

Horst J Schirra

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,379
citations

257357

24
h-index

233338

45
g-index

48
all docs

48
docs citations

48
times ranked

3854
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community. <i>Metabolites</i> , 2019, 9, 76.	1.3	387
2	Solution structures by 1 H NMR of the novel cyclic trypsin inhibitor SFTI-1 from sunflower seeds and an acyclic permutant 1 1 Edited by M. F. Summers. <i>Journal of Molecular Biology</i> , 2001, 311, 579-591.	2.0	220
3	Three-Dimensional Structure of RTD-1, a Cyclic Antimicrobial Defensin from Rhesus Macaque Leukocytes. <i>Biochemistry</i> , 2001, 40, 4211-4221.	1.2	153
4	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> , 2007, 19, 2898-2912.	3.1	143
5	A Core Metabolic Enzyme Mediates Resistance to Phosphine Gas. <i>Science</i> , 2012, 338, 807-810.	6.0	143
6	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> , 2003, 325, 175-188.	2.0	124
7	Investigating Potential Mechanisms of Obesity by Metabolomics. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-10.	3.0	113
8	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> , 2004, 101, 8876-8881.	3.3	95
9	Structure of <i>Petunia hybrida</i> Defensin 1, a Novel Plant Defensin with Five Disulfide Bonds. <i>Biochemistry</i> , 2003, 42, 8214-8222.	1.2	90
10	Sunflower Trypsin Inhibitor-1. <i>Current Protein and Peptide Science</i> , 2004, 5, 351-364.	0.7	85
11	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> , 2003, 278, 21782-21789.	1.6	78
12	Metabolomics: A Novel Approach to Early and Noninvasive Prostate Cancer Detection. <i>Korean Journal of Urology</i> , 2011, 52, 79.	1.2	62
13	3-NOP vs. Halogenated Compound: Methane Production, Ruminal Fermentation and Microbial Community Response in Forage Fed Cattle. <i>Frontiers in Microbiology</i> , 2018, 9, 1582.	1.5	62
14	Comparative Genomics of Serial Isolates of <i>Cryptococcus neoformans</i> Reveals Gene Associated With Carbon Utilization and Virulence. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 675-686.	0.8	57
15	Structure of Reduced DsbA from <i>Escherichia coli</i> in Solution. <i>Biochemistry</i> , 1998, 37, 6263-6276.	1.2	54
16	Altered Metabolism of Growth Hormone Receptor Mutant Mice: A Combined NMR Metabolomics and Microarray Study. <i>PLoS ONE</i> , 2008, 3, e2764.	1.1	43
17	Modeling Meets Metabolomics—The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism <i>Caenorhabditis elegans</i> . <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 96.	1.6	40
18	Markers for Detection of Prostate Cancer. <i>Cancers</i> , 2010, 2, 1125-1154.	1.7	39

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19	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> , 2015, 75, 539-549.	1.2	37
20	Performance Evaluation of Algorithms for the Classification of Metabolic ¹ H NMR Fingerprints. <i>Journal of Proteome Research</i> , 2012, 11, 6242-6251.	1.8	33
21	Altered Fatty Acid Metabolism in Long Duration Road Transport: An NMR-based Metabonomics Study in Sheep. <i>Journal of Proteome Research</i> , 2011, 10, 1073-1087.	1.8	32
22	Metabolic versatility in <i>Haemophilus influenzae</i> : a metabolomic and genomic analysis. <i>Frontiers in Microbiology</i> , 2014, 5, 69.	1.5	31
23	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> , 2012, 3, .	1.8	30
24	A radish seed antifungal peptide with a high amyloid fibril-forming propensity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1615-1623.	1.1	29
25	The solution structure of C1-T1, a two-domain proteinase inhibitor derived from a circular precursor protein from <i>Nicotiana glauca</i> Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2001, 306, 69-79.	2.0	20
26	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> , 2010, 395, 609-626.	2.0	17
27	Structure and Folding of Potato Type II Proteinase Inhibitors: Circular Permutation and Intramolecular Domain Swapping. <i>Protein and Peptide Letters</i> , 2005, 12, 421-431.	0.4	16
28	<i>Haemophilus influenzae</i> Glucose Catabolism Leading to Production of the Immunometabolite Acetate Has a Key Contribution to the Host Airway Pathogen Interplay. <i>ACS Infectious Diseases</i> , 2020, 6, 406-421.	1.8	15
29	Seminal plasma enables selection and monitoring of active surveillance candidates using nuclear magnetic resonance-based metabolomics: A preliminary investigation. <i>Prostate International</i> , 2017, 5, 149-157.	1.2	14
30	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> , 2013, 23, 29-36.	0.5	12
31	The Nutritional Potential of the Native Australian Green Plum (<i>Buchanania obovata</i>) Compared to Other Anacardiaceae Fruit and Nuts. <i>Frontiers in Nutrition</i> , 2020, 7, 600215.	1.6	11
32	Structural Refinement of Insecticidal Plant Proteinase Inhibitors from <i>Nicotiana glauca</i> . <i>Protein and Peptide Letters</i> , 2008, 15, 903-909.	0.4	10
33	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> , 2016, 4, 97-102.	1.2	9
34	Metabolic analyses reveal common adaptations in two invasive <i>Haemophilus influenzae</i> strains. <i>Pathogens and Disease</i> , 2019, 77, .	0.8	9
35	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> , 2022, 18, e1010209.	2.1	7
36	Video with Impact: Access to the World's Magnetic-Resonance Experts for the Scientific-Education Community. <i>Journal of Chemical Education</i> , 2019, 96, 159-164.	1.1	6

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37	The Metabolic Response to Infection With Wolbachia Implicates the Insulin/Insulin-Like-Growth Factor and Hypoxia Signaling Pathways in <i>Drosophila melanogaster</i> . <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	6
38	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> , 2016, 50, 16-20.	0.8	5
39	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> , 2022, 5, 100136.	2.4	5
40	Impacts of the Callipyge Mutation on Ovine Plasma Metabolites and Muscle Fibre Type. <i>PLoS ONE</i> , 2014, 9, e99726.	1.1	3
41	Tartrate inhibition of prostatic acid phosphatase improves seminal fluid metabolite stability. <i>Metabolomics</i> , 2016, 12, 1.	1.4	3
42	NMR-Based Metabolomics of Oral Biofluids. <i>Methods in Molecular Biology</i> , 2017, 1537, 79-105.	0.4	2
43	NMRDyn: A Program for NMR Relaxation Studies of Protein Association. <i>PLoS ONE</i> , 2008, 3, e3820.	1.1	1
44	Cyanine-5-Driven Behaviours of Hyperbranched Polymers Designed for Therapeutic Delivery Are Cell-Type Specific and Correlated with Polar Lipid Distribution in Membranes. <i>Nanomaterials</i> , 2021, 11, 1745.	1.9	1
45	Overview of NMR in the Pharmaceutical Sciences. , 2008, , 1195-1202.		0
46	Identification of crotonyl glycine in urine of sheep after 48h road transport. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 67-68, 129-136.	1.4	0