

Resource Summary Report

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COMSOL Multiphysics

RRID:SCR_014767

Type: Tool

Proper Citation

COMSOL Multiphysics (RRID:SCR_014767)

Resource Information

URL: <https://www.comsol.com/comsol-multiphysics>

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Description: General-purpose software platform for modeling and simulating physics-based problems which accounts for coupled or multiphysics phenomena. The platform includes a set of core physics interfaces for common physics application areas such as structural analysis, laminar flow, pressure acoustics, transport of diluted species, electrostatics, electric currents, heat transfer, and Joule heating.

Resource Type: simulation software, software application, software resource

Keywords: simulation software, software platform, physics, problem solver

Availability: Commercially available

Resource Name: COMSOL Multiphysics

Resource ID: SCR_014767

License URLs: <https://www.comsol.com/company/privacy/>

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Ratings and Alerts

No rating or validation information has been found for COMSOL Multiphysics.

No alerts have been found for COMSOL Multiphysics.

Data and Source Information

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Cai W, et al. (2026) Comprehensive Numerical and Experimental Investigations on Endolaryngeal Mobilization. *Laryngoscope investigative otolaryngology*, 11(2), e70419.

Savvateev I, et al. (2026) Multipair phase-modulated temporal interference electrical stimulation combined with fMRI. *Cell systems*, 17(7), 101610.

Schwab KH, et al. (2026) Simple 3D-printed stirred bioreactor enhances retinal organoid production via improved oxygenation. *Cell reports methods*, 101500.

Nguyen S, et al. (2026) Fluoroscopic control of a magnetorobotic capsule for precision gastrointestinal sampling and delivery. *iScience*, 29(3), 115007.

Kremneva E, et al. (2026) Precision tumor-on-chip for personalized assessment of drug efficacy and immune cell delivery. *Cell reports methods*, 101475.

Robinson MJ, et al. (2026) N-of-1 tissue activation modeling reveals regional subthalamic stimulation predicting verbal fluency decline in Parkinson disease. *Journal of neural transmission (Vienna, Austria : 1996)*, 133(7), 1471.

Hao WQ, et al. (2026) Lithium dendrite inhibition effect induced by nucleation parameters based on the mechanical-thermo-electrochemical coupling model. *iScience*, 29(2), 114740.

Mahbub TB, et al. (2025) Automated Platforms in C. elegans Research: Integration of Microfluidics, Robotics, and Artificial Intelligence. *Micromachines*, 16(10).

Nia HT, et al. (2025) Solid Stress Estimations via Intraoperative 3D Navigation in Patients with Brain Tumors. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(16), 3571.

Cl  men  on P, et al. (2025) Perception of aerodynamical looming stimuli. *Current biology : CB*, 35(22), 5560.

Uppinakudru AP, et al. (2024) Comparison of radiant intensity in aqueous media using experimental and numerical simulation techniques. *Open research Europe*, 4, 18.

Borawski A, et al. (2024) The Possibility of Using Components of Plant Origin as Reinforcements in Composite Friction Materials-A Simulation-Based Braking Process Study. *Materials (Basel, Switzerland)*, 17(23).

Singh VK, et al. (2024) Integration Approaches to Model Bioreactor Hydrodynamics and Cellular Kinetics for Advancing Bioprocess Optimisation. *Bioengineering (Basel, Switzerland)*, 11(6).

Aronne M, et al. (2024) 3D-Printed MEMS in Italy. *Micromachines*, 15(6).

Dias T, et al. (2024) An electro-optical platform for the ultrasensitive detection of small extracellular vesicle sub-types and their protein epitope counts. *iScience*, 27(6), 109866.

Baek J, et al. (2024) All-dielectric polarization-sensitive metasurface for terahertz polarimetric imaging. *Scientific reports*, 14(1), 7544.

Zhang Y, et al. (2024) Penetrating the ultra-tough yeast cell wall with finite element analysis model-aided design of microtools. *iScience*, 27(4), 109503.

Sagalajev B, et al. (2024) Absence of paresthesia during high-rate spinal cord stimulation reveals importance of synchrony for sensations evoked by electrical stimulation. *Neuron*, 112(3), 404.

England SJ, et al. (2023) Static electricity passively attracts ticks onto hosts. *Current biology : CB*, 33(14), 3041.

Peng R, et al. (2023) In-depth understanding of boosting salinity gradient power generation by ionic diode. *iScience*, 26(7), 107184.