# Faculty of Science

The Faculty of Science, which was first established as the Division of Basic Sciences in 1972, has been through several restructuring processes, and now consists of four departments: Department of Biology, Department of Chemistry, Department of Mathematics and Department of Physics. The faculty has been one of the largest recipients of research grants in the University and is striving to improve on its excellent record.

## A0624K
## Abd. Halim Shaari

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**Year of Appointment**: 1976

**Working Experience (As Academician)**: 36 years

**Qualifications**

- Malayan Teacher's Training College 1970
- B. Sc ( Hons) (Physics) Second Upper, National University of Malaysia 1976
- M. Sc ( Cryogenics') , University of Southampton, U.K 1978
- Ph. D ( Magnetic Materials) , University of Hull, U.K 1981

**Professional Affiliation(s)**

- Fellow, Academy of Sciences Malaysia (FASc)
- Fellow, Malaysian Solid State Science and Technology (MASS)
- Fellow, Institute of Physics Malaysia (IFM)
- Member of Islamic Academy of Science Malaysia (ASASI)
- Editor-in-Chief, Journal of Solid State Science and Technology, Malaysia
- Editor, Journal of Physics, Malaysia
- Editor, PERTANIKA JST
- Editor, Malaysian Journal of Mathematical Sciences
- Deputy President, Malaysian Solid State Science and Technology (MASS)
- Referee of many scientific papers for local and international journals

**Specialisation(s)**

- High Temperature Superconductors
- Magnetic and Non-magnetic Ceramics
- Magneto Resistive Thin Films For Sensors Applications

**Expertise**

- Superconductivity, Magnetism, Cryogenics and Material Science

## A01956
## Abdul Halim Abdullah

Prof. Madya Dr.
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**Year of Appointment**: 1999

**Working Experience (As Academician)**: 13 years

**Qualifications**

- B. Sc. in Chemistry (Second Class Upper Division)(University of New Brunswick,Canada)
- PhD in Catalysis (University of Dundee, Scotland, UK)

**Professional Affiliation(s)**

- Universiti Putra Malaysia (UPM)

**Specialisation(s)**

- Material & Catalysis Chemistry

**Expertise**

- Material & Catalysis Chemistry

## A03826
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**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualifications**

- B. Sc. (Hons)(Chemistry)(UPM); M Sc (Material Chemistry)(UPM); Ph.D (Nanomaterials & Nanotechnology)(UPM)

**Specialisation(s)**

- Material Chemistry & Nano Materials

**Expertise**

- Material Chemistry & Nano Materials

## A03467
## Adem Killicman
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**Year of Appointment**: 1990

**Working Experience (As Academician)**: 22 years

**Qualifications**
- B.Sc. Math. (Turkey)
- M. Pure Math. (Turkey)
- Ph.D. (UK)

**Professional Affiliation(s)**
- American Mathematical Society
- Zentralblatt Mathematics (Germany)
- Computing Review
- Malaysian Mathematical Soc.

**Specialisation(s)**
- Functional Analysis and Topology

**Expertise**
- Functional Analysis and Topology
- Distributions Theory and Generalized Functions
- Neutrix Calculus and its Applications
- Integral Transforms
- Special Functions and Differential Equations
- Difference and Integro-Differential Equations
- Convolution Algebras

A01051
## Ahmad Ismail
Prof. Dr.
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Faculty of Science
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**Year of Appointment**: 1987

**Working Experience (As Academician)**: 25 years

**Qualificatio:**
- Bacelor Sains Kepujian (Zoology) di UKM pada tahun 1980
- PhD (Ecotoxicology and Wildlife Ecology) di University of Essex, England pada tahun 1986

**Professional Affiliation(s):**
- President of Academician Society, UPM

**Specialisation(s) :**
- Ecotoxicology and Wildlife Ecology

**Expertise :**
- Zoology, wildlife ecology, and ecotoxicology

## A03649
## Ahmad Nazri Mohamed Som

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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualifications**

- Ph.D. (UPM, Malaysia)

**Specialisation(s)**

- Numerical Analysis

**Expertise**

- Numerical Analysis

## A03392
## Alvin Hee Kah Wei

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**Year of Appointment**: 2008

**Working Experience (As Academician)**: 4 years

**Qualification :**

- B. App.Sc (Applied Biology)(First Class Hons);PhD (Applied Entomology)(USM, Malaysia)

**Professional Affiliation(s) :**

- International Society of Chemical Ecology

**Specialisation(s) :**

- Entomology and Chemical Ecology

**Expertise :**

- Tephritid Fruit Fly Chemical Ecology, Insect-Plant Interactions

## A02588
## Aniza Abd. Ghani

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**Year of Appointment**: 2003

**Working Experience (As Academician)**: 9 years

**Qualifications**

- B. Sc. (Hons) (USA)
- M. Sc. (UKM, Malaysia)
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**

- Algebra

**Expertise**

- Algebra

## A03801
## Anwar Fitrianto

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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**

- B.Sc (Hons) (Statistics)
- M.Sc (Statistics)
- Ph.D (Robust Statistics)

**Specialisation(s)**

- Computational Statistics

**Expertise**
- Computational Statistics
- Survival analysis, Experimental Designs
- Statistical Quality Control
- Robust Statistics
- Meditation analysis
- Statistical Modeling

## A03533
## Azman Jali

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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualificatian:**
- Msc.

**Specialisation(s) :**
- Parasitology

**Expertise :**
- Medical Parasitology (Malariology, Protozoology) and Microbiology

## A00543
## Azmi Zakaria

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**Year of Appointment**: 1989

**Working Experience (As Academician)**: 23 years

**Qualifications**
- B. Sc ( Hon) Physics UKM
- M.Sc Belfast (UK)
- Ph.D Wales ( UK)

**Professional Affiliation(s)**
- Optical Society of America
- Malaysian Solid State Society

**Specialisation(s)**
- Photo thermal Physics, Optoelectronics

**Expertise**
- Photo thermal Non- destructive testing
- Photo thermal spectroscopy
- Zinc oxide based arrestor
- Nonmaterial produced by laser ablation

A03378
## Bimo Ario Tejo
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**Year of Appointment**: 2008

**Working Experience (As Academician)**: 4 years

**Qualifications**
- B.Sc. (Chemistry), University of Indonesia (1999)
- Ph.D. (Biotechnology), Universiti Putra Malaysia (2004)
- Postdoctoral fellow (Pharmaceutical Chemistry), University of Kansas (2008)

**Professional Affiliation(s)**
- American Chemical Society (ACS)
- American Association for the Advancement of Science (AAAS)
- ASEAN-South American-German (ASAG) Biotech Network
- South-South Initiative for Tropical Disease Research (SSI-TDR) Network
- Science Advisory Board

**Specialisation(s)**
- Computational Chemistry/Protein & Peptide Chemistry

**Expertise**
- Protein & peptide chemistry, computational chemistry, pharmaceutical chemistry

**For full curriculum vitae (CV), please visit http://profile.upm.edu.my/bimo**

## A03159
## Chen Soo Kien

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**Year of Appointment**: 2006

**Working Experience (As Academician)**: 6 years

**Qualifications**

- Ph.D., University of Cambridge, U.K.

**Professional Affiliation(s)**

- Institute of Physics Malaysia
- Institute of Physics U.K.
- Solid State Science and Technology Society Malaysia

**Specializations(s)**

- Superconductivity / Condensed Matter

**Expertise**

- Phase formation, electrical and magnetic properties of materials

## A03719
## Christina Yong Seok Yien

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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualification :**

- PhD Universiti Kebangsaan Malaysia

**Specialisation(s) :**

- Plant Molecular Genetic

**Expertise :**

- plant genetics, function and structure of plant genes, development of species specific genetic markers and population genetic studies

## A0385K
## Elias Saion

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**Year of Appointment**: 1976

**Working Experience (As Academician)**: 36 years

**Qualifications**

- B.Sc UKM ( Jun 1995)
- M.Sc University of Survey 1978
- PhD University of St Andrews 1989

**Professional Affiliation(s)**

- Chairman Directory Of Experts And Research Facilities
- Referee Posters Fundamental Science Congress, Faculty Science
- Keynote Speaker Fundamental Science Congress
- Committee Research And Innovation

**Specialisation(s)**

- Applied Physics

**Expertise**

- Calculus
- Algebra

## A03444
## Emilia Abd. Malek

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**Year of Appointment**: 2008

**Working Experience (As Academician)**: 4 years

**Qualifications**

- B Sc. (Hons)(Chemistry)(UMIST)
- PhD (Synthetic Organic Chemistry)(University of Oxford,UK)

