

Christian Ludwig

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,156
citations

172457

29
h-index

168389

53
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79
all docs

79
docs citations

79
times ranked

5168
citing authors

#	ARTICLE	IF	CITATIONS
1	30-day morbidity and mortality of sleeve gastrectomy, Roux-en-Y gastric bypass and one anastomosis gastric bypass: a propensity score-matched analysis of the GENEVA data. International Journal of Obesity, 2022, 46, 750-757.	3.4	19
2	Safety of Bariatric Surgery in 65-Year-Old Patients During the COVID-19 Pandemic. Obesity Surgery, 2022, 32, 1-13.	2.1	4
3	Global 30-day outcomes after bariatric surgery during the COVID-19 pandemic (GENEVA): an international cohort study. Lancet Diabetes and Endocrinology, 2021, 9, 7-9.	11.4	58
4	Optimised collection of non-uniformly sampled 2D HSQC NMR spectra for use in metabolic flux analysis. Magnetic Resonance in Chemistry, 2021, 59, 287-299.	1.9	5
5	Systemic and adipocyte transcriptional and metabolic dysregulation in idiopathic intracranial hypertension. JCI Insight, 2021, 6, .	5.0	45
6	30-Day Morbidity and Mortality of Bariatric Surgery During the COVID-19 Pandemic: a Multinational Cohort Study of 7704 Patients from 42 Countries. Obesity Surgery, 2021, 31, 4272-4288.	2.1	34
7	30-Day morbidity and mortality of bariatric metabolic surgery in adolescence during the COVID-19 pandemic – The GENEVA study. Pediatric Obesity, 2021, 16, e12832.	2.8	16
8	Effect of COVID-19 pandemic on global Bariatric surgery PRACTICE – The COBRAS study. Obesity Research and Clinical Practice, 2021, 15, 395-401.	1.8	21
9	Nicotinamide riboside has minimal impact on energy metabolism in mouse models of mild obesity. Journal of Endocrinology, 2021, 251, 111-123.	2.6	12
10	A human pluripotent stem cell model for the analysis of metabolic dysfunction in hepatic steatosis. iScience, 2021, 24, 101931.	4.1	19
11	Influence of Different Partial Pressures of Oxygen During Continuous Hypothermic Machine Perfusion in a Pig Kidney Ischemia-reperfusion Autotransplant Model. Transplantation, 2020, 104, 731-743.	1.0	21
12	In vivo [¹³ C]glucose labeling to assess heart metabolism in murine models of pressure and volume overload. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H422-H431.	3.2	22
13	Brief O ₂ uploading during continuous hypothermic machine perfusion is simple yet effective oxygenation method to improve initial kidney function in a porcine autotransplant model. American Journal of Transplantation, 2020, 20, 2030-2043.	4.7	32
14	Detecting acetylated aminoacids in blood serum using hyperpolarized ¹³ C-1D-NMR. Journal of Magnetic Resonance, 2019, 305, 175-179.	2.1	9
15	The Effects of Oxygenation on Ex Vivo Kidneys Undergoing Hypothermic Machine Perfusion. Transplantation, 2019, 103, 314-322.	1.0	48
16	PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, .	6.4	60
17	The Metabolic Profile of Stable Ischemic Heart Disease by Serum ¹ H NMR. Applied Magnetic Resonance, 2019, 50, 527-539.	1.2	1
18	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. Analytical Chemistry, 2018, 90, 649-656.	6.5	50

