

# Horst J Schirra

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

1,867  
citations

22  
h-index

43  
g-index

48  
ext. papers

2,124  
ext. citations

5.2  
avg, IF

4.49  
L-index

#	Paper	IF	Citations
45	Access to highly specialized growth substrates and production of epithelial immunomodulatory metabolites determine survival of <i>Haemophilus influenzae</i> in human airway epithelial cells.. <i>PLoS Pathogens</i> , <b>2022</b> , 18, e1010209	7.6	0
44	Future flavours from the past: Sensory and nutritional profiles of green plum ( <i>Buchanania obovata</i> ), red bush apple ( <i>Syzygium suborbiculare</i> ) and wild peach ( <i>Terminalia carpentariae</i> ) from East Arnhem Land, Australia. <i>Future Foods</i> , <b>2022</b> , 5, 100136	3.3	1
43	The Metabolic Response to Infection With <i>Wolbachia</i> Implicates the Insulin/Insulin-Like-Growth Factor and Hypoxia Signaling Pathways in <i>Drosophila melanogaster</i> . <i>Frontiers in Ecology and Evolution</i> , <b>2021</b> , 9,	3.7	2
42	Glucose Catabolism Leading to Production of the Immunometabolite Acetate Has a Key Contribution to the Host Airway-Pathogen Interplay. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 406-421	5.5	6
41	The Nutritional Potential of the Native Australian Green Plum () Compared to Other Anacardiaceae Fruit and Nuts. <i>Frontiers in Nutrition</i> , <b>2020</b> , 7, 600215	6.2	4
40	Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	236
39	Metabolic analyses reveal common adaptations in two invasive <i>Haemophilus influenzae</i> strains. <i>Pathogens and Disease</i> , <b>2019</b> , 77,	4.2	5
38	Video with Impact: Access to the World's Magnetic-Resonance Experts for the Scientific-Education Community. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 159-164	2.4	4
37	3-NOP vs. Halogenated Compound: Methane Production, Ruminal Fermentation and Microbial Community Response in Forage Fed Cattle. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1582	5.7	35
36	Modeling Meets Metabolomics-The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism. <i>Frontiers in Molecular Biosciences</i> , <b>2018</b> , 5, 96	5.6	23
35	NMR-Based Metabolomics of Oral Biofluids. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1537, 79-105	1.4	2
34	Seminal plasma enables selection and monitoring of active surveillance candidates using nuclear magnetic resonance-based metabolomics: A preliminary investigation. <i>Prostate International</i> , <b>2017</b> , 5, 149-157	3.4	13
33	Can atorvastatin with metformin change the natural history of prostate cancer as characterized by molecular, metabolomic, imaging and pathological variables? A randomized controlled trial protocol. <i>Contemporary Clinical Trials</i> , <b>2016</b> , 50, 16-20	2.3	4
32	Prostate-based biofluids for the detection of prostate cancer: A comparative study of the diagnostic performance of cell-sourced RNA biomarkers. <i>Prostate International</i> , <b>2016</b> , 4, 97-102	3.4	9
31	Tartrate inhibition of prostatic acid phosphatase improves seminal fluid metabolite stability. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	3
30	Diagnostic performance of expression of PCA3, Hepsin and miR biomarkers in ejaculate in combination with serum PSA for the detection of prostate cancer. <i>Prostate</i> , <b>2015</b> , 75, 539-49	4.2	33
29	Impacts of the Callipyge mutation on ovine plasma metabolites and muscle fibre type. <i>PLoS ONE</i> , <b>2014</b> , 9, e99726	3.7	2

