

Anders Malmendal

List of Publications by Year in descending order

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77
papers

3,666
citations

147566

31
h-index

133063

59
g-index

81
all docs

81
docs citations

81
times ranked

4727
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Brain damage and behavioural disorders in fish induced by plastic nanoparticles delivered through the food chain. <i>Scientific Reports</i> , 2017, 7, 11452. | 1.6 | 491 |
| 2 | Altered Behavior, Physiology, and Metabolism in Fish Exposed to Polystyrene Nanoparticles. <i>Environmental Science & Technology</i> , 2015, 49, 553-561. | 4.6 | 421 |
| 3 | Metabolomic profiling of rapid cold hardening and cold shock in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2007, 53, 1218-1232. | 0.9 | 232 |
| 4 | Metabolomic profiling of heat stress: hardening and recovery of homeostasis in <i>Drosophila</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R205-R212. | 0.9 | 170 |
| 5 | Structural dynamics in the C-terminal domain of calmodulin at low calcium levels 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1999, 293, 883-899. | 2.0 | 148 |
| 6 | Backbone dynamics and energetics of a Calmodulin domain mutant exchanging between closed and open conformations. <i>Journal of Molecular Biology</i> , 1999, 289, 603-617. | 2.0 | 122 |
| 7 | Solution Structure of the Paramagnetic Complex of the N-Terminal Domain of Calmodulin with Two Ce^{3+} Ions by ^1H NMR. <i>Biochemistry</i> , 1997, 36, 11605-11618. | 1.2 | 93 |
| 8 | Dynamics of the Transition between Open and Closed Conformations in a Calmodulin C-Terminal Domain Mutant. <i>Structure</i> , 2001, 9, 185-195. | 1.6 | 88 |
| 9 | Battle for the EF-Hands: Magnesium-Calcium Interference in Calmodulin. <i>Biochemistry</i> , 1999, 38, 11844-11850. | 1.2 | 85 |
| 10 | NMR Studies of the E140Q Mutant of the Carboxy-Terminal Domain of Calmodulin Reveal Global Conformational Exchange in the Ca^{2+} -Saturated State. <i>Biochemistry</i> , 1997, 36, 3448-3457. | 1.2 | 72 |
| 11 | Metabolomic Signatures of Inbreeding at Benign and Stressful Temperatures in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2008, 180, 1233-1243. | 1.2 | 71 |
| 12 | Ca^{2+} Binding and Conformational Changes in a Calmodulin Domain. <i>Biochemistry</i> , 1998, 37, 13744-13754. | 1.2 | 67 |
| 13 | The Flexibility of SIMPSON and SIMMOL for Numerical Simulations in Solid- and Liquid-State NMR Spectroscopy. <i>Monatshefte für Chemie</i> , 2002, 133, 1555-1574. | 0.9 | 66 |
| 14 | Structural basis for the negative allostery between Ca^{2+} and Mg^{2+} binding in the intracellular Ca^{2+} receptor calbindin D_{9k} . <i>Protein Science</i> , 1997, 6, 1139-1147. | 3.1 | 65 |
| 15 | Evidence for Differing Roles for Each Lobe of the Calmodulin-like Domain in a Calcium-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 29092-29100. | 1.6 | 62 |
| 16 | NMR-based metabolomic studies reveal changes in the biochemical profile of plasma and urine from pigs fed high-fibre rye bread. <i>British Journal of Nutrition</i> , 2006, 95, 955-962. | 1.2 | 62 |
| 17 | Calcium. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 293-302. | 2.8 | 59 |
| 18 | When Size Is Important. <i>Journal of Biological Chemistry</i> , 1998, 273, 28994-29001. | 1.6 | 54 |

