Resource Summary Report

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ORCA

RRID:SCR_012097
Type: Tool

Proper Citation

ORCA (RRID:SCR_012097)

Resource Information

URL: http://sourceforge.net/projects/exorca/

Proper Citation: ORCA (RRID:SCR_012097)

Description: A Matlab package extending the scope of established COBRA metabolic modelling.

Resource Type: software resource

Defining Citation: PMID:24336807

Keywords: software package, matlab

Funding:

Availability: Free for academic use

Resource Name: ORCA

Resource ID: SCR_012097

Alternate IDs: OMICS_05191

Record Creation Time: 20220129T080308+0000

Record Last Update: 20250420T014606+0000

Ratings and Alerts

No rating or validation information has been found for ORCA.

No alerts have been found for ORCA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1047 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Kehl A, et al. (2025) Frequency and time domain 19F ENDOR spectroscopy: role of nuclear dipolar couplings to determine distance distributions. Physical chemistry chemical physics : PCCP, 27(3), 1415.

Nová?ek M, et al. (2025) PM6-ML: The Synergy of Semiempirical Quantum Chemistry and Machine Learning Transformed into a Practical Computational Method. Journal of chemical theory and computation, 21(2), 678.

Sugimori R, et al. (2025) Stacked-ring aromaticity from the viewpoint of the effective number of ?-electrons. Chemical science, 16(4), 1707.

Yang C, et al. (2025) A multifunctional quasi-solid-state polymer electrolyte with highly selective ion highways for practical zinc ion batteries. Nature communications, 16(1), 183.

Wang W, et al. (2025) Metal-free production of natural blue colorants through anthocyanin-protein interactions. Journal of advanced research, 68, 17.

Urrutia-Ortega IM, et al. (2025) Full-spectrum cannabidiol reduces UVB damage through the inhibition of TGF-?1 and the NLRP3 inflammasome. Photochemistry and photobiology, 101(1), 83.

Finelli V, et al. (2025) Synthesis of a mixed-linker Ce-UiO-67 metal-organic framework. RSC applied interfaces, 2(1), 130.

Pu Y, et al. (2025) Sulfur-locked multiple resonance emitters for high performance orange-red/deep-red OLEDs. Nature communications, 16(1), 332.

Jhun BH, et al. (2025) The degradation mechanism of multi-resonance thermally activated delayed fluorescence materials. Nature communications, 16(1), 392.

Gutiérrez-Muñoz C, et al. (2025) Annexin A8 deficiency delays atherosclerosis progression. Clinical and translational medicine, 15(1), e70176.

Swift SJ, et al. (2025) A SIFT Study of Reactions of Positive and Negative Ions With Polyfluoroalkyl (PFAS) Molecules in Dry and Humid Nitrogen at 393?K. Rapid communications in mass spectrometry : RCM, 39(6), e9975.

Paiva P, et al. (2025) Unveiling the enzymatic pathway of UMG-SP2 urethanase: insights into polyurethane degradation at the atomic level. Chemical science, 16(5), 2437.

Montenegro-Pohlhammer N, et al. (2025) Mechanisms for the Spin-State Switching of Strapped Ni-Porphyrin Complexes Deposited on Metal Surfaces: Insights from Quantum Chemical Calculations. Small (Weinheim an der Bergstrasse, Germany), 21(2), e2406313.

Jin PB, et al. (2025) Rare earth benzene tetraanion-bridged amidinate complexes. Chemical science, 16(4), 1907.

Barchenko M, et al. (2025) Biomimetic [MFe3S4]3+ Cubanes (M = V/Mo) as Catalysts for a Fischer-Tropsch-like Hydrocarbon Synthesis?A Computational Study. Inorganic chemistry, 64(1), 479.

Yin C, et al. (2025) Ultra-low power-consumption OLEDs via phosphor-assisted thermally-activated-delayed-fluorescence-sensitized narrowband emission. Nature communications, 16(1), 30.

Bo?a R, et al. (2025) Quantum chemical study of molecular properties of small branched-chain amino acids in water. Amino acids, 57(1), 11.

Repina OV, et al. (2025) AuIII Acyclic (Amino)(N-Pyridinium)carbenoids: Synthesis via Addition of 2-PySeCl to AuI-Bound Isonitriles, Structures, and Cytotoxicity. International journal of molecular sciences, 26(2).

Takeyama T, et al. (2025) A Series of AnVIO22+ Complexes (An = U, Np, Pu) with N3O2-Donating Schiff-Base Ligands: Systematic Trends in the Molecular Structures and Redox Behavior. Inorganic chemistry, 64(3), 1313.

Yin ZB, et al. (2025) Construction of N-E bonds via Lewis acid-promoted functionalization of chromium-dinitrogen complexes. Nature communications, 16(1), 674.