

Prof. E. Arunan

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Educational Background

B. Sc. (Chemistry), The American College, Madurai. 1982
M.Sc (Chemistry, 1984) IIT Madras and **M. Tech (Chemical Analysis, 1986)** IIT Delhi.
Ph. D. Kansas State University (1991), Adviser: Prof. D. W. Setser

Work Experience

Post-doctoral work at University of Illinois at Urbana-Champaign, Prof. H. S. Gutowsky 1992-1994
Assistant Professor, Department of Chemistry, IIT, Kanpur. 1995-1997.
Moved in June 1997 to the Department of Inorganic and Physical Chemistry, IISc, Bangalore and became a **Professor** in 2009 and **Chairman** in 2018.

Research Interests

Experimental physical chemistry, Molecular and van der Waals spectroscopy, chemical kinetics and dynamics, hydrogen bonding and other intermolecular bonds/interactions, shock wave interactions with molecules and materials, astrophysics/astrochemistry.

Research Publications

About 100 publications in peer reviewed international Journals, 14 in International Conference proceedings, 8 in Resonance, the Journal of Education and 16 in Current Science, published by the Indian Academy of Sciences. The complete list of publications available in my website:
<http://ipc.iisc.ac.in/arunan.php>

Google Scholar: <https://scholar.google.co.in/citations?user=0jhq9c8AAAAJ&hl=en&oi=ao>

ORCID: <https://orcid.org/0000-0001-9669-4307>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57199507593>

Invited Talks/Seminars/Lectures

Have given numerous plenary, key note and invited lectures all over India and many countries in the world including U.S.A, U.K, France, Germany, Italy, Poland, Spain, Portugal, Hungary, Finland, Russia, Australia, Czech Republic, China, Pakistan, Bangladesh, Singapore and South Korea. Given invited talks at most of the premier institutes in India and also in small colleges and high schools all over India. Given invited lectures at Universities, *including at* University of California, Berkeley; Stanford University; Rowland Institute at Harvard University; University of Colorado, Boulder; Wesleyan University; University of Connecticut; Kansas State University; National Oceanographic and Atmospheric Agency, Colorado;

University of Massachusetts, Amherst; Moscow State University, Moscow; Fritz Haber Institute, Berlin; Warsaw University, Poland; Milan Technical University, Italy; University of Rennes, France; Universidad del País Vasco, Spain; Czech Academy of Sciences, Prague.

Awards and Activities

Plenary Lecture at the 7th Asian Spectroscopy Conference, Singapore, Conducted online, National Technological University, Singapore December 2020.

Alumni Award for Excellence in Research for Science for the year 2020, awarded by the Indian Institute of Science.

Editor, Volume 100, issue 1 of the Journal of the Indian Institute of Science, January 2020, on 100 years of hydrogen bonding.

Member of the Editorial Board for the Journal of Molecular Spectroscopy 2014-2017 and 2020-2023

National Prize for Chemical Spectroscopy and Molecular Structure, CNR Rao Research Foundation, 2019

International Advisory Board Member for the First International Conference on Non-Covalent Interactions, Given keynote lecture. Lisbon, Portugal September 2019.

Keynote Lecture at the European Congress on Molecular Spectroscopy 2018, August 2018, Coimbra, Portugal.

Editorial Board of the Journal of the Indian Institute of Science 2018 -

Plenary Lecture at the 22nd Horizons in Hydrogen Bond Research Conference, September 2017, Finland

Editor of the Journal of Molecular Structure Since 2016

Fellow of the National Academy of Sciences, India 2015

Guest Member of the Editorial Board 67th Annual Reviews in Physical Chemistry 2016

Member of the Editorial Board for the Journal of Molecular Spectroscopy 2014-2017

Fellow of the Royal Society of Chemistry 2014

PRL Colloquium at Physical Research Laboratory, Ahmedabad, 27 November 2013

ASET Colloquium at Tata Institute of Fundamental Research, Mumbai, 8 Nov 2013.

Royal Society Travel Grant to visit 12 Universities in the USA and attend Molecular Spectroscopy and Shock Wave symposium June-July 2013.

A.V.Ramarao Foundation Prize Lecture at the Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore. April 2013

Fellow of International Union of Pure and Applied Chemistry 2011

Member of the International Advisory Board for 'Horizons in Hydrogen Bond Research" Conference 2011 –

Member of the International Advisory Board for the Asian Spectroscopy Conference 2009-2013 and Currently a member in

Fellow of the Indian Academy of Sciences, 2009

Member of the Programme Advisory Committee on Physical Chemistry, Department of Science and Technology 2008-2012.

Member of the International Advisory Editorial Board for Physical Chemistry Chemical Physics, Royal Society Publication, From 2005.

Section Editor (Chemistry) for Current Science from 2018; **Associate Editor** from 2013, and in the

editorial board since 2008

Associate Editor for Journal of Chemical Sciences from 2012-2016; in the editorial board since 2008

Recipient of Chemical Research Society of India Bronze Medal 2008

Chairman of IUPAC Task Group on Hydrogen bonding and other molecular interactions. Redefined hydrogen bonding in 2011.

Member of the International Advisory Board for the International Symposium on Shockwaves from 2005.

Founder Member/Veice-President of the Indian Society for Shockwave Research 2004.

Member of International Union of Pure and Applied Chemistry since 2004

Member of Chemical Research Society of India since inception, 1999

KSU Department of Chemistry Award for Excellence in Research, 1991.

KSU Phi Lambda Upsilon Graduate Student of the Year Award, 1989.

Member of Phi Lambda Upsilon, an Honourary Chemical Society in U.S.A. since 1988

Member of the American Chemical Society since 1987

Personal information.

Born to Mr. G. Elangannan and Mrs. E.

Chellammal on 11th May, 1961 in Madurai, India.

Married to Ms. Thenmozhi, M.S. (Computer science) and have two daughters Dr. Bharathi, MBBS (born 1994) and Indumathi, Master of Environment (born 1996).

