Best Crystallography Software Platform 2022: Crystal Studio

Award-winning Crystal Software Pty Ltd, based in Australia, is renowned the world over for its innovative software which further enables the study of crystallography. We profile the company and look at how the platform is aiding scientists, universities, and organisations across the globe in the wake of it being recognized in the Research and Development Awards 2022.

Crystallography is the science that examines crystals which can be found everywhere in nature – from salt to snowflakes to gemstones. They are part of a cadre of interdisciplinary scientists that work to understand diverse processes. Crystallographers use the properties and inner structures of crystals to determine the arrangement of atoms and generate knowledge that is used by chemists, physicists, biologists, and others.

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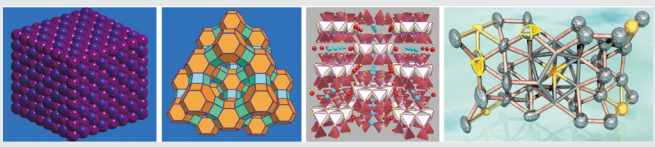
The new Quantum edition is implemented with first principle simulation capability meaning calculations of material properties can be easily performed and all that is needed is just a few mouse clicks to start the simulation and wait for the results to be displayed.



The programme presents an ideal tool for research and teaching in crystallography, materials science, solid state chemistry and physics, mineralogy, nano sciences, geology, biochemistry, and other fields related with crystal and molecular structures.

Widely used by many famous institutions and big companies around the world, Cystal Software can list the following among its customers: Harvard, Oxford, MIT, UC Berkeley, NIST, LLNL, ORNL, LANL, NASA, IBM, UTC, AMD, NEC, Matsushita, Hitachi, Mitsubishi, Cannon, Fujitsu, Nissan, Toyota, AIST, NIMS, RIKEN etc. Almost all universities and research institutions in Japan with STEM subjects or projects are using Crystal Studio and its pioneering software for their studies.

The main features of Crystal Studio are plenty and include 3D Crystal View, High Quality High Resolution 3D Graphics; 3D Molecular View, HQHR 3D Graphics; Nanotubes, Nanocones, Graphene Assembles and Nano Assembles; Assemblies of Crystal, Molecule and Nano Structures; Various Crystal Defects, Twins, Coherent Two Phase Assemblies; Various Real Materials Textures; Crystal Structure, Space Group and Elemental Properties Databases; Powder X-Ray, Neutron and Electron Diffraction Patterns for Single Crystals and Multi-Phase Mixtures; Zone Axis Electron Diffraction Patterns and Laue X-Ray Diffraction Patterns for Single Crystals and for Single Crystal Plus Twin or Coherent 2nd Phase; Reciprocal Lattices and Stereographic Projections for Single Crystals and for Single Crystal Plus Twin or Coherent 2nd Phase; HOLZs for ZAEDP and Reciprocal Lattices; 2D Lattice and 2D Reciprocal Lattice for RHEED analysis; and ABINIT First Principle Simulations for Electrical, Optical, Mechanical and Chemical Properties.

Recently, Crystal Software and its unique Crystal Studio Software have been recognised for the part it plays in the scientific world and rewarded with the title of Best Crystallography Software Platform 2022 in the Research and Development Awards 2022.

Contact Details
Company: Crystal Software Pty Ltd
Web Address: http://www.crystal0studio.com