

**SSN COLLEG OF ENGINEERING  
KALAVAKKAM - 603 110**

**LIST OF EXTERNALLY FUNDED PROJECTS**

<b>Sl. No.</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Funding Agency &amp; Amount</b>	<b>Duration</b>
1.	Investigations on the Crystal Growth and Non-Linear Optical properties of Organic and Semi-Organic crystals.	Dr. N.P. Rajesh Physics	DST Rs.5.88 Lakh	2006- 2008 (Three Years)
2.	Voice enabled documentation and mailing system in Indian languages for hand- held devices.	Dr. C. Aravindan CSE	AICTE Rs. 2.30 Lakh	2006-2008 (Three years)
3.	Friction stir welding of scandium added Al-Mg alloys	Dr. S. Vijayan Mechanical	NRB, DRDO Rs.23.94 Lakh	2007-2009 (Three years)
4.	Investigation of materials in sonic band structures for possible use in stealth Applications	Dr. 4 Nair Physics	NRB, DRDO Rs.13.61 Lakh	2007-2008 (Two years)
5.	Growth of large size KDP and ADP crystals by Sankaranarayanan-Ramasamy Method	Dr. P. Ramasamy Dean(Research)	DST Rs.18.74 Lakh	2007-2009 (Three years)
6.	Modernization of Power Electronics and Drives Lab	Dr. B.L. Mathur EEE	AICTE Rs.10.00 Lakh	2007-2008 (Two Years)
7.	Hybrid capacitor with nano-materials for zero emission vehicles	Dr. M. Siluvai Michael Chemistry	DST Rs.14.09 Lakh	2007-2009 (Three years)
8.	Reconfigurable wavelength selective filter based on one dimensional photonic bandgap structures in silicon for ROADM applications	Dr. Prita Nair Physics	AICTE s.15.00 Lakh	2007-2008 (Two years)
9.	Design of silicon carbide based hard-switched DC-AC power converter	Dr. B.L. Mathur EEE	AICTE Rs.5.00 Lakh	2007-2008 (Two years)
10.	Investigations on the bulk growth of unidirectional single crystals of benzophenone derivatives	Dr. P. Ramasamy Dean (Research)	AICTE Rs.10.00 Lakh	2007-2008 (Two years)
11.	Design and development of wireless sensor node	Dr. S. Radha ECE	IGCAR Rs.28.58 Lakh	2008 -2010 (Three years)
12.	Gas Tungsten arc assisted Friction Stir Welding of Steels	Dr. S.R. Koteswara Rao Mechanical	DST Rs.24.45 Lakh	2008-2010 (Three years)

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13.	FPGA Design for Pulsed Signal Processing	Ms. V.S. Kanchana Bhaskaran ECE	IGCAR Rs.5.00 Lakh	Ten months from April 2008
14.	Growth of I-III-VI <sub>2</sub> single crystals for IR applications and radiation detectors	Dr. P. Ramasamy Dean (Research)	BRNS 22.06 Lakh	2008 -2010 (Three years)
15.	Process variational study and performance analysis of nano-scale MOSFETS and FINFETS: TCAD simulation and process aware SPICE models	Dr. R. Srinivasan Dr. J. Raja IT	DST Rs.21.8 Lakh	2008 -2010 (Three years)
16.	Growth and Characterization of LiInS <sub>2</sub> and LiInSe <sub>2</sub> crystals for IR applications	Dr. P. Ramasamy Dean – Research	NRB Rs.32.68 Lakh	2009-2011 (Three years)
17.	Development and characterization of mixed alkali halide single crystals for radiation dosimetry applications in IGCAR	Dr. P. Ramasamy Dean(Research)	IGCAR Rs.11.00 Lakh	2009-2012 (Four years)
18.	Design and Hardware implementation of a programmable filter to improve the signal to noise ratio due to wind driven ambient noise in shallow water	Dr. S. Radha Mr. S. Sakthivel Murugan ECE	NIOT Rs.20.64 Lakh	2009 -2011 (Three years)
19.	Investigations on crystal growth and characterization of pure and rare earth doped KTP single crystals for electro-optic applications	Dr. N.P. Rajesh Physics Dr. P. Ramasamy Dean(Research)	DST Rs.19.78 Lakh	2010 to 2013 (Four years)
20.	An assessment and intelligibility modifications system for Dysarthric Speakers	Dr. P. Vijaya lakshmi, ECE Dr. T. Nagarjan, IT	AICTE Rs.9.00 Lakh	2011 to 2013 (Three years)
21.	Improved growth of lead-free piezoelectric single crystal (Na <sub>x</sub> Bi <sub>1-x</sub> ) TiO <sub>3</sub> -BaTiO <sub>3</sub> and characterization towards piezoelectric device applications	Dr. P. Ramasamy Dean(Research) Dr. G. Anandha Babu	DST Rs. 29.40 Lakh	2011 to 2013 (Three years)
22.	Crystal Growth of Ce based alkali halides scintillator crystals and their characterization	Dr. G. Anandha Babu	BRNS Rs. 22.08 Lakh	2011 to 2013 (Three years)
23.	Visible light active metal and non-metal doped mesoporous TiO <sub>2</sub> nanoparticles for photocatalytic applications	Dr.M.Mahalakshmi Chemistry	DST Rs.26.00 Lakh	2011 to 2013 (Three years)
24.	Crystal Growth of lead free piezoelectric crystal [Bi <sub>0.5</sub> (Na <sub>1-x</sub> K <sub>x</sub> ) <sub>0.5</sub> ]TiO <sub>3</sub> by flux technique and its Characterization	Dr. G. Anandha Babu	DST Rs.14.16 Lakh	2011 to 2013 (Three years)