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19	Metabolic tracing reveals novel adaptations to skeletal muscle cell energy production pathways in response to NAD ⁺ depletion. Wellcome Open Research, 2018, 3, 147.	1.8	14
20	Rationalisation of a mechanism for sensing single point variants in target DNA using anthracene-tagged base discriminating probes. Organic and Biomolecular Chemistry, 2018, 16, 6576-6585.	2.8	5
21	High-Speed Tracer Analysis of Metabolism (HS-TrAM). Wellcome Open Research, 2018, 3, 5.	1.8	9
22	Metabolic tracing reveals novel adaptations to skeletal muscle cell energy production pathways in response to NAD ⁺ depletion. Wellcome Open Research, 2018, 3, 147.	1.8	17
23	Nuclear Magnetic Resonance Strategies for Metabolic Analysis. Advances in Experimental Medicine and Biology, 2017, 965, 45-76.	1.6	5
24	Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie - International Edition, 2017, 56, 4140-4144.	13.8	23
25	Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie, 2017, 129, 4204-4208.	2.0	3
26	Metabolomic Evidence for a Field Effect in Histologically Normal and Metaplastic Tissues in Patients with Esophageal Adenocarcinoma. Neoplasia, 2017, 19, 165-174.	5.3	10
27	Metabolic differences between cold stored and machine perfused porcine kidneys: A 1 H NMR based study. Cryobiology, 2017, 74, 115-120.	0.7	25
28	The chelation of colonic luminal iron by a unique sodium alginate for the improvement of gastrointestinal health. Molecular Nutrition and Food Research, 2016, 60, 2098-2108.	3.3	11
29	Tracer-Based Metabolic NMR-Based Flux Analysis in a Leukaemia Cell Line. ChemPlusChem, 2016, 81, 453-459.	2.8	15
30	¹³ C glucose labelling studies using 2D NMR are a useful tool for determining ex vivo whole organ metabolism during hypothermic machine perfusion of kidneys. Transplantation Research, 2016, 5, 7.	1.5	20
31	Malonate as a ROS product is associated with pyruvate carboxylase activity in acute myeloid leukaemia cells. Cancer & Metabolism, 2016, 4, 15.	5.0	20
32	Probing Cancer Cell Metabolism Using NMR Spectroscopy. Advances in Experimental Medicine and Biology, 2016, 899, 89-111.	1.6	10
33	COordination of Standards in MetabOlogicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
34	Improved Stability and Spectral Quality in Ex Situ Dissolution DNP Using an Improved Transfer Device. Applied Magnetic Resonance, 2015, 46, 723-729.	1.2	24
35	Metabolomic Analysis of Perfusate During Hypothermic Machine Perfusion of Human Cadaveric Kidneys. Transplantation, 2015, 99, 754-759.	1.0	48
36	Loss of succinate dehydrogenase activity results in dependency on pyruvate carboxylation for cellular anabolism. Nature Communications, 2015, 6, 8784.	12.8	169

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37	Metabolomic Perfusate Analysis during Kidney Machine Perfusion: The Pig Provides an Appropriate Model for Human Studies. PLoS ONE, 2014, 9, e114818.	2.5	17
38	A Role for Cytosolic Fumarate Hydratase in Urea Cycle Metabolism and Renal Neoplasia. Cell Reports, 2013, 3, 1440-1448.	6.4	78
39	MALDI profiles of proteins and lipids for the rapid characterisation of upper GI-tract cancers. Journal of Proteomics, 2013, 80, 207-215.	2.4	15
40	Fumarate Is Cardioprotective via Activation of the Nrf2 Antioxidant Pathway. Cell Metabolism, 2012, 15, 361-371.	16.2	231
41	Birmingham Metabolite Library: a publicly accessible database of 1-D 1H and 2-D 1H J-resolved NMR spectra of authentic metabolite standards (BML-NMR). Metabolomics, 2012, 8, 8-18.	3.0	137
42	Anthracene-modified oligonucleotides as fluorescent DNA mismatch sensors: discrimination between various base-pair mismatches. Supramolecular Chemistry, 2011, 23, 273-277.	1.2	7
43	Deciphering the Molecular Details for the Binding of the Prion Protein to Main Ganglioside GM1 of Neuronal Membranes. Chemistry and Biology, 2011, 18, 1422-1431.	6.0	45
44	MetaboLab - advanced NMR data processing and analysis for metabolomics. BMC Bioinformatics, 2011, 12, 366.	2.6	116
45	Assignment of the orphan nuclear receptor Nurr1 by NMR. Biomolecular NMR Assignments, 2010, 4, 101-105.	0.8	11
46	Site-specific Investigation of the Steady-state Kinetics and Dynamics of the Multistep Binding of Bile Acid Molecules to a Lipid Carrier Protein. Chemistry - A European Journal, 2010, 16, 11300-11310.	3.3	19
47	Two-dimensional J-resolved NMR spectroscopy: review of a key methodology in the metabolomics toolbox. Phytochemical Analysis, 2010, 21, 22-32.	2.4	208
48	Quantum rotor induced hyperpolarization. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10799-10803.	7.1	24
49	Optimizing the Polarization Matrix for ex Situ Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2010, 132, 2508-2509.	13.7	25
50	Application of ex situ dynamic nuclear polarization in studying small molecules. Physical Chemistry Chemical Physics, 2010, 12, 5868.	2.8	26
51	Ligand based NMR methods for drug discovery. Frontiers in Bioscience - Landmark, 2009, Volume, 4565.	3.0	48
52	Line-shape analysis of J-resolved NMR spectra: application to metabolomics and quantification of intensity errors from signal processing and high signal congestion. Magnetic Resonance in Chemistry, 2009, 47, S86-95.	1.9	30
53	Backbone assignment of the N-terminal polyomavirus large T antigen. Biomolecular NMR Assignments, 2009, 3, 119-123.	0.8	13
54	Ligand-based NMR spectra demonstrate an additional phytoestrogen binding site for 17 β -hydroxysteroid dehydrogenase type 1. Journal of Steroid Biochemistry and Molecular Biology, 2009, 117, 93-98.	2.5	12