**Specialisation(s)**

- Synthetic Organic Chemistry

**Expertise**
- Synthetic organic chemistry

## A03749
## Ernee Noryana Muhamad

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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**
- B.Sc (Hons.) Industrial Chemistry(UPM),
- M.Sc Material Chemistry(UPM),
- Ph.D Chemical Process Engineering(Hokkaido University, Japan)

**Professional Affiliation(s)**
- Universiti Putra Malaysia (UPM)

**Specialisation(s)**
- Catalysis
- Material Chemistry

**Expertise**
- Fuel cell catalysis
- Solid heterogeneous catalysts

## A02040
## Fadzilah Md. Ali

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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**
- Ph.D. (UKM, Malaysia)

**Specialisation(s)**
- Fluid Mechanics and Heat Transfer in Boundary Layer

**Expertise**
- Fluid Mechanics and Heat Transfer in Boundary Layer

## A02072
## Faridah Qamaruz Zaman
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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualification**
- PhD (University of Cambridge) ; B. Sc. (University of London)

**Professional Affiliation(s)**
- IUCN/SSC Orchid Specialist Group
- The Genetics Society of Malaysia

**Specialisation(s) :**
- Conversation genetics
- Orchidology
- Plant Biodiversity
- Plant Biotechnology

**Expertise :**
- Conversation genetics
- Orchidology
- Plant Biodiversity
- Plant Biotechnology

## A02238
## Faridah Yunos
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**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**
- Number Theory

**Expertise**
- Number Theory

## A00588
## Fauziah Maarof

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**Year of Appointment**: 1981

**Working Experience (As Academician)**: 31 years

**Qualifications**
- Ph.D. (USA)

**Specialisation(s)**
- Linear Model

**Expertise**
- Linear Model

## A00743
## Fudziah Ismail

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**Year of Appointment**: 1983

**Working Experience (As Academician)**: 29 years

**Qualifications**
- M. Sc. Math. (Washington State University, U.S.A)
- Ph.D. Math.(UPM, Malaysia)

**Specialisation(s)**
- Numerical Analysis

**Expertise**
- Numerical Analysis

## A00547
## Gwendoline Ee Cheng Lian

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**Year of Appointment**: 1981

**Working Experience (As Academician)**: 31 years

**Qualifications**
- BSc (NZ)
- MSc (NZ)
- PhD (Malaysia)

**Professional Affiliation(s)**
- Associate Member IKM
- Member RSC
- Member ACS

**Specialisation(s)**
- Organic Chemistry/ Natural Product Chemistry

**Expertise**
- Natural Product Chemistry

## A00608
## Habshah Midi

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**Year of Appointment**: 1981

**Working Experience (As Academician)**: 31 years

**Qualifications**
- B. A. (Hons) (Drew University, USA)
- M. Apl. Statistics ( Ohio State university, USA)
- Ph.D. (UKM)

**Specialisation(s)**
- Robust Regression

**Expertise**
- Robust Regression
- Experimental Design
- Quality Control

## A02287
## Halimah Mohamed Kamari

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**Year of Appointment**: 1986

**Working Experience (As Academician)**: 26 years

**Qualifications**
- B. Sc . Physics (Hons) (UM)
- MSc ( UPM)
- PhD ( UPM)

**Professional Affiliation(s)**
- University Putra Malaysia

**Specialisation(s)**
- Material Science of Physics
- Glass and Ceramics

**Expertise**
- Glass Science
- Ultrasonics
- Electrical and Dielectric Properties

## A02333
## Haliza Rosali

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haliza@science.upm.edu.my; haliza@putra.upm.edu.my

**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualifications**
- B.Sc (Hons) (UPM, Malaysia )
- Ms (UKM, Malaysia )

**Specialisation(s)**
- Applied Mathematics

**Expertise**
- Applied Mathematics

A03682
Haslina Ahmad
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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualifications**
- B. Sc. (Hons.) Chemistry (UTM)
- PhD (Chemistry)(University of Sheffield)

**Professional Affiliation(s)**
- MRSC

**Specialisation(s)**
- Bioinorganic Chemistry

**Expertise**
- DNA binding, coordination complexes,supramolecular materials,anion sensor

A01191
Hishamuddin Omar
Dr.
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hishamom@putra.upm.edu.my

**Year of Appointment**: 1989

**Working Experience (As Academician)**: 23 years

**Qualification:**
- PhD Marine Biology

**Specialisation(s) :**
- Aquatic Biology & Phycology

**Expertise :**
- Aquatic Biology & Phycology

A01289
Hishamuddin Zainuddin
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**Year of Appointment**: 1990

**Working Experience (As Academician)**: 27 years

**Administrative Position (If Any)**
- Head of Laboratory, Theoretical Studies Laboratory, Institute of Advanced Technology, University Putra Malaysia (2002-2006)
- Head of Laboratory, Laboratory of Computational Sciences and Mathematical Physics, Institute for Mathematical Research, University Putra Malaysia (2007-2012)
- Deputy Director, Institute for Mathematical Research, University Putra Malaysia (2012-now)

**Qualifications**
- B.Sc. (Hons.), University of Adelaide, Australia, 1984
- Cert. of Adv. Study in Math., University of Cambridge, United Kingdom, 1987
- Ph.D., University of Durham, United Kingdom, 1990

**Professional Affiliation(s)**
- Member, Malaysian Association for Solid State Science & Technology (since 1993)
- Fellow, Institute of Physics, Malaysia (since 1998)
- Member, Malaysian Society for Mathematical Sciences (since 2008)
- Committee Member, South East Asia Theoretical Physics Association (since 2012)

**Specialization (s)**
- Quantum Foundations
- Cosmological Models
- Complex Networks

**Expertise**
- Theoretical Physics
- Quantum Science & Technology
- Foundations of Science & Technology

## A03104
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**Year of Appointment**: 2006

**Working Experience (As Academician)**: 6 years

**Qualifications**
- M. Sc. Math. (National University of Uzbekistan)
- Ph.D. Math. (Moscow)

**Professional Affiliation(s)**
- Member of PERSAMA
- Referee of the Malaysian Journal of Mathematical Science

**Specialisation(s)**
- Differential Equations

**Expertise**
- Linear Pursuit and Evasion Differential Games
- Linear Discrete Pursuit Games
- Simultaneous Games

## A01730
## Idham Arif Alias
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**Year of Appointment**: 1997

**Working Experience (As Academician)**: 15 years

**Qualifications**
- B. Sc. (Hons) (Univ of Minnesota Twin Cities, USA/UPM, Malaysia)
- M. Sc. (University of Exeter, UK);
- Ph.D. (Australian National University, Australia)

**Specialisation(s)**
- Group Theory

**Expertise**
- Group Theory
- Educational Mathematics
- Financial Mathematics
- Etno-Mathematics

## A02872
## Intan Safinar Ismail

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**Year of Appointment**: 2005

**Working Experience (As Academician)**: 7 years

**Qualifications**
- B. Sc. Chemistry (Creighton University,USA)
- M.Sc. Natural Products Chemistry (UPM)
- Ph.D Natural Products Chemistry (Okayama University, Japan)

**Professional Affiliation(s)**
- Member-American Chemical Society (ACS) : 7 July 2009 - present
- Member-Japanese Pharmaceutical Society (JPS) : 27 May 2008 - present
- Member-Asia Life Science Council : 2009 - present
- Associate member-Institut Kimia Malaysia (IKM) : October 2010 - present

**Specialisation(s)**
- Natural Products Chemistry

**Expertise**
- Organic Chemistry

## A02015
## Ionel Valeriu Garescu

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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**
- PhD UPM 1998

**Specialization(s)**
- Applied optics

## A2008
## Irmawati Ramli

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**Year of Appointment**: 2003

**Working Experience (As Academician)**: 9 years

**Qualifications**
- Ph.D. in Chemistry (UMIST)

**Professional Affiliation(s)**
- Director National Science Centre

**Specialisation(s)**
- Heterogeneous Catalysis

**Expertise**
- Propane selective oxidation to acrylic acid
- Mixed metal oxide catalysts

## A03000
## Isthrinayagy Krishnarajah

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**Year of Appointment**: 2006

**Working Experience (As Academician)**: 6 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UPM, Malaysia);
- Ph.D. (UK)

**Specialisation(s)**
- Mathematical Biology

**Expertise**
- Mathematical Biology

## A01254
## Japar Sidik Bujang

Prof. Dr.
Department of Biology
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**Year of Appointment**: 1991

**Working Experience (As Academician)**: 21 years

**Qualification:**
- Phd Universiti Sains Malaysia

**Professional Affiliation(s) :**
- Chairman Substitude of Technical Committeewith Lada Sector, Cooperation Two Way KPPK-UPM

**Specialisation(s) :**
- Seagrass Taxonomy, Biology and Habitat Characters

**Expertise :**
- The Marine Angiosperms, Seagrass

## A02027
## Jayanthi Arasan

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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**
- B. Sc. (Hons) (USM, Malaysia)
- M. Sc. (UPM, Malaysia);
- Ph.D. (UK)

**Specialisation(s)**
- Survival Analysis
- Computational Statistics

**Expertise**
- Survival Analysis
- Computational Statistics

A03797
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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualifications:**
- Doctor of Philosophy

**Professional Affiliation(s):**
- Contributed more than 20 research articles in journals and proceedings.
- Life member of Malaysian Solid State Science and Technology (MASS).

