Dr. KUMAR JANAKIRAMAN

Name: Dr. J. KUMAR

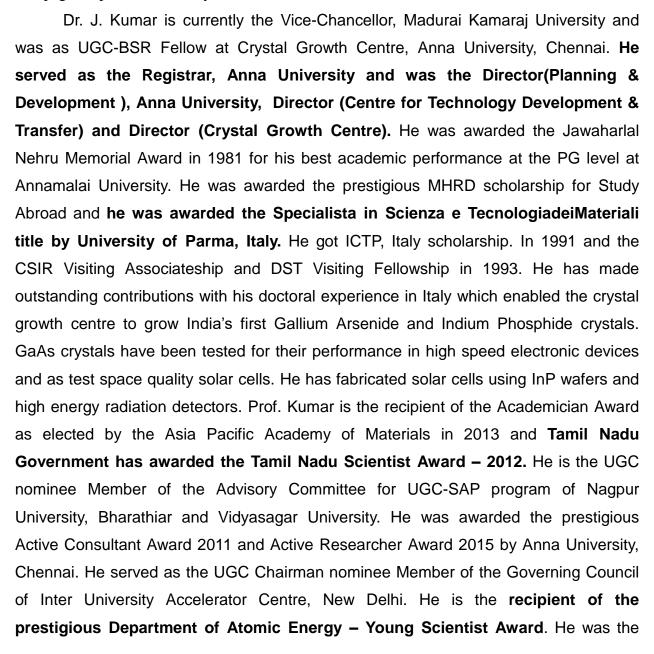
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planning committee member on the committee on crystal growth, solar energy chaired by the Principal Scientific Advisor to the Government of India. He served as the Executive committee member of TNSCST. Prof Kumar has delivered 40 special lectures for the country wide classroom program of UGC. Coordinated 3 courses with support from Global Initiatives on Academic Networking (GIAN) program of MHRD. **Member representing India in the International Union of Crystallography commission on Crystal Growth.**

Prof. Kumar and coworkers have been able to bring together a team which successfully implemented the major project with a grant of Rs. 6.3 crores from the Department of Science and Technology, Government of India - Metal Organic Chemical Vapour Deposition system the first of its kind in any Indian Universities has been established. Prof Kumar and coworkers got major support of rupees 50 lakhs from Tamil Nadu Government as seed grant which enabled the establishment of class 10000 clean room facility to initiate the activity on white LED light. Prof Kumar has been teaching Undergraduate and Postgraduate students since he joined as faculty in 1989 and has guided 24 students for Ph.D title and is guiding 3 Ph.D. students. Prof. Kumar and coworkers have contributed towards the development of the crystal growth centre during his tenure as Director, Crystal Growth Centre during 2006-09, with significant increase in research grants to the centre and coordinating several programs of advanced training and research though the CGC :UGC-AU facility for crystal growth. Dr Kumar has organized several national and international conferences, workshops and training programs.

Prof Kumar has **authored 4 books on Engineering Physics** 2 chapters in the Tamil book on Engg Physics. He has visited Italy, USA, Germany, England, South Korea, France, Sweden, Switzerland, Taiwan, Thailand, China, Singapore, Dubai, Muscat, Sharjah, Japan, Austriaand had carried out research activities. He has published 170 articles in national and international journals and has delivered more than 160 invited lectures in conferences & training programs at national & international level. He was the coordinator for the Knowledge Economy Program supported by the British Council. The nominee is very fluent with Italian language and has also a certificate in German Proficiency. He has interacted with all national laboratories on semiconductor related electronic materials: TIFR; IIT - Delhi, Chennai, Mumbai and Kharagpur; C-MET, Hyderabad; IISc. Bangalore; IISER-Trivandrum, CAT-Indore, NPOL-Kochi, SSPL-Delhi, CCERI- Pilani IUAC, Delhi&IGCAR, Kalpakkam. Prof. Kumar has implemented DST supported international collaboration program with IMEM, Parma Italy and has enabled the MoUs between Dong-eui University, Busan- Korea; Dongguk University, Seoul - Korea; University of Illinois, Chicago – USA with Anna University Chennai; IITM-Chennai & NITTR-Chennai.

Prof. Kumar served as a member of the XI Plan proposal formulation team on Photonics formed by the Principal Scientific Advisor to the Prime Minister and also a member of the UGC's XI Plan committee on Inter University Centre. He has implemented research projects and schemes funded by DST, UGC, IUAC, DRDO, TWAS-Italy, European Union, MIT worth more than 10 Crores of rupees.**Prof Kumar has worked as Researcher at INFM- University of**

Lecce, Italy during 2000-02, Visiting Professor at University of Illinois, Chicago, USA in 2006, Dongguk University, Seoul, Korea during 2009-10 and at University of North Carolina, Charlotte, USA as a Distinguished Duke Visiting Faculty during 2013. He has written scientific articles in Tamil to popularize the scientific advancements and the Vice President, Academy of Sciences and with the programs of Periyar Science and Technology Centre in popularizing and advancing science programs to the society at large. Prof Kumar has been invited by All India Radio to speak on Science several times and his lecture on crystal growth presented by Doordarshan attracted repeat telecast of the program. Prof Kumar with coworkers have been granted a Patent (282117 -18/10/2010): A process to characterize biochemical reactions using sensor instrumentation based on capacitance and conductance change. He has Patent on NO sensors using PGE/GaN - (336780-13/05/2020) Disposable Nitric Oxide Sensor Construction Using Gallium Nitride Nano wires and its Method Thereof. He has Patent on Design no: 379563-01 dt.17.02.23 – Biosensor based biotech device for protein detection

He is the recipient of the Tamil Nadu Scientist Award for Physical Sciences.

He has translated a book on Mahabhartham and on Ramayanam in Italian from speech delivered in Tamil by ThiruSivakumar.

In 2023 had published a book in Tamil on Electronics, Photonics and Spintronics -மின்னணுவியல்,ஒளித்துகளியல், சுழல் மின்னணுவியல்