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2010 : January 2010 - Fast Moving Fronts : Hoong-Kun Fun on Hydrazones

## FAST MOVING FRONTS - 2010

January 2010



Hoong-Kun Fun talks with *ScienceWatch.com* and answers a few questions about this month's Fast Moving Front Paper in the field of Chemistry. The author has also sent along images of his work.



### Article: 4-chloro-N'-(Z)-4-(dimethylamino)benzylidene] benzohydrazide monohydrate

Authors: Fun, HK; Patil, PS; Jebas, SR; Sujith, KV; Kalluraya, B  
Journal: ACTA CRYSTALLOGR E-STRUCT REP, 64: O1594-O1595  
Part 8 AUG 2008

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(addresses have been truncated.)

### SW: Why do you think your paper is highly cited?

This article is relatively highly cited because quite a large number of researchers are interested in the properties of hydrazones and their derivatives which includes antimicrobial, anticonvulsant, analgesic, anti-inflammatory, anti-platelet, anti-tubercular, anticancer, and anti-tumor activities. These materials are candidates for new drug development.

### SW: Does it describe a new discovery, methodology, or synthesis of knowledge? Would you summarize the significance of your paper in layman's terms?

This article reported a new hydrazone structure determined by single crystal structure determination and represents an international collaborative research effort of scientists from the Universiti Sains Malaysia in Penang, Malaysia, the Prince of Songkla University in Songkla, Thailand, and Mangalore University in Karnataka, India.

**Professor Hoong-Kun Fun, F.A.Sc.**

**X-ray Crystallography Unit**

**School of Physics**

**University of Science, Malaysia (USM)**

KEYWORDS: HYDRAZONES; DERIVATIVES; NEW DRUG DEVELOPMENT.



The plot and packing of this structure are given below:

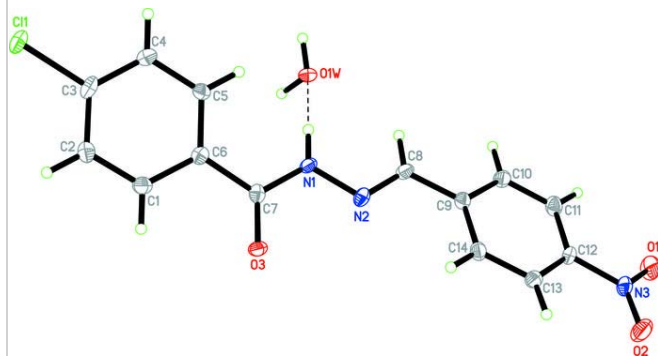


Fig. 1: The molecular structure of 4-chloro-*N*-[(*Z*)-4-nitrobenzylidene]benzohydrazide monohydrate

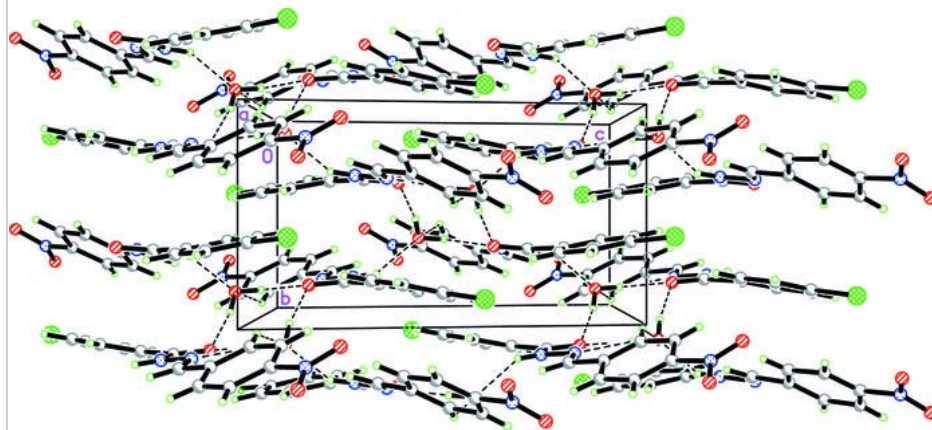


Fig. 2: The packing diagram viewed along the *a*-axis of 4-chloro-*N*-[(*Z*)-4-nitrobenzylidene]benzohydrazide monohydrate. Hydrogen bonds are shown as dash lines.

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