**Specialization (s)**
- Material Science

**Expertise**
- Research involves synthesis, characterization and utilization of chalcogenide semi conductor materials for solar cell applications.
- Involve synthesizing polycrystalline chalcogenide semiconductor via various methods of preparation and characterizing the resulting materials in powder and thin film, involved structural, morphological, electrical, optical and thermal properties of the synthesized chalcogenide semiconductor materials.

A00717
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**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Qualifications**
- Ph.D ' Microwavel', UPM

**Professional Affiliation(s)**
- MASS
- mSET

**Specialisation(s)**
- Dielectric Science
- Microwave

**Expertise**
- Dielectric materials
- Microwave Extraction Technique (MET)

## A06787
## Kamaliah Sirat

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**Year of Appointment**: 1988

**Working Experience (As Academician)**: 24 years

**Qualifications**
- B.Sc. (Chemistry)(UKM);
- M.Sc. Metal Complexes/Coordination Compounds (University of Tasmania)

**Specialisation(s)**
- Inorganic Chemistry – coordination compound

**Expertise**
- Natural Product Chemistry

## A0103K
## Kamel Ariffin Mohd Atan

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**Year of Appointment**: 2004

**Working Experience (As Academician)**: 8 years

**Qualifications**
- Ph.D. (New South Wales)

**Specialisation(s)**
- Number Theory
- Cryptography

**Expertise**
- Number Theory
- Cryptography

## A02311
## Khamirul Amin Matori

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**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualifications**
- B.Sc Physics UPM 1995
- Masc. Material Science UPM 2001
- PhD Nucleation Studies ( Silicate Glass Ceramics) Uni. of Sheffield 2006

**Professional Affiliation(s)**
- Research Associate, ITMA
- Head Of The Laboratory Synthesis Of Material Characterization ITMA

**Specialisation(s)**
- Material Science and Nucleation Studies ( Silicate Glass Ceramics)

**Expertise**
- Material Science and Nucleation Studies ( Silicate Glass Ceramics)

## A02234
## Khozirah Shaari

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Department of Chemistry
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**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**

- B Sc (Hons) (Chemistry)University of Swansea, Wales
- M Sc (Phytochemistry)(University Malaya)
- PhD (Phytochemistry)(University of Strathclyde)

**Professional Affiliation(s)**

- Academic Officers Association,UPM (PPAUPM)
- Persatuan Pengguna Islam Malaysia (PPIM)

**Specialisation(s)**

- Organic Chemistry

**Expertise**

- Organic Chemistry

A02344
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**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualifications**

- Doctor of Philosophy in Operational Research (University of Southampton, UNITED KINGDOM)
- Master of Science in Applied Mathematics (Numerical Analysis) (Universiti Putra Malaysia, MALAYSIA)
- Bachelor of Science (Honors) in Mathematics (Universiti Putra Malaysia, MALAYSIA)

**Professional Affiliation(s)**

- Life Member of Persatuan Sains Matematik Malaysia (PERSAMA)
- Life Member of Management Science/Operations Research Society of Malaysia (MSORSM)
- Life Member of Golden Key National Honour Society
- Member of EURO Special Interest Group on Cutting and Packing (ESICUP)
- Member of Institute for Operations Research and the Management Sciences (INFORMS)
- Member of The Association of European Operational Research Societies (EURO)
- Member of The Operational Research Society (The OR Society)
- Member of Persatuan Pegawai Akademik UPM

**Specialisation(s)**
- Operational Research and Optimisation

**Expertise**
- Combinatorial Optimisation Problems (Machine Scheduling, Cutting and Packing, Travelling Salesman, Vehicle Routing, Urban Transit Network Design)
- Heuristic Approaches
- Local Search and Metaheuristic Approaches (Genetic Algorithms, Ant Colony Optimisation, Tabu Search, Descent Method, Simulated Annealing)

A02519
## Leong Wah June
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**Year of Appointment**: 2003

**Working Experience (As Academician)**: 9 years

**Qualifications**
- B.Sc(Hons),
- M.Sc,
- Ph.D -- UPM
- Postdoctoral – Chinese Academy of Sciences

**Professional Affiliation(s)**
- Society for Industrial and Applied Mathematics (SIAM)

**Specialisation(s)**
- Numerical Methods
- Newton-like Methods

**Expertise**
- Unconstrained Optimization
- Large-scale Optimization
- Nonlinear system

## A03893
## Lim Hong Ngee

Dr.
Department of Chemistry
Faculty of Science
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**Year of Appointment**: 2012

**Working Experience (As Academician)**: - years

**Qualifications**

- B. Sc. (Hons)(Oleochemistry) (UKM),
- M. Sc. (Chemistry) (UKM),
- Ph.D. (Surface Science) (UPM)

**Professional Affiliation(s)**

- Department of Chemistry, Faculty of Science, Universiti Putra Malaysia

**Specialisation(s)**

- Fabrication of graphene-based materials

**Expertise**

- Fabrication of graphene-based polymeric matrices
- Fabrication of inorganic nanostructure-graphene nanocomposites
- Functionalization of graphene

## A02555
## Lim Kean Pah

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Faculty of Science
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**Year of Appointment**: 2004

**Working Experience (As Academician)**: 8 years

**Qualifications**

- B.Sc. (Hons.) Universiti Putra Malaysia 1996 Physics
- Master Sciences Universiti Putra Malaysia 1999 Magnetic Thin Films
- Ph.D. Universiti Putra Malaysia 2002 Magnetic Materials

**Specializations(s)**
- Magnetism and Magnetic Thin Films
- Giant and colossal magneto resistive effect

**Expertise**
- Thin film fabrication using Pulsed Laser Ablation and RF/DC Magnetron Sputtering

A01725
## Mahendran S. Shitan
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**Year of Appointment**: 1992

**Working Experience (As Academician)**: 20 years

**Qualifications**
- B. Sc.(Hons) (USM, Malaysia)
- M.App.Sc (RMIT)
- Ph.D. (RMIT)

**Professional Affiliation(s)**
- PersatuanPegawaiAkademik, UPM
- Institut Statistik Malaysia
- Management Science and Operations Research Society

**Specialisation(s)**
- Spatial Model

**Expertise**
- Spatial Models
- Time Series
- Forecasting

A00707
## Mahiran Basri
Prof. Dr.
Department of Chemistry
Faculty of Science
Tel - Office: 03 89467266
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**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Qualifications**
- PhD (UPM)
- MS (NIU, USA)
- BS (NIU, USA)

**Professional Affiliation(s)**
- Fellow of Malaysian Institute of Chemistry

**Specialisation(s)**
- Organic Chemistry

**Expertise**
- Fats and Oil Chemistry
- Biocatalysis
- Colloid Chemistry

A0785K
Mansor Hashim
Assoc. Prof. Dr.
Department of Physic
Faculty of Science
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**Year of Appointment**: 1984

**Working Experience (As Academician)**: 28 years

**Qualifications**
- B.Sc (UM) 1977, Dip-in-Sc ( Uni. Of Dundee) 1979, M.Sc( Uni. Of Dundee) 1981,
- Ph.D ( Uni. Of Dundee) 1984

**Specialisation(s)**
- Magnetic Materials and Solid State Physics

**Expertise**
- Microwave resonance and relaxation in garnets' ,
- High Temperature
- Superconductors
- Electrical Properties Of Activated Carbon
- Spinel And Hexagonal Ferrites

A00715
## Mansor Ahmad @ Ayob
Assoc. Prof. Dr.
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**Year of Appointment**: 1983

**Working Experience (As Academician)**: 29 years

**Administrative Position (If Any)**

- Head of Department (Chemistry Department)

**Qualifications**

- B. S. (Indiana)
- M. S. (Kentucky)
- Ph.D. (Salford)

Professional Affiliation(s)

