

Michael A Menze

List of Publications by Year in descending order

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59
papers

1,816
citations

257450

24
h-index

289244

40
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61
all docs

61
docs citations

61
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal changes in mitochondrial bioenergetics and physiological performance of the bluegill sunfish, <i>Lepomis macrochirus</i> , from a shallow, Midwest river. <i>Journal of Thermal Biology</i> , 2022, 104, 103186.	2.5	1
2	Functional and Conformational Plasticity of an Animal Group 1 LEA Protein. <i>Biomolecules</i> , 2022, 12, 425.	4.0	9
3	Selection on dispersal drives evolution of metabolic capacities for energy production in female wingâ€polymorphic sand field crickets, <i>Gryllus firmus</i>. <i>Journal of Evolutionary Biology</i> , 2022, 35, 599-609.	1.7	5
4	LEAing through literature: late embryogenesis abundant proteins coming of ageâ€”achievements and perspectives. <i>Journal of Experimental Botany</i> , 2022, 73, 6525-6546.	4.8	24
5	Sonoporation enables high-throughput loading of trehalose into red blood cells. <i>Cryobiology</i> , 2021, 98, 73-79.	0.7	11
6	Global changes to HepG2 cell metabolism in response to galactose treatment. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C778-C793.	4.6	16
7	Assembly and Operation of an Acoustofluidic Device for Enhanced Delivery of Molecular Compounds to Cells. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
8	Acoustofluidic-mediated molecular delivery to human T cells with a three-dimensional-printed flow chamber. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 4534-4547.	1.1	5
9	Liquid-liquid phase separation promotes animal desiccation tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27676-27684.	7.1	50
10	Ultrasound-induced molecular delivery to erythrocytes using a microfluidic system. <i>Biomicrofluidics</i> , 2020, 14, 024114.	2.4	19
11	Sonoporation-mediated trehalose loading for red blood cell stabilization. <i>Cryobiology</i> , 2020, 97, 273.	0.7	0
12	Structural properties and cellular expression of AfrLEA6, a group 6 late embryogenesis abundant protein from embryos of <i>Artemia franciscana</i> . <i>Cell Stress and Chaperones</i> , 2019, 24, 979-990.	2.9	12
13	Crystal structure of the mitochondrial protein mitoNEET bound to a benze-sulfonide ligand. <i>Communications Chemistry</i> , 2019, 2, .	4.5	21
14	4-Hydroxynonenal and 4-Oxononenal Differentially Bind to the Redox Sensor MitoNEET. <i>Chemical Research in Toxicology</i> , 2019, 32, 977-981.	3.3	8
15	Binding of thiazolidinediones to the endoplasmic reticulum protein nutrient-deprivation autophagy factor-1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 901-904.	2.2	11
16	New insights into anhydrobiosis using cellular dielectrophoresis-based characterization. <i>Biomicrofluidics</i> , 2019, 13, 064113.	2.4	6
17	Potential functions of LEA proteins from the brine shrimp <i>Artemia franciscana</i>â€” anhydrobiosis meets bioinformatics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3291-3309.	3.5	23
18	Development of a high-performance ultrasonic flow system for cell transformation. , 2018, , .		0

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19	Calorespirometry: A Powerful, Noninvasive Approach to Investigate Cellular Energy Metabolism. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
20	Role of Intrinsic Disorder in Animal Desiccation Tolerance. <i>Proteomics</i> , 2018, 18, e1800067.	2.2	34
21	Effect of trehalose as an additive to dimethyl sulfoxide solutions on ice formation, cellular viability, and metabolism. <i>Cryobiology</i> , 2017, 75, 134-143.	0.7	33
22	Reduced Mitochondrial Efficiency Explains Mismatched Growth and Metabolic Rate at Supraoptimal Temperatures. <i>Physiological and Biochemical Zoology</i> , 2017, 90, 294-298.	1.5	14
23	Modulation of cellular energetics by galactose and pioglitazone. <i>Cell and Tissue Research</i> , 2017, 369, 641-646.	2.9	9
24	Expression, purification, and characterization of an intrinsically disordered Late Embryogenesis Abundant (LEA) protein from <i>Artemia franciscana</i> utilizing <i>Escherichia coli</i> and <i>Nicotiana tabacum</i> . <i>FASEB Journal</i> , 2017, 31, 914.3.	0.5	1
25	Tradeoffs of warm adaptation in aquatic ectotherms: Live fast, die young?. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 191, 209-215.	1.8	12
26	Physiological performance of warm-adapted marine ectotherms: Thermal limits of mitochondrial energy transduction efficiency. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 191, 216-225.	1.8	8
27	Molecular approaches for improving desiccation tolerance: insights from the brine shrimp <i>Artemia franciscana</i> . <i>Planta</i> , 2015, 242, 379-388.	3.2	34
28	Protective effects of osmolytes in cryopreserving adherent neuroblastoma (Neuro-2a) cells. <i>Cryobiology</i> , 2015, 71, 472-480.	0.7	33
29	Group 3 Late Embryogenesis Abundant Proteins from Embryos of <i>Artemia franciscana</i> : Structural Properties and Protective Abilities during Desiccation. <i>Physiological and Biochemical Zoology</i> , 2014, 87, 640-651.	1.5	35
30	Cryopreservation of hepatocyte (HepG2) cell monolayers: Impact of trehalose. <i>Cryobiology</i> , 2014, 69, 281-290.	0.7	43
31	Genetic engineering, a hope for sustainable biofuel production: review. <i>Journal of Chitwan Medical College</i> , 2014, 3, 311-323.	0.2	9
32	Mitochondrial energetics of benthic and pelagic Antarctic teleosts. <i>Marine Biology</i> , 2013, 160, 2813-2823.	1.5	8
33	Metabolic preconditioning of mammalian cells: mimetic agents for hypoxia lack fidelity in promoting phosphorylation of pyruvate dehydrogenase. <i>Cell and Tissue Research</i> , 2013, 351, 99-106.	2.9	18
34	Improved tolerance to salt and water stress in <i>Drosophila melanogaster</i> cells conferred by late embryogenesis abundant protein. <i>Journal of Insect Physiology</i> , 2013, 59, 377-386.	2.0	37
35	Identification of Disulfide Bond Formation between MitoNEET and Glutamate Dehydrogenase 1. <i>Biochemistry</i> , 2013, 52, 8969-8971.	2.5	19
36	Late embryogenesis abundant proteins protect human hepatoma cells during acute desiccation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20859-20864.	7.1	92

