# Resource Summary Report

Generated by T1D on Aug 1, 2026

## 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

**Availability:** Free for academic use

**Resource Name:** ORCA

**Resource ID:** SCR_012097

**Alternate IDs:** OMICS_05191

**Record Creation Time:** 20220129T080308+0000

**Record Last Update:** 20260725T190731+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 1315 mentions in open access literature.

**Listed below are recent publications.** The full list is available at T1D .


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 C, et al. (2025) Metal-Catalyzed Abiotic Cleavage of C?C Bonds for Effective Fluorescence Imaging of Cu(II) and Fe(III) in Living Systems. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(8), e2412407.

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

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.

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.

Sun W, et al. (2025) Unraveling the Stereoisomer Configurations of 1,1'-bis(tert-butylphosphino)Ferrocene in the Gas Phase. Chemphyschem : a European journal of chemical physics and physical chemistry, 26(5), e202400881.

Liu Y, et al. (2025) Quantum Mechanics MP2 and CASSCF Study of Coordinate Quasi-Double Bonds in Cobalt(II) Complexes as Single Molecule Magnets. Nanomaterials (Basel, Switzerland), 15(12).

Barp M, et al. (2025) Quantifying hexafluoroisopropanol's hydrogen bond donor ability: infrared photodissociation spectroscopy of halide anion HFIP complexes. Chemical science, 16(12), 5174.

Murton PDF, et al. (2025) Blue-light photodegradation of ferricyanide under protein relevant conditions. Dalton transactions (Cambridge, England : 2003), 54(11), 4735.

Chen L, et al. (2025) MORE-Q, a dataset for molecular olfactorial receptor engineering by quantum mechanics. Scientific data, 12(1), 324.

Rejnhardt P, et al. (2025) Symmetrization of Strong Hydrogen Bond under High Pressure in Bihydroxide-Ion-Containing NaCu2(SO4)2·H3O2 Revealed by Experimental Charge Density, Single-Crystal Electron Diffraction, and Neutron Diffraction Studies. Journal of the American Chemical Society, 147(30), 26830.

Cai DQ, et al. (2025) A Synchronous Strategy to Zn-Iodine Battery by Polycationic Long-Chain Molecules. Nano-micro letters, 18(1), 3.

Irham LM, et al. (2025) Deciphering anti-colorectal cancer potential of Avicennia alba bioactives via network pharmacology and in vitro validation. Scientific reports, 15(1), 27976.

Sun X, et al. (2025) Reproducibility of QM/MM Calculations for the SARS-CoV-2 Main Protease. Journal of chemical theory and computation, 21(15), 7711.

Cheregi MC, et al. (2025) Curcumin Electroanalysis at a Disposable Graphite Electrode. Biosensors, 15(3).

Chen L, et al. (2025) Manipulating Interfacial Stability via Preferential Absorption for Highly Stable and Safe 4.6 V LiCoO2 Cathode. Nano-micro letters, 17(1), 181.

F?st?kç? M, et al. (2025) Revisiting Reaction Mechanism of Regioselective Disulfide-Catalyzed Photocatalytic Aerobic Oxidative Cleavage of 1-Arylbutadienes: A Computational Study. Chemphyschem : a European journal of chemical physics and physical chemistry, 26(11), e202401004.

Chen Q, et al. (2025) Manipulating perovskite structural asymmetry for high-performing self-powered full-stokes polarimetry. Science advances, 11(9), eads6123.

Fiorucci L, et al. (2025) Not Just Another Crystal Field Software. Journal of computational chemistry, 46(6), e70063.

Piccolo D, et al. (2025) Luminescent Manganese(II) Iminophosphorane Derivatives. Molecules (Basel, Switzerland), 30(6).