

# Heinrich Jung

## List of Publications by Year in descending order

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64  
papers

3,441  
citations

159585

30  
h-index

138484

58  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2506  
citing authors

#	ARTICLE	IF	CITATIONS
1	DeerAnalysis2006â€”a comprehensive software package for analyzing pulsed ELDOR data. Applied Magnetic Resonance, 2006, 30, 473-498.	1.2	941
2	Use of site-directed fluorescence labeling to study proximity relationships in the lactose permease of Escherichia coli. Biochemistry, 1993, 32, 12273-12278.	2.5	146
3	Assessing Oligomerization of Membrane Proteins by Four-Pulse DEER: pH-Dependent Dimerization of NhaA Na <sup>+</sup> /H <sup>+</sup> Antiporter of E. coli. Biophysical Journal, 2005, 89, 1328-1338.	0.5	133
4	Properties and purification of an active biotinylated lactose permease from Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 6934-6938.	7.1	122
5	Purification and Reconstitution of an Osmosensor:â€” Transporter ProP of <i>Escherichia coli</i> Senses and Responds to Osmotic Shifts. Biochemistry, 1999, 38, 1676-1684.	2.5	120
6	Osmosensor and Osmoregulator Properties of the Betaine Carrier BetP from Corynebacterium glutamicum in Proteoliposomes. Journal of Biological Chemistry, 2000, 275, 735-741.	3.4	107
7	High-Resolution Structure of a Na <sup>+</sup> /H <sup>+</sup> Antiporter Dimer Obtained by Pulsed Electron Paramagnetic Resonance Distance Measurements. Biophysical Journal, 2007, 93, 3675-3683.	0.5	101
8	The sodium/substrate symporter family: structural and functional features. FEBS Letters, 2002, 529, 73-77.	2.8	90
9	Initial Steps of Photosystem II de Novo Assembly and Preloading with Manganese Take Place in Biogenesis Centers in <i>Synechocystis</i> . Plant Cell, 2012, 24, 660-675.	6.6	86
10	Interresidual Distance Determination by Four-Pulse Double Electron-Electron Resonance in an Integral Membrane Protein: The Na <sup>+</sup> /Proline Transporter PutP of Escherichia coli. Biophysical Journal, 2004, 86, 2551-2557.	0.5	81
11	Cysteine 148 in the Lactose Permease of Escherichia coli Is a Component of a Substrate Binding Site. 1. Site-Directed Mutagenesis Studies. Biochemistry, 1994, 33, 12160-12165.	2.5	77
12	Dynamics of Lactose Permease of Escherichia coli Determined by Site-Directed Fluorescence Labeling. Biochemistry, 1994, 33, 3980-3985.	2.5	77
13	Unidirectional Reconstitution and Characterization of Purified Na <sup>+</sup> /Proline Transporter of Escherichia coli. Biochemistry, 1998, 37, 11083-11088.	2.5	77
14	Role of glycine residues in the structure and function of lactose permease, an Escherichia coli membrane transport protein. Biochemistry, 1995, 34, 1030-1039.	2.5	58
15	Topology of the Na <sup>+</sup> /Proline Transporter of Escherichia coli. Journal of Biological Chemistry, 1998, 273, 26400-26407.	3.4	58
16	Towards the molecular mechanism of Na <sup>+</sup> /solute symport in prokaryotes. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1505, 131-143.	1.0	50
17	Purification and properties of carnitine dehydratase from Escherichia coli â€” a new enzyme of carnitine metabolism. Lipids and Lipid Metabolism, 1989, 1003, 270-276.	2.6	46
18	What's new with lactose permease. Journal of Bioenergetics and Biomembranes, 1993, 25, 627-636.	2.3	46

