Resource Summary Report

Generated by Kravitz on Sep 10, 2026

IMAGIC

RRID:SCR_014447
Type: Tool

Proper Citation

IMAGIC (RRID:SCR_014447)

Resource Information

URL: https://www.imagescience.de/imagic.html

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Description: An image analysis software that can process spectra and other multi-dimensional data-sets. The software package is aimed at processing large data sets from (cryo-) electron microscopy, especially in the field of single particle analyses. This software can be used with light and raster-tunneling microscopes, computer tomographs, FT-IR spectrometers and other signal collecting devices. This resource provides three-dimensional data processing and angular reconstitution modules that allow the three-dimensional reconstruction with point-group symmetry from the two dimensional electron microscopy projections. These models aid in the analysis of the macromolecules.

Resource Type: data processing software, image analysis software, image processing software, software application, software resource

Defining Citation: PMID:8742718

Keywords: image analysis, spectra, multi-dimensional data, macromolecule, 3d processing, tomograph, spectrometer, software environment

Availability: Commercial, Account needed for download

Resource Name: IMAGIC

Resource ID: SCR_014447

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260905T132747+0000

Ratings and Alerts

No rating or validation information has been found for IMAGIC.

No alerts have been found for IMAGIC.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 217 mentions in open access literature.

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

Han KL, et al. (2025) Effect of Agaricus bisporus Stalk Replacement of Soybean on Productive Performance, Egg Quality and Intestinal Microbiota of Laying Hens. Veterinary medicine and science, 11(2), e70185.

Mercanti N, et al. (2024) Towards Sulphite-Free Winemaking: A New Horizon of Vinification and Maturation. Foods (Basel, Switzerland), 13(7).

Rohou A, et al. (2024) ?-Latrotoxin Tetramers Spontaneously Form Two-Dimensional Crystals in Solution and Coordinated Multi-Pore Assemblies in Biological Membranes. Toxins, 16(6).

Louro JA, et al. (2023) Nucleosome dyad determines the H1 C-terminus collapse on distinct DNA arms. Structure (London, England : 1993), 31(2), 201.

Wu A, et al. (2023) Ultrasound-Driven Piezoelectrocatalytic Immunoactivation of Deep Tumor. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 10(28), e2303016.

Thoms M, et al. (2023) Structural insights into coordinating 5S RNP rotation with ITS2 pre-RNA processing during ribosome formation. EMBO reports, 24(12), e57984.

Yao X, et al. (2022) Acid-Degradable Hydrogen-Generating Metal-Organic Framework for Overcoming Cancer Resistance/Metastasis and Off-Target Side Effects. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 9(10), e2101965.

Ribeiro-Filho HV, et al. (2022) Structural dynamics of SARS-CoV-2 nucleocapsid protein induced by RNA binding. PLoS computational biology, 18(5), e1010121.

Scholz F, et al. (2021) A 3D Analysis of Dendritic Solidification and Mosaicity in Ni-Based Single Crystal Superalloys. Materials (Basel, Switzerland), 14(17).

Liu J, et al. (2021) Bacterial Vipp1 and PspA are members of the ancient ESCRT-III membrane-remodeling superfamily. Cell, 184(14), 3660.

Kamali-Jamil R, et al. (2021) The ultrastructure of infectious L-type bovine spongiform encephalopathy prions constrains molecular models. PLoS pathogens, 17(6), e1009628.

Ribeiro-Filho HV, et al. (2021) Cryo-EM structure of the mature and infective Mayaro virus at 4.4 Å resolution reveals features of arthritogenic alphaviruses. Nature communications, 12(1), 3038.

Huang Y, et al. (2021) A molecular mechanism for the generation of ligand-dependent differential outputs by the epidermal growth factor receptor. eLife, 10.

Steiner C, et al. (2021) Comparison of extraction sites versus artificial defects with xenogenic bone substitute in minipigs. Clinical and experimental dental research, 7(4), 490.

Jenni S, et al. (2020) Structure of the Vesicular Stomatitis Virus L Protein in Complex with Its Phosphoprotein Cofactor. Cell reports, 30(1), 53.

Ni T, et al. (2020) Structure and mechanism of bactericidal mammalian perforin-2, an ancient agent of innate immunity. Science advances, 6(5), eaax8286.

Castañeda AF, et al. (2020) The gammaherpesviral TATA-box-binding protein directly interacts with the CTD of host RNA Pol II to direct late gene transcription. PLoS pathogens, 16(9), e1008843.

Dini I, et al. (2020) Validation of Rapid Enzymatic Quantification of Acetic Acid in Vinegar on Automated Spectrophotometric System. Foods (Basel, Switzerland), 9(6).

Schade B, et al. (2020) Stereochemistry-Controlled Supramolecular Architectures of New Tetrahydroxy-Functionalised Amphiphilic Carbocyanine Dyes. Chemistry (Weinheim an der Bergstrasse, Germany), 26(30), 6919.

Rozbesky D, et al. (2020) Structural basis of semaphorin-plexin cis interaction. The EMBO journal, 39(13), e102926.