

DEPARTMENT OF PHYSICS – PROJECTS (AS ON MARCH 2020)

EXTERNALLY FUNDED PROJECTS

Sl. No	Title of The project	PI/CoPI	Funding Agency	Sanctioned Amount in Lakhs (INR)	Status	Duration
1	Investigations on the Crystal Growth and Non-Linear Optical properties of Organic and Semi-Organic crystals.	Dr. N.P. Rajesh	DST	5.88	Completed	2006-2008
2	Investigation of materials in sonic band structures for possible use in stealth Applications	Dr. Prita Nair - PI Dr.A.Rajalakshmi - Co PI Dr.S.M.M.Kennedy - Co PI	NRB, DRDO	13.61	Completed.	2007-2009
3	Growth of large size KDP and ADP crystals by Sankaranarayanan-Ramasamy Method	Dr. P. Ramasamy	DST	18.74	Completed	2007-2010
4	Reconfigurable wavelength selective filter based on one dimensional photonic bandgap structures in silicon for ROADM applications	Dr. Prita Nair	AICTE	15	Completed.	2007-2010
5	Investigations on crystal growth and characterization of pure and rare earth doped KTP single crystals for electro-optic applications	Dr. N.P. Rajesh	DST	19.77	completed	2010-2012
6	Crystal Growth of Ce based alkali halides scintillator crystals and their characterization	Dr.G.Anandha babu - PI Prof. P.Ramasamy-Co-PI	DAE-BRNS	23.08	completed.	2011-2014
7	Improved growth of piezoelectric single crystal and characterisation towards piezoelectric device application	Prof. P.Ramasamy-PI Dr.G.Anandha babu -Co-PI	DST	29.4	completed.	2011-2014
8	Crystal growth of piezoelectric crystal and its characterisation	Dr.G.Anandha babu - PI	DST	14.16	completed.	2011-2014

9	Development of High Quality Direction Controlled Lithium Iodate and Lithium Sulphate Single Crystals for Nonlinear Optical applications	Dr.P.Rajesh - PI Prof. Dr.P.Ramasamy-Co-PI	DAE-BRNS	25	Completed	2012-2015
10	Crystal Growth of Alkaline Earth halide and cesium based Alkaline Earth halide scintillator crystals for Gamma Ray Spectroscopy	Prof. P.Ramasamy-PI Dr.G.Anandha babu -Co-PI	DAE-BRNS	24.82	Completed	2012-2015
11	Development and characterization of PMN-PT single crystals for under water applications".	Dr.N.P.Rajesh- PI, Dr.Prita Nair -- Co-PI	DST--SERB	40	Completed	2014-2017
12	Investigations on Crystal growth and characterization of Multiferroic single crystals	Dr.G.Anandha babu - PI	UGC-DAE	6.51	Completed	2014-2017
13	Development of improved DS process for mc-Si wafers and their application to solar cells	Prof. P.Ramasamy-PI Dr.G.Anandha babu -Co-PI	MNRE	465	On going	2015-2019
14	Growth and Characterization of defect controlled topological insulator Bi ₂ Te ₂ Se and Bi _{2-x} Sb _x Te _{3-y} Se _y single crystals	Dr.G.Anandha babu - PI	DST	18.8	On going	2016-2019
15	Growth of high quality homogeneous mixed crystals for optical applications	Dr.P. Rajesh - PI	CSIR	19.4	Ongoing	2016-2019
16	Fabrication of Nanobiosensor for Rapid, Low cost, Point of care detection of Alpha-Feto-Protein	Gayathri Gangadharan (PhD Scholar) Mentor: Dr. Prita Nair	DST -WOSA scheme	26	Ongoing	2017-2019
17	Near UV excitable, rare earth/transition metal ions activated Ba ₂ CaZn ₂ Si ₆ O ₁₇ Phosphor for White Light Emitting Diode Applications	S. Masilla Moses Kennedy - PI	DST-SERB	16.73	On going	2017-2020
18	Development of analytical & mass spectrometric methods to ascertain U-isotopic ratios along Tamilnadu coast.	Dr.A.Rajalakshmi - PI Dr.A.Chandrasekaran-Co-PI	DAE-BRNS	21.92	On going	2017-2020