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|----|--|-----|-----------|
| 19 | Metabolic and functional characterization of effects of developmental temperature in <i>Drosophila melanogaster</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R211-R222. | 0.9 | 46 |
| 20 | Effect of Magnetic Field Strength on NMR-Based Metabonomic Human Urine Data. <i>Comparative Study of 250, 400, 500, and 800 MHz</i> . <i>Analytical Chemistry</i> , 2007, 79, 7110-7115. | 3.2 | 45 |
| 21 | Creatine-induced activation of antioxidative defence in myotube cultures revealed by explorative NMR-based metabonomics and proteomics. <i>Journal of the International Society of Sports Nutrition</i> , 2010, 7, 9. | 1.7 | 45 |
| 22 | Sequence and Context Dependence of EF-Hand Loop Dynamics. An ¹⁵ N Relaxation Study of a Calcium-Binding Site Mutant of Calbindin D9k. <i>Biochemistry</i> , 1998, 37, 2586-2595. | 1.2 | 41 |
| 23 | In vitro and in vivo studies of creatine monohydrate supplementation to Duroc and Landrace pigs. <i>Meat Science</i> , 2007, 76, 342-351. | 2.7 | 40 |
| 24 | Freeze tolerance and accumulation of cryoprotectants in the enchytraeid <i>Enchytraeus albidus</i> (Oligochaeta) from Greenland and Europe. <i>Cryobiology</i> , 2008, 57, 286-291. | 0.3 | 38 |
| 25 | Techniques and applications of NMR to membrane proteins (Review). <i>Molecular Membrane Biology</i> , 2004, 21, 129-141. | 2.0 | 37 |
| 26 | Ultrastructural evidence for self-replication of Alzheimer-associated A β ²⁴² amyloid along the sides of fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11265-11273. | 3.3 | 37 |
| 27 | The Metabolic Profile of Long-Lived <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012, 7, e47461. | 1.1 | 37 |
| 28 | Quantitative Analysis of Constituents in Heavy Fuel Oil by ¹ H Nuclear Magnetic Resonance (NMR) Spectroscopy and Multivariate Data Analysis. <i>Energy & Fuels</i> , 2008, 22, 4070-4076. | 2.5 | 36 |
| 29 | Liver-specific <i>Aquaporin 11</i> knockout mice show rapid vacuolization of the rough endoplasmic reticulum in periportal hepatocytes after amino acid feeding. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, G501-G515. | 1.6 | 36 |
| 30 | NMR Spectrometers as "Magnetic Tongues" Prediction of Sensory Descriptors in Canned Tomatoes. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10831-10838. | 2.4 | 35 |
| 31 | Hemolymph metabolites and osmolality are tightly linked to cold tolerance of <i>Drosophila</i> species: a comparative study. <i>Journal of Experimental Biology</i> , 2016, 219, 2504-13. | 0.8 | 34 |
| 32 | Early Stages of Amyloid Fibril Formation Studied by Liquid-State NMR: The Peptide Hormone Glucagon. <i>Biophysical Journal</i> , 2008, 95, 366-377. | 0.2 | 33 |
| 33 | Mutation in transforming growth factor beta induced protein associated with granular corneal dystrophy type 1 reduces the proteolytic susceptibility through local structural stabilization. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2812-2822. | 1.1 | 33 |
| 34 | Charge Regulation during Amyloid Formation of α -Synuclein. <i>Journal of the American Chemical Society</i> , 2021, 143, 7777-7791. | 6.6 | 33 |
| 35 | NMR-based metabonomics reveals that plasma betaine increases upon intake of high-fiber rye buns in hypercholesterolemic pigs. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 1055-1062. | 1.5 | 32 |
| 36 | Application of "magnetic tongue" to the sensory evaluation of extra virgin olive oil. <i>Food Chemistry</i> , 2013, 140, 692-699. | 4.2 | 30 |