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55	The effects of tumor-derived platelet-derived growth factor on vascular morphology and function <i>in vivo</i> revealed by susceptibility MRI. <i>International Journal of Cancer</i> , 2008, 122, 1548-1556.	5.1	23
56	Effects of the application of different window functions and projection methods on processing of 1H J-resolved nuclear magnetic resonance spectra for metabolomics. <i>Analytica Chimica Acta</i> , 2008, 610, 80-88.	5.4	29
57	Determinants for Optimal Enhancement in Ex Situ DNP Experiments. <i>Applied Magnetic Resonance</i> , 2008, 34, 483-494.	1.2	26
58	Evaluation of Solvent Accessibility Epitopes for Different Dehydrogenase Inhibitors. <i>ChemMedChem</i> , 2008, 3, 1371-1376.	3.2	16
59	Optimized metabolite extraction from blood serum for 1H nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2008, 377, 16-23.	2.4	164
60	Optimizing the Signal Enhancement In Cryogenic ex situ DNP NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6914-6915.	13.7	16
61	Metabolic Changes in Flatfish Hepatic Tumours Revealed by NMR-Based Metabolomics and Metabolic Correlation Networks. <i>Journal of Proteome Research</i> , 2008, 7, 5277-5285.	3.7	60
62	SALMON: Solvent Accessibility, Ligand binding, and Mapping of ligand Orientation by NMR Spectroscopy. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1-3.	6.4	69
63	Functional and Biophysical Analysis of the C-Terminus of the CGRP-Receptor; a Family B GPCR. <i>Biochemistry</i> , 2008, 47, 8434-8444.	2.5	40
64	Improved classification accuracy in 1- and 2-dimensional NMR metabolomics data using the variance stabilising generalised logarithm transformation. <i>BMC Bioinformatics</i> , 2007, 8, 234.	2.6	188
65	Proposed reporting requirements for the description of NMR-based metabolomics experiments. <i>Metabolomics</i> , 2007, 3, 223-229.	3.0	49
66	Validation of a urine metabolome fingerprint in dog for phenotypic classification. <i>Metabolomics</i> , 2007, 3, 453-463.	3.0	40
67	Rat Tumor Response to the Vascular-Disrupting Agent 5,6-Dimethylxanthenone-4-Acetic Acid as Measured by Dynamic Contrast-Enhanced Magnetic Resonance Imaging, Plasma 5-Hydroxyindoleacetic Acid Levels, and Tumor Necrosis. <i>Neoplasia</i> , 2006, 8, 199-206.	5.3	35
68	De novo design of a stable N-terminal helical foldamer. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 4310.	2.8	13
69	A method for interleaved acquisition of a vascular input function for dynamic contrast-enhanced MRI in experimental rat tumours. <i>NMR in Biomedicine</i> , 2004, 17, 132-143.	2.8	21
70	Structure and Backbone Dynamics of Apo- and Holo-cellular Retinol-binding Protein in Solution. <i>Journal of Biological Chemistry</i> , 2002, 277, 21983-21997.	3.4	54
71	Solution structure and backbone dynamics of human epidermal-type fatty acid-binding protein (E-FABP). <i>Biochemical Journal</i> , 2002, 364, 725-737.	3.7	55
72	WAVEWAT Improved Solvent Suppression in NMR Spectra Employing Wavelet Transforms. <i>Journal of Magnetic Resonance</i> , 2002, 156, 19-25.	2.1	34

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73	Solution Structure and Dynamics of the Functional Domain of Paracoccus denitrificans Cytochrome c552 in Both Redox States. <i>Biochemistry</i> , 2001, 40, 12312-12320.	2.5	28
74	NMRLAB: Advanced NMR Data Processing in Matlab. <i>Journal of Magnetic Resonance</i> , 2000, 145, 201-208.	2.1	85
75	A comparative study of the backbone dynamics of two closely related lipid binding proteins: Bovine heart fatty acid binding protein and porcine ileal lipid binding protein. , 1999, , 109-121.		1
76	High-Speed Tracer Analysis of Metabolism (HS-TrAM). <i>Wellcome Open Research</i> , 0, 3, 5.	1.8	1