



## REVELATION AND SCIENCE

Inter-Disciplinary Journal of Intellectual Revival

Revelation and Science is a refereed academic journal published by the Kulliyah of Science, International Islamic University Malaysia (IIUM). The journal aims to comprehensively integrate dimensions of knowledge conventionally regarded as separate and strengthens the efficiency of human intellectual progress. In line with the objectives of the Kulliyah and the University, the journal is dedicated to the integration of science and religion, and the promotion of universal values. While acknowledging the substantial progress that has been made in the scientific fields, the journal is committed to the idea that the search for solutions to human predicaments can be enhanced by reference to an epistemological framework that is not restricted to reason and observation alone, but acknowledges the role of Revelation (wahy). The Revelation and Science journal covers theoretical and applied sciences as well as studies related to the integration of scientific knowledge and revelation. The journal is a compilation of academic and research articles, review articles, conference reports and abstracts that address contemporary issues within its scope.

---

### Editor-In-Chief

*Kamaruzzaman Yunus*

### Editor

*Abdulrezak Abdulahi Hashi*

### Associate Editors

*Torla Hassan*

*Mohammad Tariqur Rahman*

*Jesni Shamsul Shaari*

*Shafida Binti Abd Hamid*

### Copy Editors

*Phang Ing Chia*

*Rosliza Mohd Salim*

### Editorial Board

*Abdelouahab Chouikhi (Inter-Islamic Network on Oceanography, Turkey).*

*Ibrahim Mohamed Zein (IIUM, Malaysia).*

*Abdelaziz Berghout (IIUM, Malaysia).*

*Mohd. Kamal Hassan (IIUM, Malaysia).*

*Anis Ahmad (Riphah International Islamic University, Pakistan).*

*Wan Ahmad Tajuddin B. Wan A. (UM, Malaysia).*

*Essam M. Abulwafa (Mansoura University, Egypt).*

*Abd. Aziz Tajuddin (USM, Malaysia)*

*Yun-Hwa Peggy Hsieh (Florida State University, USA).*

*Chowdhury Rafiqul Ahsan (Dhaka University, Bangladesh).*

*Jamal Ahmed Bashier Badi (IIUM, Malaysia)*

*Sultan Ahmed Ismail (Ecoscience Research Foundation, India).*

*Hazizan Md. Noon (IIUM, Malaysia)*

*Mohammad Shafiur Rahman (Sultan Qaboos University, Oman).*

*Ibrahim Ahmad Shogar (IIUM, Malaysia)*

---

### Contact Address

Revelation and Science  
Kulliyah of Science  
International Islamic University Malaysia  
Bandar Indera Mahkota  
25200 Kuantan, Pahang  
MALAYSIA

**Tel:** (609) 571 6400

**Fax:** (609) 571 6781

**Email:** [revival@iium.edu.my](mailto:revival@iium.edu.my)

**Website:** [www.iium.edu.my/revival](http://www.iium.edu.my/revival)

**ISSN (Online) :** 2229-9947

**ISSN (Printed) :** 2229-9645

ISSN 2229-9947



9 772229 994002

---

Published by:  
IIUM Press, International Islamic University Malaysia  
P.O. Box 10, 50728 Kuala Lumpur, Malaysia  
Phone (+603) 6196-5014, Fax: (+603) 6196-6298  
Website: <http://iiumpress.iium.edu.my/bookshop>

Printed by:  
Naga Global Print (M) Sdn. Bhd.  
No. 1, Jalan Industri Batu Caves  
68100 Batu Caves, Selangor, Malaysia