- Malaysian National Expert of ASEAN Sub-Committee on Infrastructure in Research and Development (SCIRD) Project on Public-Private Collaboration in Science and Technology: Policy Development, Training and Awareness. The project sponsored by ASEAN secretariat and Japan-ASEAN Exchange Program (JAEP). (Selected by Ministry of Science, Technology and the Environment to represent Malaysia).
- Chairman of the seminar ASEAN SCIRD Public-Private Collaboration in Science and Technology: Policy Development, Training and Awareness di Hotel Istana, Kuala Lumpur, Malaysia, 24 – 26 June 2003. Presenting by 65 participants from ASEAN country and Japan.
- Technical Committee of Safe System of Work and Practices in Occupational Setting for preparation Malaysia Standard, Ministry Human Resources Malaysia, since 2003.
- Member of Technical Committee of Malaysia National Chemistry Quiz (K3M), Malaysian Institute of Chemistry.2002 - 2004.
- Member of Education and Community Services of the Malaysian Institute of Chemistry, since 2003.
- Referee of Science Invention Contestant between Secondary Schools, Pameran Penyelidikan dan Rekacipta UPM 2003, UPM, 8-10 July 2003.
- Member of Inviting Editor Malaysian Journal of Analytical Sciences,2001.
- Associate Member (AMIC) of Malaysian Institute of Chemistry, since 1986.
- Member Biocomposite Technology Center (BTC) Institute Bioscience, UPM since 1998
- Member of Computer Chemistry Committee of the Malaysian Institute of Chemistry, 1995-1997.
- Member of Education Committee of the Malaysian Institute of Chemistry, 1997-present.
- Associate Member (AMSA) of Malaysian Scientists Association, since 1987.
- Member of Malaysian Analytical Scientist Society (ANALIS), since 1994.
- Committee Member of Malaysian Analytical Scientist Society (ANALIS) 1994-1997.
- Member of Biocomposite Technology Center, Institute Biosains, UPM 1997 – 2001
- Assistant Secretary Malaysian Analytical Scientist Society (ANALIS) 1994-1997.

2009 - 2012
- Associate Fellow, Malaysian Scientific Association (AFMSA) since 2011
- Chairman, Working Group on MS Safety and Health Signage used in the Workplaces, DOSH 2011-2013
- Council Member, Institut Kimia Malaysia (IKM) 2012-2013
- Council Member, Malaysian Scientific Association (MSA) 2012-2014

**Specialisation(s)**
- Polymer Chemistry: Polymer Grafting,Hydrogels and Controlled Release
- Nanocomposites
- Biocomposites and Polymer Blends

**Expertise**
- Analytical and Polymer Chemistry

A0415K
## Mansor Monsi
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**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Specialisation(s)**
- Optimization and Interval Analysis

**Expertise**
- Optimization and Interval Analysis

A03885
## Mashitah Shikh Maidin
Dr.
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**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualification :**
- PhD University of Western Australia

**Specialisation(s) :**
- Animal Reproduction/Endocrinology

**Expertise :**

- Applied researches and mainly focused on animal physiology, reproductive management and animal biotechnology
- Animal endocrine physiology and animal reproductive management as well as development process in female animals (especially in goats), with a particular focus on the pathways through which environmental factors influence the reproductive system.

## A00652
## Mat Rofa Ismail

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mrofa@science.upm.edu.my; mrofa@putra.upm.edu.my

**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Qualifications**

- Sarjana Muda Sains (Kep) (Universiti Kebangsaan Malaysia)
- MSc (University of Wales) – 1982
- PhD (Universiti Malaya) – 1993

**Specialisation(s)**

- Philosophy and History of Mathematics
- Advanced Mathematical Thinking
- Educational mathematics

**Expertise**

- Philosophy of Islamic Sciences

## A0336K
## Mawardi Rahmani

Professor
Department of Chemistry
Faculty of Science
Tel - Office: 03 8946 6794
Fax: 03 8943 5380

**Year of Appointment**: 1977

**Working Experience (As Academician)**: 33 years

**Qualifications**

- B. Sc. (UM, Malaysia)
- M. Phil (Nottingham)
- Ph.D. (New South Wales)

**Professional Affiliation(s)**
- Malaysian Natural Product Society

**Specialisation(s)**
- Organic Chemistry
- Organic Spectroscopy

**Expertise**
- Structure elucidation of natural products from various plant family
- Bioactivity study of natural products
- Various chromatographic separation techniques
- Interpretation of spectral data

## A03797
## Mazliana Ahmad Kamaruddin
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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**
- Bac. Sc in Physics Second Class Upper,UPM 2005 ,
- PhD in Applied Optics Lancaster University 2010

**Specialization (s)**
- Semiconductor Nanostructures ( Quantum Dots)

**Expertise**
- Nan particles synthesis

## A03727
## Md. Mahmudur Rahman
Dr.
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Faculty of Science
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mahmud@science.upm.edu.my


**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**

- B. Sc Physics 2002 ( Japan)
- M.Sc Mathematics and Physics 2004 ( Japan)
- PhD Theoretical and Computational Physics 2007 ( Japan)

**Professional Affiliation(s)**

- Committee member of Asia-Pacific Conference & Workshop In Quantum Information Science 2012 (APCWQIS 2012)

**Specialisation(s)**

- Mathematics and Physics

**Expertise**

- Theoretical and Computational Physics

A03824
Md. Sohel Rana
Dr.
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sohel@science.upm.edu.my; sohel_rana@putra.upm.edu.my

**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualifications**

- Ph.D. (UPM, Malaysia)

**Specialisation(s)**

- Robust Statistical Methods

**Expertise**

- Robust Statistical Methods

A03170
Meenakshii Nallapan
Dr.
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Faculty of Science
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meenakshii@science.upm.edu.my

**Year of Appointment**: 2007

**Working Experience (As Academician)**: 5 years

**Qualification**
- PhD King's College London

**Specialisation(s)**
- Fractionation Of Medicinal Plants

**Expertise**
- Antidiabetic effects of selected medicinal plants employing Type I and II Diabetic models in vitro and in vivo
- Hypertensive investigation of selected medicinal plants employing SHR models

## A02793
## Mohamat Aidil Mohamat Johari

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Department of Mathematics
Faculty of Science
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aidil@science.upm.edu.my

**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UKM, Malaysia)
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**
- Applied Mathematics

**Expertise**
- Applied Mathematics

## A02446
## Mohamed Ibrahim Mohamed Tahir

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Department of Chemistry
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mibrahim@science.upm.edu.my

**Year of Appointment**: 2002

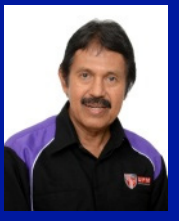
**Working Experience (As Academician)**: 10 years

**Qualifications**
- B.Sc. (Hons) in Chemsitry (Southampton)
- D.Phil. (Oxford)

**Professional Affiliation(s)**
- Member of the American Chemical Society (2010 – present)

**Specialisation(s)**
- Inorganic Chemistry

**Expertise**
- Coordination Chemistry
- Crystallography



A02881
## Mohamed Suleiman
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**Year of Appointment**: 2005

**Working Experience (As Academician)**: 7 years

**Qualifications**
- B. Sc. (Hons) (UM, Malaysia)
- M. Sc. (University of Newcastle-Upon-Tyne, England)
- Ph.D. (University of Manchester, UK)

**Professional Affiliation(s)**
- Malaysian Mathematical Society (PERSAMA)

**Specialisation(s)**
- Numerical Analysis

**Expertise**
- Numerical Analysis

A0402K
## Mohd Maarof Hj Abd Moksin
Prof. Dr.
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Fax: 03 89454454
maarof@science.upm.edu.my

**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications:**
- B Sc UKM
- MSc Brunel
- PhD Uni. Strathclyde

**Professional Affiliation(s)**
- Life Member of MASS

**Specialisation(s)**
- Material Evaluation

**Expertise:**
- Thermal wave generation and detection in submicron layers
- Thermal wave applications in material characterization

A03880
## Mohd Mustafa Awang Kechik
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Department of Physics
Faculty of Science
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mustafa@science.upm.edu.my

**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualifications**
- Bachelor of Science (Hons) Physics, UPM, 2001.
- Master of Science (Physics), UKM, 2007.
- PhD (Superconductivity), University of Birmingham, 2011.

**Professional Affiliation(s)**
- Malaysian Solid State Science and Technology Association, Life Member, 2005-present.
- Institute of Physics (IOP), UK, Associate Member, 2007-present
- The Birmingham Metallurgical Association, UK, Member, 2007-present

**Specialization (s)**

- Focus on fundamental studies of both the fabrication and characterization of YBCO 123 thin films grown on Strontium Titanate (STO) substrate by the Pulsed Laser Deposition and RF Sputtering methods, with emphasis on the improvement of critical current density through optimizing the processing conditions and through the addition of nano pinning inclusions.
- The influence of several materials nano-inclusions in YBCO 123 on the Tc and Jc is also studied. The results of this study have the potential to help in understanding the way flux pinning center properties work. His work mainly focuses on flux pinning in High Temperature superconducting films. He has published over 30 research articles in journals.

**Expertise**

- High-Tc superconducting wire and tape fabrication.

