reaction intermediate sheds light on the mechanism of nitrogenase. <i>Science</i> , 2018, 359, 1484-1489.	12.6	245
5	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
6	Nitrogenase FeMoco investigated by spatially resolved anomalous dispersion refinement. <i>Nature Communications</i> , 2016, 7, 10902.	12.8	131
7	The Amt/Mep/Rh family of ammonium transport proteins (Review). <i>Molecular Membrane Biology</i> , 2007, 24, 357-365.	2.0	100
8	pH-Dependent Gating in a FocA Formate Channel. <i>Science</i> , 2011, 332, 352-354.	12.6	86
9	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
10	The Critical E ₄ State of Nitrogenase Catalysis. <i>Biochemistry</i> , 2018, 57, 5497-5504.	2.5	65
11	The formate/nitrite transporter family of anion channels. <i>Biological Chemistry</i> , 2013, 394, 715-727.	2.5	62
12	Direct observation of electrogenic NH ₄ ⁺ 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
13	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
14	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
15	Fluorescent sensors reporting the activity of ammonium transporters in live cells. <i>eLife</i> , 2013, 2, e00800.	6.0	53
16	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
17	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
18	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

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19	Signaling ammonium across membranes through an ammonium sensor histidine kinase. <i>Nature Communications</i> , 2018, 9, 164.	12.8	36
20	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
21	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
22	Aldehyde oxidoreductase activity in <i>Desulfovibrio alaskensis</i> NCIMB 13491. <i>FEBS Journal</i> , 2000, 267, 2054-2061.	0.2	30
23	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
24	The Sixteenth Iron in the Nitrogenase MoFe Protein. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10529-10532.	13.8	28
25	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
26	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
27	α-Hydroxy-β-keto acid rearrangement → decarboxylation: impact on thiamine diphosphate-dependent enzymatic transformations. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 252-256.	2.8	24
28	Analysis of the Magnetic Properties of Nitrogenase FeMo Cofactor by Single-Crystal EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10116-10119.	13.8	23
29	Asymmetric Stetter reactions catalyzed by thiamine diphosphate-dependent enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9681-9690.	3.6	20
30	Secondary Structure Determination by Means of ATR-FTIR Spectroscopy. <i>Methods in Molecular Biology</i> , 2017, 1635, 195-203.	0.9	20
31	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
32	Insights into the Bioactivity of Mensacarcin and Epoxide Formation by MsnO8. <i>ChemBioChem</i> , 2014, 15, 749-756.	2.6	16
33	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
34	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
35	Extended Reaction Scope of Thiamine Diphosphate Dependent Cyclohexane-1,2-dione Hydrolase: From C-C Bond Cleavage to C-C Bond Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14402-14406.	13.8	11
36	Encapsulation of Flavodoxin in Reverse Micelles. <i>Biochemical and Biophysical Research Communications</i> , 1997, 234, 651-654.	2.1	10

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37	Catalytic Scope of the Thiamine-Dependent Multifunctional Enzyme Cyclohexane-1,2-dione Hydrolase. <i>ChemBioChem</i> , 2014, 15, 389-392.	2.6	10
38	Active sites without restraints: high-resolution analysis of metal cofactors. <i>Current Opinion in Structural Biology</i> , 2015, 35, 32-40.	5.7	8
39	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
40	The Tricky Task of Nitrate/Nitrite Antiport. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10422-10424.	13.8	6
41	Structural and Functional Studies of NirC from <i>Salmonella typhimurium</i> . <i>Methods in Enzymology</i> , 2015, 556, 475-497.	1.0	5
42	Isolation and characterization of a new Cu-Fe protein from <i>Desulfovibrio aminophilus</i> DSM12254. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1314-1322.	3.5	3
43	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
44	6. The iron-molybdenum cofactor of nitrogenase. , 2014, , 89-106.		1
45	8. The iron-molybdenum cofactor of nitrogenase. , 2017, , 205-222.		1
46	8. The Cofactors of Nitrogenases. , 2020, 20, 257-312.		0