



**ENI AWARD
2020**

Energy Frontiers

***Chintamani
Nages
Ramachandra
Rao***

Winner

Solar Photochemical and thermal splitting of water using BCN, MoS₂ and other materials to generate hydrogen, and energy devices based on layered materials

Biography

C.N.R. Rao (born on 30 June 1934, Bangalore, India) received the M.Sc. degree from Banaras, Ph.D. from Purdue, D.Sc. from Mysore universities. He is Honorary President and Linus Pauling Research Professor at the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. He is also an Honorary Professor at the Indian Institute of Science, Bangalore. His main research interests are in solid state and materials chemistry. He is an author of over 1770 research papers and 53 books. He has received honoris causa doctorate degrees from 83 foreign and Indian universities.

Prof. Rao is a member of several of the science academies in the world, including the Royal Society, London, the National Academy of Sciences, U.S.A., the Russian, French and Japan Academies as well as the American Philosophical Society. He is a Member of the Pontifical Academy of Sciences and Foreign Fellow of Academia Europaea, the Royal Society of Canada and the Chinese Academy of Sciences. He is a distinguished visiting professor of the University of California.

Among the various medals, honours and awards received by him, mention may be made of the Marlow Medal of the Faraday Society (1967), Bhatnagar Prize (1968), Royal Society of Chemistry (London) Medal (1981), Padma Vibhushan (1985), Honorary Fellowship of the Royal Society of Chemistry, London (1989), Blackett Lectureship of the Royal Society (1991), Einstein Gold Medal of UNESCO (1996). He received the Centenary Medal of the Royal Society of Chemistry (2000), Hughes Medal of the Royal Society for original discovery in physical sciences (2000), the Order of Scientific Merit (Grand-Cross) from the President of Brazil (2002) and the Somiya Award of the International Union of Materials Research (2004).

He is the first recipient of the India Science Award by the Government of India and received the Dan David Prize for science in the future dimension for his research in Materials Science in 2005. He has received the Chevalier de la Légion d'Honneur by the President of the French Republic (2005) and the Nikkei Asia Prize for Science, Technology and Innovation in 2008. He was awarded the Royal Medal by the Royal Society (2009) and the August-Wilhelm-von-Hoffmann Medal by the German Chemical Society (2010). He received the Ernesto Illy Trieste Science Prize for materials research in 2011 and was Albert Einstein Professor of the Chinese Academy of Sciences in 2012. The President of India conferred the highest civilian award Bharat Ratna in 2014. The Emperor of Japan bestowed the Order of the Rising Sun, Gold and Silver Star in 2015. He was conferred the von Hippel award of the Materials Research Society, US in 2017.