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37	Trehalose transporter from African chironomid larvae improves desiccation tolerance of Chinese hamster ovary cells. <i>Cryobiology</i> , 2012, 64, 91-96.	0.7	34
38	Long-Term Survival of Anoxia Despite Rapid ATP Decline in Embryos of the Annual Killifish <i>Austrofundulus limnaeus</i> . <i>Journal of Experimental Zoology</i> , 2012, 317, 524-532.	1.2	21
39	LEA Proteins During Water Stress: Not Just for Plants Anymore. <i>Annual Review of Physiology</i> , 2011, 73, 115-134.	13.1	359
40	Metabolic restructuring during energy-limited states: Insights from <i>Artemia franciscana</i> embryos and other animals. <i>Journal of Insect Physiology</i> , 2011, 57, 584-594.	2.0	73
41	A Spin-Drying Technique for Lyopreservation of Mammalian Cells. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1582-1591.	2.5	32
42	Cryopreservation of Spin-Dried Mammalian Cells. <i>PLoS ONE</i> , 2011, 6, e24916.	2.5	12
43	Choline Chloride Improves the Desiccation Tolerance of Chinese Hamster Ovary Cells. , 2010, , .		0
44	Mechanisms of apoptosis in Crustacea: what conditions induce versus suppress cell death?. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 293-312.	4.9	70
45	Metabolic preconditioning of cells with AICAR-riboside: Improved cryopreservation and cell-type specific impacts on energetics and proliferation. <i>Cryobiology</i> , 2010, 61, 79-88.	0.7	28
46	Occurrence of Mitochondria-targeted Late Embryogenesis Abundant (LEA) Gene in Animals Increases Organelle Resistance to Water Stress. <i>Journal of Biological Chemistry</i> , 2009, 284, 10714-10719.	3.4	64
47	How do animal mitochondria tolerate water stress?. <i>Communicative and Integrative Biology</i> , 2009, 2, 428-430.	1.4	13
48	Thermodynamics of effector binding to hemocyanin: Influence of temperature. <i>Archives of Biochemistry and Biophysics</i> , 2009, 483, 37-44.	3.0	6
49	Desiccation Kinetics and Biothermodynamics of Glass Forming Trehalose Solutions in Thin Films. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1428-1439.	2.5	8
50	Mitochondria in energy-limited states: mechanisms that blunt the signaling of cell death. <i>Journal of Experimental Biology</i> , 2008, 211, 1829-1840.	1.7	68
51	Caspase activity during cell stasis: avoidance of apoptosis in an invertebrate extremophile, <i>Artemia franciscana</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R2039-R2047.	1.8	18
52	Life without water: expression of plant LEA genes by an anhydrobiotic arthropod. <i>Journal of Experimental Zoology</i> , 2007, 307A, 62-66.	1.2	84
53	Trehalose uptake through P2X7 purinergic channels provides dehydration protection. <i>Cryobiology</i> , 2006, 52, 114-127.	0.7	65
54	Depression of cell metabolism and proliferation by membrane-permeable and -impermeable modulators: role for AMP-to-ATP ratio. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R501-R510.	1.8	36

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55	Cryopreservation of Human Hematopoietic Stem and Progenitor Cells Loaded with Trehalose: Transient Permeabilization via the Adenosine Triphosphate-Dependent P2Z Receptor Channel. <i>Cell Preservation Technology</i> , 2005, 3, 212-222.	0.6	30
56	Mitochondrial permeability transition in the crustacean <i>Artemia franciscana</i> : absence of a calcium-regulated pore in the face of profound calcium storage. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R68-R76.	1.8	61
57	Allosteric Models for Multimeric Proteins: Oxygen-Linked Effector Binding in Hemocyanin. <i>Biochemistry</i> , 2005, 44, 10328-10338.	2.5	25
58	Trehalose loading through the mitochondrial permeability transition pore enhances desiccation tolerance in rat liver mitochondria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1717, 21-26.	2.6	31
59	Binding of Urate and Caffeine to Hemocyanin of the Lobster <i>Homarus vulgaris</i> (E.) As Studied by Isothermal Titration Calorimetry. <i>Biochemistry</i> , 2000, 39, 10806-10811.	2.5	18