A01206
Mohd Zobir Hussein
Professor
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mzobir@science.upm.edu.my

**Year of Appointment**: 1989

**Working Experience (As Academician)**: 23 years

**Administrative Position (If Any)**

- Head, Catalysis Science and Technology Research Centre

**Qualifications**

- B. Sc. Hons (UKM, Malaysia)
- Ph.D. (Reading, UK)

**Professional Affiliation(s)**

- Member of Materials Research Society, USA (MMRS)
- Associate of Malaysian Institute of Chemistry (AMIC)
- Fellow of Malaysian Association of Solid State Sciences (FMASS)

**Specialisation(s)**

- Materials Chemistry/Nanomaterials/Drug Delivery

**Expertise**

- Materials Chemistry/Nanomaterials

A01956
## Mohd. Aspollah Md. Sukari
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Faculty of Science
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aspollah@science.upm.edu.my

**Year of Appointment**: 1981

**Working Experience (As Academician)**: 31 years

**Qualifications**

- B. Sc. Chemistry (Gadjah Mada University, Indonesia);
- Drs Chemistry ( Gadjah Mada University,Indonesia);
- Ph.D Organic Chemistry (University of York,UK)

**Professional Affiliation(s)**

- Royal Society of Chemistry (RSC), MRSC, C.Chem.
- Malaysian Natural Products Society (MNPS)
- Malaysian Analytical Sciences Society (Analyst)
- UPM Academic Staff Association
- Asian Phytochemical Society

**Specialisation(s)**

- Organic Chemistry
- Natural Products Chemistry

**Expertise**

- Chemistry of Biologically Important Natural Products
- Organic synthesis

A02041
## Mohd. Bakri Adam
Dr.
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bakri@science.upm.edu.my; bakri@putra.upm.edu.my

**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**

- B.Sc. (Hons), Universiti Pertanian Malaysia, 1995.
- Diploma in Rubber, Plastics & Polymer Science, RRIM, 1998.
- M.Sc. (Applied Statistics), Universiti Putra Malaysia, 2000.
- Ph.D. (Statistics), Lancaster University, 2007.Ph.D. (Lancaster University)

**Specialisation(s)**

- Extreme Value Theory
- Non-parametric Regression
- Sports Data Analysis

**Expertise**

- Extreme Value Theory
- Non-parametric Regression
- Extreme-environment Statistics
- Extreme-sport Statistics
- Extreme Missing Data
- Extreme Data Mining

A00869

## Mohamad Rushdan Md Said

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mrushdan@science.upm.edu.my; mrushdan@putra.upm.edu.my

**Year of Appointment**: 1985

**Working Experience (As Academician)**: 27 years

**Qualifications**

- Ph.D. (Sydney)

**Professional Affiliation(s)**

- Persama (PersatuanSainsMatematik Malaysia)
- MSCR (Malaysian Cryptology Research Society)

**Specialisation(s)**

- Cryptography
- Number Theory

**Expertise**

- Public Key Cryptography
- Number Theory

## A01920
## Mohd. Basyaruddin Abdul Rahman

Prof. Dr.
Department of Chemistry
Faculty of Science
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basya@science.upm.edu.my

**Year of Appointment**: 1999

**Working Experience (As Academician)**: 13 years

**Qualifications**

- B. Sc in Double Major in Chemistry & Computer Science with Education (Second Class Upper Hons) UTM, Malaysia
- Ph.D. in Catalysis Chemistry (Univ. Of Southampton, England)

**Professional Affiliation(s)**

- Universiti Putra Malaysia (UPM)
- Ministry of Science, Technology & Innovation (MOSTI)
- Malaysia Genome Institute (MGI)
- Akademi Sains Malaysia (ASM)

**Specialisation(s)**

- Catalysis Chemistry

**Expertise**

- Biocatalysis
- Computational Chemistry
- Structural Biology

## A00894
## Mohd. Rizam Abu Bakar

Assoc. Prof. Dr.
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mrizam@science.upm.edu.my; mrizam@putra.upm.edu.my

**Year of Appointment**: 1985

**Working Experience (As Academician)**: 27 years

**Qualifications**

- Ph.D. (UK)

**Specialisation(s)**
- Survival Data analysis
- Data Envelopement Analysis
- Epidermic Models

**Expertise**
- Survival Data analysis
- Data Envelopement Analysis
- Epidermic Models

## A02616
## Muhammad Rezal Kamel Ariffin
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**Year of Appointment**: 2003

**Working Experience (As Academician)**: 9 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UPM, Malaysia)
- Ph.D. (UKM, Malaysia)

**Professional Affiliation(s)**
- Exco Member Malaysian Society for Cryptology Research

**Specialisation(s)**
- Mathematical Cryptology

**Expertise**
- Mathematical Cryptology

## A02067
## Muskhazli Mustafa
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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualification**
- PhD

**Professional Affiliation(s)**
- World Wildlife Fund
- Malaysian Genetic Society
- Malaysian Society of Microbiology
- Malaysian Applied Biology Society
- Association for Tropical Biology and Conversation

**Specialisation(s)**
- Microbiology

**Expertise**
- Protein Secretion

## A02076
## Nazihah Mohamed Ali

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**Year of Appointment**: 2000

**Working Experience (As Academician)**: 12 years

**Qualifications**
- B. Sc. (Hons) (UKM, Malaysia)
- M. Sc. (UKM, Malaysia)
- Ph.D. (USM, Malaysia)

**Specialisation(s)**
- Quality Control

**Expertise**
- Quality Control

## A02252
## Nik Mohd Asri Nik Long

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nmasri@science.upm.edu.my; nmasri@putra.upm.edu.my

**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**
- Ph.D. (Manchester)

**Specialisation(s)**
- Applied Mathematic

**Expertise**
- Fracture Mechanics
- Integral Equations

## A03825
## Nizam Tamchek
Dr.
Department of Physics
Faculty of Science
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Fax: 03 89454454
nizamtam@science.upm.edu.my


**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualifications**
- Phd (2010), Universiti Malaya
- M. Sc. (2004), Universiti Malaya
- B. Sc. (2001), Kanazawa University, Japan

**Specialization(s)**
- Optical Fiber
- Nonlinear optical fiber, PCF, Optical fiber amplifer

**Expertise**
- Sensor
- FBG, SPR, PCF, Flat-Fiber

## A0698
## Noor Akma Ibrahim
Prof. Dr.
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**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Qualifications**
- B. Sc. (Hons) (USA)
- M. Sc. (USA)
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**
- Survival Analysis
- Diagnostics Influence in Regression

**Expertise**
- Survival Analysis
- Diagnostics Influence in Regression

## A02953
## Nor Aliza Abd. Rahmin

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**Year of Appointment**: 2006

**Working Experience (As Academician)**: 6 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UPM, Malaysia)
- Ph.D. (University of Southampton, UK)

**Specialisation(s)**
- Applied Mathematics

**Expertise**
- Applied Mathematics

## A02457
## Nor Azah Yusof

Dr.
Department of Chemistry
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**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualifications**
- Ph.D. in Analytical Chemistry

**Specialisation(s)**
- Chemical sensor and Biosensor
- Molecular Imprinted Polymer

**Expertise**
- Chemical sensor and Biosensor
- Molecular Imprinted Polymer

A01024
Nor Azowa Ibrahim
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Faculty of Science
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**Year of Appointment**: 1987

**Working Experience (As Academician)**: 25 years

**Qualifications**
- B. Sc. (Kansas, USA)
- M. Sc. (Illinois, USA)
- Ph.D. (UPM, Malaysia)

**Professional Affiliation(s)**
- The plastics and rubber institute Malaysia (PRIM)

**Specialisation(s)**
- Graft copolymerization
- Polymer blends
- Biocomposites

**Expertise**
- Polymer Chemistry

A02466
Nor Azwady Abd. Aziz
Dr.
Department of Biology
Faculty of Science
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Fax: 03 86567454
azwady@science.upm.edu.my

**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualification**
- PhD

**Professional Affiliation(s)**
- Malaysian Society of Applied Biology

**Specialisation(s)**
- vermitechnology and ecotoxicology

**Expertise**
- Ecology Studies
- Utilization Of Agriculture Wastes Via Vermicompost
- Vermiculture

A02285
## Norazak Senu
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**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UPM, Malaysia)
- Ph.D. (UPM, Malaysia)

**Professional Affiliation(s)**
- Associate Researcher Of Institute For Mathematical Research (INSPEM)

**Specialisation(s)**
- Numerical analysis
- Web Based Learning and Teaching System

**Expertise**
- Numerical analysis
- Web Based Learning and Teaching System

## A0286
## Norfifah Bachok @ Lati
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**Year of Appointment**: 2004

**Working Experience (As Academician)**: 8 years

**Qualifications**
- Ph.D. (UKM, Malaysia)

**Specialisation(s)**
- Optimization

**Expertise**
- Optimization

## A03556
## Norhazlin Zainuddin
Dr.
Department of Chemistry
Faculty of Science
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**Year of Appointment**: 2009