28	Metabolic versatility in <i>Haemophilus influenzae</i> : a metabolomic and genomic analysis. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 69	5.7	19
27	A radish seed antifungal peptide with a high amyloid fibril-forming propensity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2013</b> , 1834, 1615-23	4	19
26	Urine metabonomic profiling of a female adolescent with PIT-1 mutation before and during growth hormone therapy: insights into the metabolic effects of growth hormone. <i>Growth Hormone and IGF Research</i> , <b>2013</b> , 23, 29-36	2	10
25	Comparative Genomics of Serial Isolates of <i>Cryptococcus neoformans</i> Reveals Gene Associated With Carbon Utilization and Virulence. <i>G3: Genes, Genomes, Genetics</i> , <b>2013</b> , 3, 675-686	3.2	37
24	Performance evaluation of algorithms for the classification of metabolic 1H NMR fingerprints. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 6242-51	5.6	25
23	A core metabolic enzyme mediates resistance to phosphine gas. <i>Science</i> , <b>2012</b> , 338, 807-10	33.3	109
22	Identification of crotonyl glycine in urine of sheep after 48 h road transport. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 67-68, 129-36	3.5	
21	Investigating potential mechanisms of obesity by metabolomics. <i>Journal of Biomedicine and Biotechnology</i> , <b>2012</b> , 2012, 805683		87
20	A unique chromosomal rearrangement in the <i>Cryptococcus neoformans</i> var. <i>grubii</i> type strain enhances key phenotypes associated with virulence. <i>MBio</i> , <b>2012</b> , 3,	7.8	25
19	Metabolomics: a novel approach to early and noninvasive prostate cancer detection. <i>Korean Journal of Urology</i> , <b>2011</b> , 52, 79-89		50
18	Altered fatty acid metabolism in long duration road transport: An NMR-based metabonomics study in sheep. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1073-87	5.6	25
17	Markers for detection of prostate cancer. <i>Cancers</i> , <b>2010</b> , 2, 1125-54	6.6	30
16	Selective removal of individual disulfide bonds within a potato type II serine proteinase inhibitor from <i>Nicotiana glauca</i> reveals differential stabilization of the reactive-site loop. <i>Journal of Molecular Biology</i> , <b>2010</b> , 395, 609-26	6.5	15
15	Structural refinement of insecticidal plant proteinase inhibitors from <i>Nicotiana glauca</i> . <i>Protein and Peptide Letters</i> , <b>2008</b> , 15, 903-9	1.9	8
14	NMRDyn: a program for NMR relaxation studies of protein association. <i>PLoS ONE</i> , <b>2008</b> , 3, e3820	3.7	1
13	Altered metabolism of growth hormone receptor mutant mice: a combined NMR metabonomics and microarray study. <i>PLoS ONE</i> , <b>2008</b> , 3, e2764	3.7	42
12	Crystal structures of flax rust avirulence proteins AvrL567-A and -D reveal details of the structural basis for flax disease resistance specificity. <i>Plant Cell</i> , <b>2007</b> , 19, 2898-912	11.6	112
11	Structure and folding of potato type II proteinase inhibitors: circular permutation and intramolecular domain swapping. <i>Protein and Peptide Letters</i> , <b>2005</b> , 12, 421-31	1.9	14

10	Crystal structures of the DsbG disulfide isomerase reveal an unstable disulfide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8876-81	11.5	91
9	Sunflower trypsin inhibitor-1. <i>Current Protein and Peptide Science</i> , <b>2004</b> , 5, 351-64	2.8	75
8	The three-dimensional solution structure of NaD1, a new floral defensin from <i>Nicotiana glauca</i> and its application to a homology model of the crop defense protein alfAFP. <i>Journal of Molecular Biology</i> , <b>2003</b> , 325, 175-88	6.5	114
7	Structure of <i>Petunia hybrida</i> defensin 1, a novel plant defensin with five disulfide bonds. <i>Biochemistry</i> , <b>2003</b> , 42, 8214-22	3.2	85
6	Enzymatic cyclization of a potent Bowman-Birk protease inhibitor, sunflower trypsin inhibitor-1, and solution structure of an acyclic precursor peptide. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 21782-94	5.4	64
5	The solution structure of C1-T1, a two-domain proteinase inhibitor derived from a circular precursor protein from <i>Nicotiana glauca</i> . <i>Journal of Molecular Biology</i> , <b>2001</b> , 306, 69-79	6.5	18
4	Solution structures by 1H NMR of the novel cyclic trypsin inhibitor SFTI-1 from sunflower seeds and an acyclic permutant. <i>Journal of Molecular Biology</i> , <b>2001</b> , 311, 579-91	6.5	195
3	Three-dimensional structure of RTD-1, a cyclic antimicrobial defensin from Rhesus macaque leukocytes. <i>Biochemistry</i> , <b>2001</b> , 40, 4211-21	3.2	145
2	Structure of reduced DsbA from <i>Escherichia coli</i> in solution. <i>Biochemistry</i> , <b>1998</b> , 37, 6263-76	3.2	53
1	Systems biology analysis using a genome-scale metabolic model shows that phosphine triggers global metabolic suppression in a resistant strain of <i>C. elegans</i>		6