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|----|--|-----|-----------|
| 37 | Metabolic Changes during Estivation in the Common Earthworm <i>Aporrectodea caliginosa</i> . <i>Physiological and Biochemical Zoology</i> , 2010, 83, 541-550. | 0.6 | 27 |
| 38 | NMR Reveals Two-Step Association of Congo Red to Amyloid β^2 in Low-Molecular-Weight Aggregates. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16003-16010. | 1.2 | 27 |
| 39 | Metabolomic analysis of the selection response of <i>Drosophila melanogaster</i> to environmental stress: are there links to gene expression and phenotypic traits?. <i>Die Naturwissenschaften</i> , 2013, 100, 417-427. | 0.6 | 27 |
| 40 | pKa Determination of a Histidine Residue in a Short Peptide Using Raman Spectroscopy. <i>Molecules</i> , 2019, 24, 405. | 1.7 | 27 |
| 41 | Slow desiccation improves dehydration tolerance and accumulation of compatible osmolytes in earthworm cocoons (<i>Dendrobaena octaedra</i> Savigny). <i>Journal of Experimental Biology</i> , 2008, 211, 1903-1910. | 0.8 | 26 |
| 42 | Use of NMR in profiling of cocaine seizures. <i>Forensic Science International</i> , 2013, 231, 120-124. | 1.3 | 26 |
| 43 | Hsp70 expression and metabolite composition in response to short-term thermal changes in <i>Folsomia candida</i> (Collembola). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 157, 177-183. | 0.8 | 25 |
| 44 | <i>Drosophila</i> neprilysins control insulin signaling and food intake via cleavage of regulatory peptides. <i>ELife</i> , 2016, 5, . | 2.8 | 23 |
| 45 | Metabolic control of PPAR activity by aldehyde dehydrogenase regulates invasive cell behavior and predicts survival in hepatocellular and renal clear cell carcinoma. <i>BMC Cancer</i> , 2018, 18, 1180. | 1.1 | 22 |
| 46 | Mapping of unfolding states of integral helical membrane proteins by GPS-NMR and scattering techniques: TFE-induced unfolding of KcsA in DDM surfactant. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2290-2301. | 1.4 | 20 |
| 47 | Adsorption of bio-organic eco-corona molecules reduces the toxic response to metallic nanoparticles in <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2021, 11, 10784. | 1.6 | 20 |
| 48 | A metabolomic investigation of splanchnic metabolism using ^1H NMR spectroscopy of bovine blood plasma. <i>Analytica Chimica Acta</i> , 2005, 536, 1-6. | 2.6 | 19 |
| 49 | A GC-MS-based metabolomic investigation of blood serum from irritable bowel syndrome patients undergoing intervention with acidified milk products. <i>European Food Research and Technology</i> , 2011, 233, 1013-1021. | 1.6 | 18 |
| 50 | Fast Mapping of Global Protein Folding States by Multivariate NMR: A GPS for Proteins. <i>PLoS ONE</i> , 2010, 5, e10262. | 1.1 | 18 |
| 51 | SDS-Facilitated In vitro Formation of a Transmembrane B-Type Cytochrome Is Mediated by Changes in Local pH. <i>Journal of Molecular Biology</i> , 2011, 407, 594-606. | 2.0 | 17 |
| 52 | Cold tolerance and freeze-induced glucose accumulation in three terrestrial slugs. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 161, 443-449. | 0.8 | 17 |
| 53 | Sensory Assessment of Fish and Chicken Protein Hydrolysates. Evaluation of NMR Metabolomics Profiling as a New Prediction Tool. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3881-3890. | 2.4 | 17 |
| 54 | Inhibition of plasminogen activator inhibitor-1 binding to endocytosis receptors of the low-density-lipoprotein receptor family by a peptide isolated from a phage display library. <i>Biochemical Journal</i> , 2006, 399, 387-396. | 1.7 | 16 |