**Working Experience (As Academician)**: 3 years

**Qualifications**
- B Sc. (Industrial Chemistry)(UPM)
- M Sc. (Polymer Chemistry)(UPM)
- PhD (Materials Chemistry)(Imperial College, London)

**Specialisation(s)**
- Synthesis, characterization and utilization of materials for dental application

**Expertise**
- Reinforcement of clay in glass polyalkenoate cement
- Modification of Natural Polymer

## A01738
## Norihan Md. Arifin

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norihan@science.upm.edu.my; norihana@putra.upm.edu.my

**Year of Appointment**: 1993

**Working Experience (As Academician)**: 19 years

**Qualifications**

- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (Strathclyde, UK)
- Ph.D. (UKM, Malaysia)

**Professional Affiliation(s)**

- Life Member, Malaysian Mathematical Sciences Society
- Committee PERSAMA
- Research Associate for the Mathematical Research (INSPEM)

**Specialisation(s)**

- Industrial Mathematics
- Fluid Dynamics
- Convective Instability

**Expertise**

- Fluid Dynamics and Heat Transfer
- Marangoni Convection in Micropolar and Porous Medium
- Boundary Layer Problem in Nanofluids

## A02692
## Norlaily Mohd. Saiden

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Faculty of Science
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laily@science.upm.edu.my

**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**

- B. Sc Physics UPM, 2000
- M. Sc Material Science UPM, 2003
- Ph. D Magnetic Materials University of Sheffield, United Kingdom

**Professional Affiliation(s)**
- Member in Fundamental Science Congress 2012

**Specialization(s)**
- Material Science , Physics and Magnetic Materials

**Expertise**
- Micro magnetic model of nanocrystalline RE-Fe-Ta-B permanents magnets

A03272
Nur Ain Izzati Mohd Zainudin
Dr.
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izzati@science.upm.edu.my

**Year of Appointment**: 2007

**Working Experience (As Academician)**: 5 years

**Qualification**
- Dip. In Animal Health & Production; B. Sc. Hons. Biology (UPM, Malaysia) ; PhD (USM, Malaysia)

**Professional Affiliation(s)**
- Malaysian Society for Microbiology
- Malaysian Society of Applied Biology
- Malaysian Plant Protection Society

**Specialisation(s)**
- Mycology and Phytopathology

**Expertise**
- Fungal Taxonomy
- Fungal Diversity
- Aetiology of Plant Disease

A02288
Nurhidayaty Mokhtar
Mrs.
Department of Physics
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**Year of Appointment**: 2001

**Working Experience (As Academician)**: 12 years

**Qualifications**
- B. Sc.; M. Sc.

**Professional Affiliation(s)**
- Malaysian Science and Technology Society (MASS)

**Specialisation(s)**
- Materials science, mainly magnetic materials such as ferrites

**Expertise**
- Magnetic and microwave properties of ferrite nanoparticles and ferrites-thermo plastic elastomeric composites; microwave absorbers.

## A03912
## Nurul Huda Osman
Dr.
Department of Physics
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nurul huda@science.upm.edu.my


**Year of Appointment**: 2011

**Working Experience (As Academician)**: 1 years

**Qualifications**
- Bachelor Electronic engineering, University of Surrey
- PhD., University of Surrey

**Specialisation(s)**
- Microwave Engineering, Electronic Engineering

**Expertise**
- Microwave Circuit design (passive components, planar components)
- Material characterization at (up to 220 GHz)
- Thick film fabrication

## A03819
## Raba'ah Syahidah Azis
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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**

- M.Sc Magnetic Materials Science, 2004
- B.Sc Physics, 2000
- PhD School of Oriental and African Studies,University of London, 2008

**Professional Affiliation(s)**

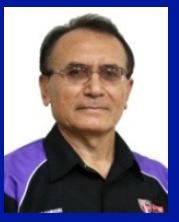
- Member of Institute of Physics (IOP) and International Sol-gel Society (ISGS)

**Specialization (s)**

- Chemistry, physics and materials science inorganic, ceramic and ferromagnetic materials

**Expertise**

- Ceramic, Magnetic materials (Ferromagnetic Materials) – Ba, Sr Hex ferrite, Recycling Mill scale Waste Product



A02769
Rakhimov Isamiddin
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**Year of Appointment**: 2004

**Working Experience (As Academician)**: 8 years

**Qualifications**

- M.Sc. (Russia)
- Ph.D. (Russia)

**Professional Affiliation(s)**

- Member of the INSPEM Management Committee
- Member of Department of Mathematics Seminar Committee
- American Mathematical Society

**Specialisation(s)**

- Algebras

**Expertise**

- Structural theory of Associative and Nonassociative Algebras.
- Lie and Leibniz algebras and related to them (co)homological problems.
- Commutative algebras, Algebraic geometry.
- Ordinary and Differential Invariant theory.
- Elliptic Curves and their applications.
- Applications of Lie and Leibniz algebras to the problems of Quantum Physics.

A03677
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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**

- Bachelor (Pure Chemistry, Tehran University, Iran)
- Master (Physical Chemistry, Tehran Teacher Training University, Iran)
- PhD (Computational & Theoretical Chemistry, University Putra Malaysia)

**Professional Affiliation(s)**

- American Chemical Society

**Specialisation (s)**

- Computational and Theoretical Chemistry/ Molecular Simulation Techniques

**Expertise**

- Protein folding /unfolding & enzyme modification with applications in industry & pharmaceuticals
- Self-assembly & micellization studies with applications in drug nano-delivery systems

A03516
Rosimah Nullit
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**Year of Appointment**: 2008

**Working Experience (As Academician)**: 4 years

**Qualification**

- PhD (University of Sheffield);B.Sc. (UPM, Malaysia)

**Professional Affiliation(s)**

- Member og The Arabidopsis Information Resources (TAIR)

**Specialisation(s)**
- Plant Physiology
- Plant genetic engineering
- Plantenzymology
- Plant antibody

**Expertise**
- Plant Physiology
- Plant genetic engineering
- Plant enzymology
- Plant antibody

A01788
Rusea Go
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**Year of Appointment**: 1998

**Working Experience (As Academician)**: 14 years

**Qualifications**
- PhD (UKM, Malaysia)

**Professional Affiliation(s)**
- Flora Malesiana Foundation (Coordinator for Lycopodiaceae Research Group)
- Orchid Specialist Group (IUCN) – Life Member
- International Canopy Network (ICAN) – Life Member
- Association of Tropical Biology Conversation – Life Member
- Association of Tropical Biology Conversation (Asia Chapter) – Country Representative & Life Member

**Specialisation(s)**
- Plant Taxonomy and Conversation

**Expertise**
- Verbenaceae/Labiatae
- Pteridophytes and Orchidaceae

A03894
Ruzniza Mohd Zawawi
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**Year of Appointment**: 2011

**Working Experience (As Academician)**: 7 years

**Qualifications**

- B Sc. (Industrial Chemistry)(UTM)
- M Sc. (Chemistry)(UTM)
- PhD (Electro analytical Chemistry)(Durham University)

**Specialisation(s)**

- Electro analytical Chemistry

**Expertise**

- Chiral biosensors
- Nanocomposite hybrid materials

A02942
Shahrizad Yusof
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**Year of Appointment**: 1986

**Working Experience (As Academician)**: 26 years

**Qualification**

- Msc. Universiti Putra Malaysia

**Professional Affiliation(s)**

- Malaysian Society of Applied Biology

**Specialisation(s)**

- Ecotoxicology

**Expertise**

- Aquatic Ecotoxicology

## A03732
## Shahrul Ainliah Alang Ahmad
Dr.
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Faculty of Science
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ainliah@science.upm.edu.my


**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**
- B.Sc (Hons) (Industrial Chemistry) (UPM),
- Ph.D (University of Sheffield)

**Professional Affiliation(s)**
- Member , Royal Society of Chemistry

**Specialisation(s)**
- Surface Science/Analytical Chemistry

**Expertise**
- Photolithography

## A02852
## Shamarina Shohaimi
Dr.
Department of Biology
Faculty of Science
Tel-Office: 03 89466637
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shamarina@science.upm.edu.my


**Year of Appointment**: 2005

**Working Experience (As Academician)**: 7 years

**Qualification:**
- PhD

**Professional Affiliation(s) :**
- Fundamental Science Congress

**Specialisation(s) :**
- Biostatistic and Epidemiology

**Expertise :**
- Cardiovascular Epidemiology And Statistical Methods In Biology And Epidemiology
- Cardiovascular Diseases, Developing Models Of Determinants And Validation Studies