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19	The lactose permease meets Frankenstein. <i>Journal of Experimental Biology</i> , 1994, 196, 183-95.	1.7	45
20	Aspartate 55 in the Na <sup>+</sup> /Proline Permease of <i>Escherichia coli</i> Essential for Na <sup>+</sup> -Coupled Proline Uptake. <i>Biochemistry</i> , 1997, 36, 4631-4636.	2.5	44
21	A Conserved Aspartate Residue, Asp187, Is Important for Na <sup>+</sup> -Dependent Proline Binding and Transport by the Na <sup>+</sup> /Proline Transporter of <i>Escherichia coli</i> . <i>Biochemistry</i> , 1998, 37, 13800-13806.	2.5	44
22	CaiT of <i>Escherichia coli</i> , a New Transporter Catalyzing L-Carnitine/ $\beta$ -Butyrobetaine Exchange. <i>Journal of Biological Chemistry</i> , 2002, 277, 39251-39258.	3.4	44
23	Ser57 in the Na <sup>+</sup> /Proline Permease of <i>Escherichia coli</i> is Critical for High-Affinity Proline Uptake. <i>FEBS Journal</i> , 1996, 239, 732-736.	0.2	40
24	Backbone Structure of Transmembrane Domain IX of the Na <sup>+</sup> /Proline Transporter PutP of <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2009, 96, 217-225.	0.5	38
25	A conformational change in the lactose permease of <i>Escherichia coli</i> is induced by ligand binding or membrane potential. <i>Protein Science</i> , 1994, 3, 1052-1057.	7.6	34
26	Spin Labeling Analysis of Structure and Dynamics of the Na <sup>+</sup> /Proline Transporter of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2000, 39, 4831-4837.	2.5	34
27	Membrane Topology of Helices VII and XI in the Lactose Permease of <i>Escherichia coli</i> Studied by lacY-phoA Fusion Analysis and Site-Directed Spectroscopy. <i>Biochemistry</i> , 1995, 34, 14909-14917.	2.5	32
28	L-Carnitine metabolism and osmotic stress response in <i>Escherichia coli</i> . <i>Journal of Basic Microbiology</i> , 1990, 30, 409-413.	3.3	31
29	Regulation of L-carnitine metabolism in <i>Escherichia coli</i> . <i>Journal of Basic Microbiology</i> , 1987, 27, 131-137.	3.3	30
30	Crotonobetaine reductase from <i>Escherichia coli</i> ? a new inducible enzyme of anaerobic metabolism of L(-)-carnitine. <i>Antonie Van Leeuwenhoek</i> , 1994, 65, 63-69.	1.7	30
31	Sites Important for Na <sup>+</sup> and Substrate Binding in the Na <sup>+</sup> /Proline Transporter of <i>Escherichia coli</i> , a Member of the Na <sup>+</sup> /Solute Symporter Family. <i>Journal of Biological Chemistry</i> , 2002, 277, 8790-8796.	3.4	30
32	Oligomeric Structure of the Carnitine Transporter CaiT from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 4795-4801.	3.4	30
33	Cooperation in Microbial Populations: Theory and Experimental Model Systems. <i>Journal of Molecular Biology</i> , 2019, 431, 4599-4644.	4.2	30
34	Transmembrane Domain II of the Na <sup>+</sup> /Proline Transporter PutP of <i>Escherichia coli</i> Forms Part of a Conformationally Flexible, Cytoplasmic Exposed Aqueous Cavity within the Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 42942-42949.	3.4	29
35	The Na <sup>+</sup> /L-proline transporter PutP. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 745.	3.0	29
36	L-Carnitine uptake by <i>Escherichia coli</i> . <i>Journal of Basic Microbiology</i> , 1990, 30, 507-514.	3.3	27

