

Resource Summary Report

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[Ratan-lab \(SUMO\)](#)

RRID:SCR_025687

Type: Tool

Proper Citation

Ratan-lab (SUMO) (RRID:SCR_025687)

Resource Information

URL: <https://github.com/ratan-lab/sumo>

Proper Citation: Ratan-lab (SUMO) (RRID:SCR_025687)

Description: Software for multiomic nonnegative matrix factorization.

Abbreviations: SUMO

Resource Type: source code, software resource

Defining Citation: [DOI:10.1016/j.crmeth.2021.100152](https://doi.org/10.1016/j.crmeth.2021.100152)

Keywords: multiomic nonnegative matrix factorization, matrix factorization

Availability: Free, Available for download, Freely available,

Resource Name: Ratan-lab (SUMO)

Resource ID: SCR_025687

License: MIT license

Record Creation Time: 20240903T053254+0000

Record Last Update: 20260810T040850+0000

Ratings and Alerts

No rating or validation information has been found for Ratan-lab (SUMO).

No alerts have been found for Ratan-lab (SUMO).

Data and Source Information

Usage and Citation Metrics

We found 42 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Gutiérrez-Moreno R, et al. (2026) A Curriculum Approach to Reduce the Dynamics-Related Reality Gap in Autonomous Driving Decision-Making. *Sensors* (Basel, Switzerland), 26(12).

Pérez Castro G, et al. (2026) Microscopic simulation of free riding speed dynamics in bicycle traffic: Modeling heterogeneous context-dependent effects. *PloS one*, 21(6), e0351469.

Zhang H, et al. (2026) Graph transformer Q-network for collaborative governance and decentralized decision-making in multi-intersection networks. *Scientific reports*, 16(1).

Ling Z, et al. (2026) Crystalline Dion-Jacobson 2D Layered Sn-Based Perovskites for Field-Effect Transistors. *Journal of the American Chemical Society*, 148(12), 12764.

Al-Momani SS, et al. (2026) A Landscape Analysis of Human SUMOylation. *Molecular & cellular proteomics : MCP*, 25(5), 101571.

Watkins AK, et al. (2026) Metallic Oxides and the Overlooked Role of Bandwidth. *Chemistry of materials : a publication of the American Chemical Society*, 38(4), 1551.

Li M, et al. (2025) Federated deep reinforcement learning-based urban traffic signal optimal control. *Scientific reports*, 15(1), 11724.

Chang Q, et al. (2025) Impacts of autonomous vehicles on freeway with conditional isolated and dedicated lanes. *Scientific reports*, 15(1), 21374.

Sun L, et al. (2025) CAV1 Exacerbates Renal Tubular Epithelial Cell Senescence by Suppressing CaMKK2/AMPK-Mediated Autophagy. *Aging cell*, 24(5), e14501.

Delaforge E, et al. (2025) Allovalent scavenging of activation domains in the transcription factor ANAC013 gears transcriptional regulation. *Nucleic acids research*, 53(4).

Wang Y, et al. (2025) Impact of regional driving behavior differences on traffic flow. *Scientific reports*, 15(1), 9027.

Oda K, et al. (2025) Molecular basis of IFN- γ -induced STAT3 phosphorylation stimulated by Sendai virus C protein. *The Journal of biological chemistry*, 301(11), 110744.

Huang Z, et al. (2025) De Novo Biosynthesis of Antidepressant Psilocybin in *Escherichia coli*. *Microbial biotechnology*, 18(4), e70135.

Shen J, et al. (2025) Intersection passing strategies for human-driven and autonomous vehicles in mixed traffic using DEA. *PloS one*, 20(4), e0321566.

Gorodetska I, et al. (2025) Blood-based detection of MMP11 as a marker of prostate cancer progression regulated by the ALDH1A1-TGF- β 1 signaling mechanism. *Journal of experimental & clinical cancer research* : CR, 44(1), 105.

He Y, et al. (2025) Traffic safety evaluation of emerging mixed traffic flow at freeway merging area considering driving behavior. *Scientific reports*, 15(1), 10686.

Gao Z, et al. (2025) Vehicle-to-everything decision optimization and cloud control based on deep reinforcement learning. *Scientific reports*, 15(1), 29160.

Kahya U, et al. (2025) Disruption of glutamine transport uncouples the NUPR1 stress-adaptation program and induces prostate cancer radiosensitivity. *Cell communication and signaling* : CCS, 23(1), 351.

Saar D, et al. (2025) The Myotubularin Related Proteins and the Untapped Interaction Potential of Their Disordered C-Terminal Regions. *Proteins*, 93(4), 831.

Baker CNS, et al. (2025) Proline variants in the BRCA1 coiled-coil domain disrupt folding and binding to PALB2. *Protein science : a publication of the Protein Society*, 34(1), e5240.