## A00716
## Shamsiah Mohamed

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**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Specialisation(s)**
- Applied Statistics

**Expertise**
- Applied Statistics

## A02239
## Sharifah Kartini Said Husain

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**Year of Appointment**: 2001

**Working Experience (As Academician)**: 11 years

**Qualifications**
- B. Sc. (Hons)
- M. Sc.
- Ph.D.

**Professional Affiliation(s)**
- Malaysian Mathematical Sciences Society

**Specialisation(s)**
- Number Theory

**Expertise**
- Number Theory

## A01187
## Sidek Ab. Aziz

Professor
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sidek@putra.upm.edu.my

**Year of Appointment**: 1985

**Working Experience (As Academician)**: 27 years

**Qualifications**

- B. Sc. (Hons) UKM'sia
- Ph.D. (Bath, UK)
- M.S (ICT) UPM

**Professional Affiliation(s)**

- Fellow- The Malaysian Solid State Science and Technology Society
- Member – The UK Glass Society
- Associate Fellows ( CADE)

**Specialisation(s)**

- Materials Science

**Expertise**

- Glass Materials
- Solid State Physics
- Ultrasonic Characterization

## A02240
## Siti Hasana Sapar

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sitihasana@science.upm.edu.my; sitihas@putra.upm.edu.my

**Year of Appointment**: 1996

**Working Experience (As Academician)**: 16 years

**Qualification:**

- PhD

**Specialisation(s)**

- Pure Mathematics

**Expertise**
- Estimation of Exponential Sum
- Diophantine Equations

## A00429
## Siti Khalijah Daud

Assoc. Prof. Dr.
Department of Biology
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sitikd@putra.upm.edu.my

**Year of Appointment**: 1979

**Working Experience (As Academician)**: 33 years

**Qualification**
- PhD di University of Stirling, Scotland

**Professional Affiliation(s)**
- Society of Biology

**Specialisation(s)**
- Population Genetic (Biosystematic)

**Expertise**
- Science Marine

## A03268
## Siti Mariam Mohd. Nor

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Faculty of Science
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mariam@science.upm.edu.my

**Year of Appointment**: 2007

**Working Experience (As Academician)**: 5 years

**Qualifications**
- B Sc. (UPM)
- Ph.D. (University of Nottingham, United Kingdom)

**Specialisation(s)**
- Organic Chemistry

**Expertise**
- Total Synthesis of Bioactive Compounds
- Novel Synthetic Methods
- Synthesis of Natural Products Derivatives

## A03764
## Siti Salwa Abd Gani
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Tel-Office: 03 8946 8954
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ssalwaag@putra.upm.edu.my


**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**
- B. Sc. with Edu (Hons)(Chemistry)
- Ph.D (Oleochemistry)(UPM)

**Professional Affiliation(s)**
- Member of International Society for Stratum Corneum Research

**Specialisations**
- Oleochemistry

**Expertise**
- Cosmoceuticals
- Nano-science
- Skin

## A02604
## Suriati Paiman
Mrs.
Department of Physics
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suriati@science.upm.edu.my


**Year of Appointment**: 2003

**Working Experience (As Academician)**: 9 years

**Qualifications**
- M.Sc Physics ( UTM)
- PhD., Electronic Materials Engineering ( The Australian National University)

**Professional Affiliation(s)**

- Member of the Institute of Electrical and Electronic Engineers (IEEE)
- Member of the IEEE Lasers and Electro-Optics Society (LEOS)
- Member of the American Chemical Society (ACS)
- Member of the Australian Research Network for Advanced Materials (ARNAM)
- Member of the Australian Nanotechnology Network (ANN)
- Life member of the Malaysian Solid State Science and Technology (MASS)

**Specialisation(s)**

- Semiconductor & Nano Technology
- Compound semiconductors nanostructures
- Condensed matter physics

**Expertise**

- Compound Semiconductor Materials Science (III-V semiconductors)
  - Epitaxial growth of III-V semiconductors
  - Characterisation and modification of III-V compound semiconductor nanowires for
  - optoelectronic device applications
- Compound Semiconductor Nanotechnology
  - Epitaxial Growth of Nanowires
  - Optical and Electronic Processes in Nanowires
  - Nano-optoelectronics and Nano-photonics
- Compound Semiconductor Photovoltaics
  - III-V Semiconductor Nanowires for Solar Cells

A03763
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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualification**

- PhD in Coastal Environment and Conversation, University of Tokyo

**Professional Affiliation(s)**

- International Society for Mangrove Ecosystem
- World Biodiversity Association

**Specialisation(s)**

- Bioaccumulation And Mobility Of Notable Pollutants In Environment And Organisms Involved In A Foodweb Of Coastal Ecosystem

Expertise

- Ecotoxicology And Coastal Ecosystem Ecochemistry, With A Specialty In Isotope Ecology

A03771
Takaomi Arai
Dr.
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Faculty of Science
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arai@science.upm.edu.my

**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications:**
- PhD

**Specialisation(s) :**
- Fish biology and ecotoxicology

**Expertise :**
- Ichthyology, Aquatic ecology, and Ecotoxicology.
- Ecology of Diadromous Fish

A03181
Tan Kar Ban @ Bernard
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tankb@science.upm.edu.my

**Year of Appointment**: 2007

**Working Experience (As Academician)**: 5 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- Ph.D. (UPM, Malaysia);

**Professional Affiliation(s)**
- Associate Member (IKM)
- Member (MASS)
- Member (ACS)

**Specialisation(s)**
- Electroceramics, Solid State Chemistry, Materials Science

**Expertise:**
- AC Impedance Spectroscopy, Powder X-Ray Diffraction, Phase Diagram Study
- Electroceramics

## A0231K
## Tan Wee Tee

Prof. Madya Dr.
Department ofChemistry
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wttan@science.upm.edu.my

**Year of Appointment**: 2005

**Working Experience (As Academician)**: 7 years

**Qualifications:**

- B. Sc. (Chemistry)(University of Canterburry, New Zealand);
- M. Sc. (Environmental Chemistry/Inorganic Chemistry)(University of Canterburry, New Zealand);
- Ph.D (Electroanalytical Chemistry)(Dalhousie University,Canada)

**Professional Affiliation(s)**

- Associate member of Institute Kimia Malaysia

**Specialisation(s)**

- Electrochemistry/Electroanalytical Chemistry

**Expertise**

- Solution phase voltammetry of metal complex system , with interest in the metal ion/metal complex interaction with ligands; solid phase voltammetry of microparticles
- Investigating the electrochemical properties of three phase reaction systems of some advanced materials
- Chemical modified electrode systems focusing on their designs and application for electroanalysis

## A02352
## Tan Yen Ping

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yptan@science.upm.edu.my

**Year of Appointment**: 2002

**Working Experience (As Academician)**: 10 years

**Qualifications**

- Bac. Sc. Comp. Educ. (UTM,Malaysia)
- Ph.D. (University of Cambridge, UK)

**Specialisation(s)**
- Materials Chemistry
- Catalysis

**Expertise**
- Materials Chemistry
- Catalysis

A01645
Taufiq Yap Yun Hin
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Research Centre for Catalysis Science and Technology
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**Year of Appointment**: 1993

**Working Experience (As Academician)**: 16 years

**Qualifications**
- B. Sc. (Hons); M. Sc. (UPM, Malaysia); Ph.D. (UMIST, UK)

**Professional Affiliation(s)**
- Fellow, Royal Society of Chemistry, UK
- Fellow, Malaysian Institute of Chemistry (IKM)
- Executive Board Member, Malaysian Analytical Science Society (ANALIS)
- Committee Member, Asia Pacific Association of Catalysis Society (APACS)
- Associate Member, Institute of Chemical Engineers (IChemE), UK.
- Member, Malaysian Natural Products Society
- Member of the Editorial Board of Catalysis Survey from Asia.
- Member of the Editorial Board of Bulletin of the Catalysis Society of India.
- Regional Editor of Bulletin of Chemical Reaction and Catalysis.
- Member of the Editorial Board of Malaysian Journal of Analytical Sciences.
- Member, Malaysian Society for Engineering and Technology.
- Member of Editorial Board, Energy and Power.