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| 55 | The Serum Metabolite Response to Diet Intervention with Probiotic Acidified Milk in Irritable Bowel Syndrome Patients Is Indistinguishable from that of Non-Probiotic Acidified Milk by 1H NMR-Based Metabonomic Analysis. <i>Nutrients</i> , 2010, 2, 1141-1155. | 1.7 | 16 |
| 56 | The Binding Mechanism of a Peptidic Cyclic Serine Protease Inhibitor. <i>Journal of Molecular Biology</i> , 2011, 412, 235-250. | 2.0 | 16 |
| 57 | Characterization of dry globular proteins and protein fibrils by synchrotron radiation vacuum UV circular dichroism. <i>Biopolymers</i> , 2008, 89, 779-795. | 1.2 | 15 |
| 58 | Metabolic changes may precede proteostatic dysfunction in <i>Drosophila</i> model of amyloid beta peptide toxicity. <i>Neurobiology of Aging</i> , 2016, 41, 39-52. | 1.5 | 14 |
| 59 | Mild heat treatments induce long-term changes in metabolites associated with energy metabolism in <i>Drosophila melanogaster</i> . <i>Biogerontology</i> , 2016, 17, 873-882. | 2.0 | 13 |
| 60 | Calcium-Modulated S100 Protein-Phospholipid Interactions. An NMR Study of Calbindin D9k and DPC. <i>Biochemistry</i> , 2005, 44, 6502-6512. | 1.2 | 12 |
| 61 | Metabolic characterization of rumen epithelial tissue from dairy calves fed different starter diets using 1H NMR spectroscopy. <i>Livestock Science</i> , 2009, 120, 127-134. | 0.6 | 10 |
| 62 | NMR studies of the fifth transmembrane segment of sarcoplasmic reticulum Ca ²⁺ -ATPase reveals a hinge close to the Ca ²⁺ -ligating residues. <i>FEBS Letters</i> , 2003, 544, 50-56. | 1.3 | 9 |
| 63 | Metabolic and functional phenotypic profiling of <i>Drosophila melanogaster</i> reveals reduced sex differentiation under stressful environmental conditions. <i>Biological Journal of the Linnean Society</i> , 2018, 123, 155-162. | 0.7 | 9 |
| 64 | Impacts of thermal fluctuations on heat tolerance and its metabolomic basis in <i>Arabidopsis thaliana</i> , <i>Drosophila melanogaster</i> , and <i>Orchesella cincta</i> . <i>PLoS ONE</i> , 2020, 15, e0237201. | 1.1 | 9 |
| 65 | Nascent structure in the kinase anchoring domain of microtubule-associated protein 2. <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 136-142. | 1.0 | 6 |
| 66 | Revealing Well-Defined Soluble States during Amyloid Fibril Formation by Multilinear Analysis of NMR Diffusion Data. <i>Journal of the American Chemical Society</i> , 2019, 141, 18649-18652. | 6.6 | 6 |
| 67 | A method of predicting the in vitro fibril formation propensity of A β 240 mutants based on their inclusion body levels in <i>E. coli</i> . <i>Scientific Reports</i> , 2019, 9, 3680. | 1.6 | 6 |
| 68 | Amyloid β 242 peptide is toxic to non-neural cells in <i>Drosophila</i> yielding a characteristic metabolite profile and the effect can be suppressed by PI3K. <i>Biology Open</i> , 2017, 6, 1664-1671. | 0.6 | 5 |
| 69 | Correlation between stage of prostate cancer and tyrosine and tryptophan in urine samples measured electrochemically. <i>Analytical Biochemistry</i> , 2022, 649, 114698. | 1.1 | 5 |
| 70 | Cation Binding in Na,K-ATPase, Investigated by 205TI Solid-State NMR Spectroscopy. <i>Biochemistry</i> , 2006, 45, 10768-10776. | 1.2 | 4 |
| 71 | Prediction of complex phenotypes using the <i>Drosophila melanogaster</i> metabolome. <i>Heredity</i> , 2021, 126, 717-732. | 1.2 | 4 |
| 72 | Can we adjust a marine cyclopoid copepod to freshwater? First step towards a "universal" live feed product for fish and shrimp larvae. <i>Aquaculture Research</i> , 0, , . | 0.9 | 4 |

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|----|---|-----|-----------|
| 73 | NMR studies of the fifth transmembrane segment of Na ⁺ ,K ⁺ -ATPase reveals a non-helical ion-binding region. FEBS Letters, 2006, 580, 4777-4783. | 1.3 | 3 |
| 74 | In-hospital metabolite changes in infective endocarditis—a longitudinal 1H NMR-based study. European Journal of Clinical Microbiology and Infectious Diseases, 2019, 38, 1553-1560. | 1.3 | 3 |
| 75 | An NMR-based metabolomic approach to assess metabolism in splanchnic tissues of steers. Journal of Animal and Feed Sciences, 2004, 13, 295-298. | 0.4 | 3 |
| 76 | Effect of Nanoparticles in Top Consumers. Biophysical Journal, 2014, 106, 625a. | 0.2 | 1 |
| 77 | Molecular Networks and Macromolecular Molar Mass Distributions for Preliminary Characterization of Danish Craft Beers. Beverages, 2022, 8, 35. | 1.3 | 0 |