PHILOSOPHICAL MAGAZINE

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From Bragg to the Ultrafast:
A Century of Crystallographic Revolution

Philosophical Magazine, in conjunction with guest advisors Professor Ding-Shyue (Jerry) Yang and Professor Ognjen Miljanić of the University of Houston (TX, USA), is pleased to announce a new Article Collection dedicated to advances in crystallography.

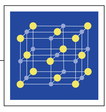
Crystallography has been a mainstay of scientific advancement for over a century...



1914

The Nobel Prize in Physics is awarded to Max von Laue "for his discovery of the diffraction of X-rays".

1915



The Nobel Prize in Physics is awarded to father-and-son duo Sir William Henry Bragg and William Lawrence Bragg "for their services in the analysis of crystal structure by means of X-rays".



1927

'The crystal structure of some of the alums' is published in *Philosophical Magazine*.

1930



'A note on the representation of crystal structure by Fourier series' is published in *Philosophical Magazine*.



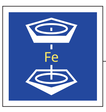
1941

William Lawrence Bragg becomes an editor of *Philosophical Magazine* and remains in the post until 1970.

1946



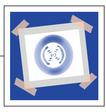
'Crystal habit and internal structure.—II' is published in *Philosophical Magazine*.



1952

Geoffrey Wilkinson and Ernst Otto Fischer reveal the structure of ferrocene; they later shared the 1973 Nobel Prize in Chemistry for this work.

1953



Rosalind Franklin and Raymond Gosling's 'Photograph 51' is published, elucidating the DNA double helix structure.



1957

'Electron diffraction from crystals containing stacking faults: I' is published in *Philosophical Magazine*.

2008



Dylan Jayatilaka and Birger Dittrich develop a quantum crystallography method called Hirshfeld Atom Refinement.



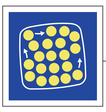
2010

'Cyclic deformation of polycrystalline Cu films' is published in *Philosophical Magazine*.

2011



'Hard' X-ray free-electron lasers are used to capture atomic structures at SLAC National Accelerator Laboratory.



2013

Makoto Fujita and colleagues develop the crystalline sponge method.

2015



'The Nobel Science: One Hundred Years of Crystallography' is published in *Interdisciplinary Science Reviews*.



2026

[Insert your paper here]. Submit to *Philosophical Magazine*'s Article Collection!

The aim of this collection is to showcase advancements in crystallography, and the wide range of applications and challenges that innovative methods can address. Suitable themes for submissions can include, but are not limited to:



Applications of emerging diffraction techniques



Instrumentation, methodology and technique developments



Quantum behaviours



Computational and theoretical crystallography



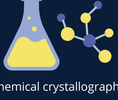
Materials science and engineering applications



Structural biology and protein crystallography



Medical crystallography



Chemical crystallography



Food science applications

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