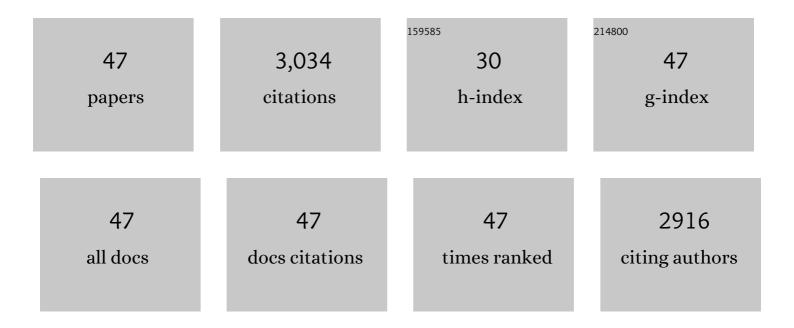
Wolfgang Nitschke

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Aqueous electrochemistry: The toolbox for life's emergence from redox disequilibria. Electrochemical Science Advances, 2023, 3, . | 2.8 | 7 |
| 2 | Mineralogy, geochemistry and occurrences of fougerite in a modern hydrothermal system and its implications for the origin of life. Earth-Science Reviews, 2022, 225, 103910. | 9.1 | 11 |
| 3 | Phylogenetic and functional diversity of aldehyde-alcohol dehydrogenases in microalgae. Plant Molecular Biology, 2021, 105, 497-511. | 3.9 | 4 |
| 4 | The dyad of the Y-junction- and a flavin module unites diverse redox enzymes. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148401. | 1.0 | 10 |
| 5 | Hybrid cluster proteins in a photosynthetic microalga. FEBS Journal, 2020, 287, 721-735. | 4.7 | 13 |
| 6 | Structural evidence for a reaction intermediate mimic in the active site of a sulfite dehydrogenase. Chemical Communications, 2020, 56, 9850-9853. | 4.1 | 1 |
| 7 | The controversy on the ancestral arsenite oxidizing enzyme; deducing evolutionary histories with phylogeny and thermodynamics. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148252. | 1.0 | 4 |
| 8 | On the why's and how's of clay minerals' importance in life's emergence. Applied Clay Science, 2020, 195, 105737. | 5.2 | 21 |
| 9 | Fougerite: the not so simple progenitor of the first cells. Interface Focus, 2019, 9, 20190063. | 3.0 | 25 |
| 10 | Energetics of the exchangeable quinone, Q _B , in Photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19458-19463. | 7.1 | 48 |
| 11 | Carbon Fixation: "Let Things Flow Naturally Forward inÂWhatever Way They Like― Current Biology, 2018, 28, R110-R112. | 3.9 | 2 |
| 12 | On the Natural History of Flavin-Based Electron Bifurcation. Frontiers in Microbiology, 2018, 9, 1357. | 3.5 | 58 |
| 13 | Crystal structure and redox properties of a novel cyanobacterial heme protein with a His/Cys heme axial ligation and a Per-Arnt-Sim (PAS)-like domain. Journal of Biological Chemistry, 2017, 292, 9599-9612. | 3.4 | 14 |
| 14 | Concerted Up-regulation of Aldehyde/Alcohol Dehydrogenase (ADHE) and Starch in Chlamydomonas reinhardtii Increases Survival under Dark Anoxia. Journal of Biological Chemistry, 2017, 292, 2395-2410. | 3.4 | 26 |
| 15 | Methane: Fuel or Exhaust at the Emergence of Life?. Astrobiology, 2017, 17, 1053-1066. | 3.0 | 54 |
| 16 | From low- to high-potential bioenergetic chains: Thermodynamic constraints of Q-cycle function. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1569-1579. | 1.0 | 44 |
| 17 | The obligate respiratory supercomplex from Actinobacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1705-1714. | 1.0 | 41 |
| 18 | The H-bond network surrounding the pyranopterins modulates redox cooperativity in the molybdenum- bis PGD cofactor in arsenite oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1353-1362. | 1.0 | 23 |