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37	Metabolism of d(+)-carnitine by <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 393-395.	3.6	27
38	Role of Conserved Arg40 and Arg117 in the Na <sup>+</sup> /Proline Transporter of <i>Escherichia coli</i> . <i>Biochemistry</i> , 1999, 38, 13523-13529.	2.5	27
39	Role of Ser-340 and Thr-341 in Transmembrane Domain IX of the Na <sup>+</sup> /Proline Transporter PutP of <i>Escherichia coli</i> in Ligand Binding and Transport. <i>Journal of Biological Chemistry</i> , 2008, 283, 4921-4929.	3.4	26
40	Homology Model of the Na <sup>+</sup> /Proline Transporter PutP of <i>Escherichia coli</i> and Its Functional Implications. <i>Journal of Molecular Biology</i> , 2011, 406, 59-74.	4.2	23
41	Topology and function of the Na <sup>+</sup> /proline transporter of <i>Escherichia coli</i> , a member of the Na <sup>+</sup> /solute cotransporter family. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1365, 60-64.	1.0	21
42	Function of Transmembrane Domain IX in the Na <sup>+</sup> /Proline Transporter PutP. <i>Journal of Molecular Biology</i> , 2008, 382, 884-893.	4.2	20
43	Interactions mediated by a public good transiently increase cooperativity in growing <i>Pseudomonas putida</i> metapopulations. <i>Scientific Reports</i> , 2018, 8, 4093.	3.3	20
44	Charge Translocation During Cosubstrate Binding in the Na <sup>+</sup> /Proline Transporter of <i>E.coli</i> . <i>Journal of Molecular Biology</i> , 2004, 343, 931-942.	4.2	19
45	Extracellular Loop 4 of the Proline Transporter PutP Controls the Periplasmic Entrance to Ligand Binding Sites. <i>Structure</i> , 2014, 22, 769-780.	3.3	19
46	PvdRT and OpmQ and MdtABC and OpmB efflux systems are involved in pyoverdine secretion in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology Reports</i> , 2019, 11, 98-106.	2.4	19
47	Identification of a Second Substrate-binding Site in Solute-Sodium Symporters. <i>Journal of Biological Chemistry</i> , 2015, 290, 127-141.	3.4	18
48	Prokaryotic Solute/Sodium Symporters: Versatile Functions and Mechanisms of a Transporter Family. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1880.	4.1	18
49	Secondary Transport of Amino Acids in Prokaryotes. <i>Journal of Membrane Biology</i> , 2006, 213, 119-133.	2.1	17
50	Characterization of the type III export signal of the flagellar hook scaffolding protein FlgD of <i>Escherichia coli</i> . <i>Archives of Microbiology</i> , 2006, 186, 307-316.	2.2	17
51	Non-Selective Evolution of Growing Populations. <i>PLoS ONE</i> , 2015, 10, e0134300.	2.5	17
52	Synthesis of l-carnitine by microorganisms and isolated enzymes. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1993, 50, 21-44.	1.1	14
53	The Sodium/Proline Transporter PutP of <i>Helicobacter pylori</i> . <i>PLoS ONE</i> , 2013, 8, e83576.	2.5	14
54	Transport and kinase activities of CbrA of <i>Pseudomonas putida</i> KT2440. <i>Scientific Reports</i> , 2020, 10, 5400.	3.3	10

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55	Glu-311 in External Loop 4 of the Sodium/Proline Transporter PutP Is Crucial for External Gate Closure. <i>Journal of Biological Chemistry</i> , 2016, 291, 4998-5008.	3.4	9
56	Core Transmembrane Domain 6 Plays a Pivotal Role in the Transport Cycle of the Sodium/Proline Symporter PutP. <i>Journal of Biological Chemistry</i> , 2016, 291, 26208-26215.	3.4	9
57	Resistance to Bipyridyls Mediated by the TtgABC Efflux System in <i>Pseudomonas putida</i> KT2440. <i>Frontiers in Microbiology</i> , 2020, 11, 1974.	3.5	8
58	A New Mechanism of Phosphoregulation in Signal Transduction Pathways. <i>Science Signaling</i> , 2009, 2, pe71.	3.6	6
59	Involvement of MexS and MexEF-OprN in Resistance to Toxic Ion Chelators in <i>Pseudomonas putida</i> KT2440. <i>Microorganisms</i> , 2020, 8, 1782.	3.6	5
60	HutT functions as the major L-histidine transporter in <i>Pseudomonas putida</i> KT2440. <i>FEBS Letters</i> , 2021, 595, 2113-2126.	2.8	5
61	Comparison of the functional properties of trimeric and monomeric CaiT of <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 3787.	3.3	4
62	Involvement of the MxtR/ErdR (CrbS/CrbR) Two-Component System in Acetate Metabolism in <i>Pseudomonas putida</i> KT2440. <i>Microorganisms</i> , 2021, 9, 1558.	3.6	4
63	Helix packing in the C-terminal half of lactose permease. <i>Advances in Cellular and Molecular Biology of Membranes and Organelles</i> , 1995, 4, 129-144.	0.3	3
64	Sodium/Substrate Transport. , 0, , 47-75.		2