**Specialisation(s)**
- Heterogeneous Catalysis

**Expertise**
- Selective Oxidation of Light Hydrocarbons
- Nanostructured metal oxide
- Biomass Gasification
- Production of bio-oil from the pyrolysis of biomass
- Development of heterogeneous Catalysts for Biodiesel production

A03694
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**Year of Appointment**: 2010

**Working Experience (As Academician)**: 2 years

**Qualifications**

- B.Sc Ed (Major Chemistry, Minor Biology) (Universiti Brunei Darussalam)
- M.S (Synthesis Chemistry) (UPM)
- Ph.D. (Synthesis Chemistry) (UPM)

**Specialisation(s)**

- Inorganic Metallic/Bioorganic ChemistryCatalysis

**Expertise**

- Research group activity involves synthesis of biologically active Schiff bases and their mixed-ligand transition metal complexes. Currently, the focus has been widened and the potential use of these Schiff bases and metal complexes in electrochemistry and liquid crystal properties are also being investigated.

A01068
Umi Kalsom Yusuf
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umikay@science.upm.edu.my

**Year of Appointment**: 1987

**Working Experience (As Academician)**: 25 years

**Qualification**

- B.Sc (UKM, Malaysia) ; PhD (University of Reading, England)

**Specialisation(s)**

- Botany

**Expertise :**

- Plant Biosystematics
- Plant Diversity
- Fern Systematics and Ethnobotany

## A00851
## W. Mahmood Mat Yunus

Prof. Dr.
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Faculty of Science
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**Year of Appointment**: 1985

**Working Experience (As Academician)**: 27 years

**Qualifications**

- Ph. D University College of Swansea

**Professional Affiliation(s)**

- Member of OSA ( Optical Society of America)
- Fellow of Malaysian Solid State Science and Technology ( MASS)

**Specialisation(s)**

- Optical Materials,
- Optical and Electrical Properties of Materials,
- Non-Linear Optics, Photo thermal and Photo acoustic,
- Surface Plasmon Resonance,
- Thermal Diffusivity and Thermal Conductivity,
- Semiconductor Thin Film, and Metal Silicides

**Expertise**

- Photo acoustic Technique
- Surface Plasmon's Resonance Technique

## A0193K
## Wan Mohamad Daud Wan Yusoff

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**Year of Appointment**: 1974

**Working Experience (As Academician)**: 38 years

**Qualifications**

- B. Sc. Institute of Technology Bandung (ITB) 1974,
- M.Sc. University College Cardiff 1980,
- Ph. D UPM 1986

**Professional Affiliation(s)**

- Panel Examination Questions, Examination Council Malaysia

**Specialisation(s)**
- Nature of Electrical / Dielectric Material

**Expertise**
- Material Science

## A02792
## Witriany Basri

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**Year of Appointment**: 1992

**Working Experience (As Academician)**: 20 years

**Qualifications**
- B. Sc. (Hons) (UPM, Malaysia)
- M. Sc. (UKM, Malaysia)
- Ph.D. (UPM, Malaysia)

**Professional Affiliation(s)**
- Malaysian Mathematical Sciences Society

**Specialisation(s)**
- Algebra

**Expertise**
- Algebra

## A02787
## Yong Faezah Rahim

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**Year of Appointment**: 1992

**Working Experience (As Academician)**: 20 years

**Qualifications**
- M.Sc (UPM, Malaysia)
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**
- Numerical analysis

**Expertise**
- Numerical analysis

A03876
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**Year of Appointment**: 2011

**Working Experience (As Academician)**: - years

**Qualifications**
- B.Sc. (Industrial Chemistry) (UTM) ,
- M.Sc. (Chemistry) (UTM)
- PhD (Chemistry)(Durham University)

**Specialisation(s)**
- Electroanalytical Chemistry and Materials Chemistry

**Expertise**
- Conducting polymers
- Carbon Nanotubes

A00670
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**Year of Appointment**: 1982

**Working Experience (As Academician)**: 30 years

**Qualifications**
- Graduated in Physics and a Master Degree in Solid State Physics from the University of Iowa, USA in 1981
- PhD in Materials Science from the University of Manchester Institute of Science and Technology (UMIST) in 1993

**Professional Affiliation(s)**
- Member of American Association of Physics Teachers (AAPT, USA), Institute of Physics Malaysia,
- Life member of Malaysian Association of Solid State Sciences (MASS)
- Member/treasurer of Asian Physics Education Network Malaysia (ASPEN)

**Specialization (s)**
- Materials Science

**Expertise**
- Dielectrics for electronics applications
- Multifunctional ceramics; ceramic-metal composite, ceramic coatings, porous ceramics and high temperature thermal insulation

## A01269
## Zainal Abidin Talib

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**Year of Appointment**: 1985

**Working Experience (As Academician)**: 27 years

**Qualifications**
- Southern Illinois University Carbondale, Illinois, USA - 1979/90
- B.Sc. Physics ( ), M.Sc. Physics ( ), Ph.D. Molecular Science ( )

**Professional Affiliation(s)**
- Treasurer, The Malaysian Solid State Science Society
- Fellow, The Malaysian Solid State Science Society

**Specialisation(s)**
- Material Physics / Material Science

**Expertise**
- Semiconductor (Selenium-based system)
- Dielectric properties of glasses
- Electrical transport of conducting polymer

## A02715
## Zainidin Eshkuvatov

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**Year of Appointment**: 2004

**Working Experience (As Academician)**: 9 years

**Qualifications**

- MSc and Bachelor degrees in 1983-1988, National University of Uzbekistan. Tashkent, Uzbekistan
- PhD in Physics and Mathematics. October 25, 2001, National University of Uzbekistan. Tashkent, Uzbekistan.

**Professional Affiliation(s)**

- Institute of Mathematics of Academy of Sciences of Uzbekistan. PhD student, September 1990, December 1993, Tashkent, Uzbekistan.
- Institute of Mathematics of Academy of Sciences of Uzbekistan, Scientific researcher, September 1988, December 1990, Tashkent, Uzbekistan.
- Department of Computational Mathematics, Faculty of Applied Mathematics and Mechanics, Tashkent State University, Student, September 1983, July 1988, Tashkent, Uzbekistan.

**Specialization(s)**

- Computational Mathematics

**Expertise**

- Integrations and Integral Equations

A03134
## Zanariah Abdul Majid
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**Year of Appointment**: 1990

**Working Experience (As Academician)**: 22 years

**Qualifications**

- B.A. (Mathematics), Macalester College, St. Paul, Minnesota, USA.
- M.A. (Mathematics), Eastern Michigan University, Ypsilanti, Michigan, USA.
- Diploma Education (Mathematics), Universiti Kebangsaan Malaysia.
- PhD (Applied Mathematics), Universiti Putra Malaysia, Malaysia.

**Professional Affiliation(s)**

- Institute for Mathematical research, University Putra Malaysia
- International Association of Engineers (IAENG)
- World Scientific and Engineering Academy and Society (WSEAS)
- Malaysian Mathematical Sciences Society

**Specialisation(s)**

- Numerical Analysis
- Parallel computing

**Expertise**
- Numerical solution of Ordinary Differential Equations
- Boundary Value Problem
- Delay Differential Equations
- Multistep Methods
- Runge-Kutta Methods
- Block Method
- Parallel Computing using MPI for Solving Large Scale Problem

## A00943
## Zarina Bibi Ibrahim
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**Year of Appointment**: 1986

**Working Experience (As Academician)**: 26 years

**Qualifications**
- B. A. (CSU Long Beach, USA)
- M.A. (CSU Long Beach,USA)
- Ph.D. (UPM, Malaysia)

**Specialisation(s)**
- Numerical Analysis

**Expertise**
- Implicit Block Method
- Multistep Method in Backward Difference Formulations
- Block Multistep Formulas for Solving Ordinary Differential Equations
- Parallel Partitioning Techniques Using Multistep Formulas for Solving Ordinary Differential Equations
- Multistep Block Methods.

## A1201
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**Year of Appointment**: 1989

**Working Experience (As Academician)**: 23 years

**Administrative Position (If Any)**
- Deputy Dean (Graduate and Research)

**Qualifications**
- Sm. Sn. (Hons.) (UKM, Malaysia);
- Ph.D. (UMIST, UK)

**Professional Affiliation(s)**
- Member, Malaysian Institute of Chemistry

**Specialisations**
- Chemistry

**Expertise**
- Materials Chemistry
- Physical Chemistry
- Electrochemistry

A02119
## Zulkifly Abas
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**Year of Appointment**: 1987

**Working Experience (As Academician)**: 25 years

**Qualifications**
- B.Sc. degree with honours in physics from the University of Malaya, Kuala Lumpur, in 1986
- M.Sc. degree in microwave instrumentation from the University Putra Malaysia (UPM), Serdang, in 1994
- Ph.D. degree in electronic and electrical engineering from the University of Leeds, Leeds, U.K., in 2000

**Professional Affiliation(s)**
- Member of IEEE,IEICE, MASS

**Specialisation(s)**
- Microwave Instrumentation and Electromagnetic Wave Interaction between Microwave Sensors and Materials

**Expertise**
- Development of Microwave Sensors and Instrumentation for Industrial and Scientific Applications