


Brief Biodata

Name: Dr. Jeyakumar Ramanujam

Designation:	Principal Scientist	
DP No. and Name:	4.01, Photovoltaic Metrology	
DU No. and Name:	4.0 Advanced Materials and Device Metrology	
Email:	ramanuj@nplindia.org jkrnaidu2409@gmail.com	
Date of Joining CSIR-NPL:	November 18, 2011	
Phone (office)	+91-11-45608581	
Mobile (optional)	--	

Research Area/ Interest

Perovskite solar cells, Thin film solar cells, c-Si solar cells, Semiconductor materials and devices, Device characterization

Educational Qualifications

Degree	Subject	University/ Institute	Year
PhD	Physics	University of Delhi and National Physical Laboratory	1998
M.Sc	Physics	Madurai Kamaraj University	1988
B.Sc	Physics	Madurai Kamaraj University	1986

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Principal Scientist	CSIR-National Physical Laboratory	2011	Present	Solar cells
Scientist	McMaster University	2009	2011	Solar cells
Postdoctoral Fellow, Manufacturing Associate	University of Waterloo, RIM, Accu-Tech	2000	2009	Solar cells, Semiconductor devices
Research Associate	CSIR-National Physical Laboratory	1998	2000	Solar cells

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non SCI Journals	No. of Publications in Conference Proceedings	Books	Total
31	-	21	-	52

Selected Recent Publications

Methylammonium lead bromide based planar perovskite solar cells using various electron transport layers

Solar Energy 221, (2021) 456–467 (12p)

Flexible CIGS, CdTe and a-Si:H based thin film solar cells – A Review

Prog. Mat. Sci., 110, (2020) 100619 (20p)

Copper indium gallium selenide based solar cells – a review

Energy & Environmental Science, 10, (2017) 1306-1319 (14p)

Inorganic photovoltaics - Planar and nanostructured devices

Prog. Mat. Sci. 82, (2016) 294-404 (111p)

c-Si solar cells formed from spin-on phosphoric acid and boric acid

Renewable Energy, 80, (2015) 80-84 (5p)

Current Activities

Highly efficient and low-cost solar cells – Fabrication and characterization

Any other Information

Associate Editor, Solar Energy (Elsevier) Journal