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|----|--|------|-----------|
| 19 | The Drive to Life on Wet and Icy Worlds. Astrobiology, 2014, 14, 308-343. | 3.0 | 232 |
| 20 | Free energy conversion in the LUCA: Quo vadis?. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 982-988. | 1.0 | 20 |
| 21 | Evidence for arsenic metabolism and cycling by microorganisms 2.7 billion years ago. Nature Geoscience, 2014, 7, 811-815. | 12.9 | 100 |
| 22 | Beating the acetyl coenzyme A-pathway to the origin of life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120258. | 4.0 | 110 |
| 23 | The inevitable journey to being. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120254. | 4.0 | 110 |
| 24 | On the universal core of bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 79-93. | 1.0 | 153 |
| 25 | Arsenics as bioenergetic substrates. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 176-188. | 1.0 | 105 |
| 26 | On the antiquity of metalloenzymes and their substrates in bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 871-881. | 1.0 | 121 |
| 27 | <i>Chlamydomonas reinhardtii</i> Chloroplasts Contain a Homodimeric Pyruvate:Ferredoxin Oxidoreductase That Functions with FDX1 Â Â. Plant Physiology, 2012, 161, 57-71. | 4.8 | 39 |
| 28 | The ineluctable requirement for the trans-iron elements molybdenum and/or tungsten in the origin of life. Scientific Reports, 2012, 2, 263. | 3.3 | 92 |
| 29 | Redox bifurcations: Mechanisms and importance to life now, and at its origin. BioEssays, 2012, 34, 106-109. | 2.5 | 135 |
| 30 | The Small Subunit AroB of Arsenite Oxidase. Journal of Biological Chemistry, 2010, 285, 20442-20451. | 3.4 | 40 |
| 31 | Menaquinone as pool quinone in a purple bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8549-8554. | 7.1 | 107 |
| 32 | Was nitric oxide the first deep electron sink?. Trends in Biochemical Sciences, 2009, 34, 9-15. | 7.5 | 148 |
| 33 | Hydrothermal Focusing of Chemical and Chemiosmotic Energy, Supported by Delivery of Catalytic Fe, Ni, Mo/W, Co, S and Se, Forced Life to Emerge. Journal of Molecular Evolution, 2009, 69, 481-496. | 1.8 | 117 |
| 34 | Enzyme phylogenies as markers for the oxidation state of the environment: The case of respiratory arsenate reductase and related enzymes. BMC Evolutionary Biology, 2008, 8, 206. | 3.2 | 97 |
| 35 | The ci/bH moiety in the b6f complex studied by EPR: A pair of strongly interacting hemes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 519-524. | 7.1 | 53 |
| 36 | The Rieske Protein: A Case Study on the Pitfalls of Multiple Sequence Alignments and Phylogenetic Reconstruction. Molecular Biology and Evolution, 2006, 23, 1180-1191. | 8.9 | 63 |

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|----|---|-----|-----------|
| 37 | Structural and Functional Characterization of the Unusual Triheme Cytochrome Bound to the Reaction Center of Rhodovulum sulfidophilum. Journal of Biological Chemistry, 2004, 279, 26090-26097. | 3.4 | 23 |
| 38 | NO Binding and Dynamics in Reduced Hemeâ^'Copper Oxidasesaa3fromParacoccus denitrificansandba3fromThermus thermophilusâ€. Biochemistry, 2004, 43, 14118-14127. | 2.5 | 20 |
| 39 | [NiFe] hydrogenases from the hyperthermophilic bacterium Aquifex aeolicus: properties, function, and phylogenetics. Extremophiles, 2003, 7, 145-157. | 2.3 | 111 |
| 40 | The redox protein construction kit: pre-last universal common ancestor evolution of energy-conserving enzymes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 267-274. | 4.0 | 132 |
| 41 | Arsenite Oxidase, an Ancient Bioenergetic Enzyme. Molecular Biology and Evolution, 2003, 20, 686-693. | 8.9 | 161 |
| 42 | Early Evolution of Cytochrome bc Complexes. Journal of Molecular Biology, 2000, 300, 663-675. | 4.2 | 164 |
| 43 | Redox Components of Cytochrome bc-type Enzymes in Acidophilic Prokaryotes. Journal of Biological Chemistry, 1999, 274, 16760-16765. | 3.4 | 34 |
| 44 | Diversity of Cytochrome <i>bc</i> Complexes: Example of the Rieske Protein in Green Sulfur Bacteria. Journal of Bacteriology, 1998, 180, 3719-3723. | 2.2 | 31 |
| 45 | Cyclic Electron Transfer in Heliobacillus mobilis Involving a Menaquinol-Oxidizing Cytochrome bc Complex and an RCI-Type Reaction Center. Biochemistry, 1997, 36, 4203-4211. | 2.5 | 50 |
| 46 | Characterization of the Unbound 2[Fe4S4]-Ferredoxin-Like Photosystem I Subunit PsaC from the Cyanobacterium Synechococcus elongatus. Biochemistry, 1997, 36, 13629-13637. | 2.5 | 23 |
| 47 | Evidence for a unique Rieske iron-sulphur centre in Heliobacterium chlorum. FEBS Letters, 1990, 261, 427-430. | 2.8 | 37 |