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25.	Study and Control of Weak Grid Connected Matrix Converter based DFIG System	Dr. Rangnath Muthu, EEE Mr. M. Senthil Kumaran	MNRE 7.75 Lakh	2011 to 2013 (Three years)
26.	Development of Text to Speech System in Indian Languages Phase II (Consortium of 12 institutions)	Dr. T. Nagarajan, Dr. A. Shanina, IT Dr. P. Vijaya lakshmi, ECE	DIT Rs.76.6 Lakh	2011-2013 (Three Years)
27.	Study of soft errors in 65nm gate length CMOS SRAM and 30nm gate length fin FET tunnel FET and junction less FET based SRAMS using TCAD simulations	Dr. R. Srinivasan IT	DRDO Rs.30.47 Lakh	2011-2013 (Three Years)
28.	Amorphous Silicon Thin Films for Microbolometers	Dr. Shekhar Bhattacharya	SSPL Rs. 9.5 Lakh	2011 (one year)
29.	Research Investigations on amorphous silicon thin film photo-voltaics	Dr. Shekhar Bhattacharya	DRDO Rs.87.74 Lakh	Jan 2011 to Dec 2013 (Three Years)
30.	Investigations on various doped ZnO films as front contact TCO in flexible amorphous silicon solar cells	Dr. Balaji Bhargav Mr Nafis Ahmed	UGC-DAE:CSR Rs.6.50 Lakh	2012-2014 (Three years)
31.	“Investigation on Crystal growth and Characterization of Multiferroic single crystals”	Dr. G. Ananda Babu Prof.P.Ramasamy	UGC-DAE CSR Rs.8.00 Lakh	2012 – 13 Three Years
32.	Crystal growth of alkaline earth halide and cesium based alkaline earth halide scintillation crystals for gamma ray spectroscopy	Dr. G. Anandha Babu, Physics Dr. P. Ramasamy, Dean (Research)	BRNS Rs.24.82 Lakh	2013 - 2016 (Three years)
33.	Development of High Quality Direction Controlled Lithium Iodate and Lithium Sulphate Single Crystals for Nonlinear Optical applications	Dr.P.Rajesh, Physics Dr. P. Ramasamy, Dean(Research)	BRNS Rs.23.04 Lakh	2013 - 2016 (Three years)
34.	Development of cascaded Z-source multilevel inverter for photovoltaic applications	Dr.R.Seyezhai EEE	AICTE Rs.23.83 Lakh	2013 - 2016 (Three years)
35.	Experimental and finite element investigations of the machining process with composite materials	Dr.K.S.Vijay Sekar Mechanical	AICTE Rs.18.21 Lakh	2013 - 2016 (Three years)
36.	FIST Programme – To strengthen Research Facilities	Dr. S. Radha ECE	MST – DST Rs.50 Lakh	2013 - 2018

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37.	Modernization of High Voltage Lab as a Unified Power Engg. Lab with Eelectromechanical energy conversion, power electronics and power systems experiments	Dr. V. Rajini EEE	AICTE Rs.19.51 Lakh	2013 (One Year)
38.	Unidirectional and bulk growth of high quality nonlinear optical (NLO) 2-amino-5-nitropyridinium (2A5NP) derivative single crystals for second harmonic generation (SHG) device applications.	Dr.M.Senthil Pandian SSN RC	DST-SERB 16.61 Lakh	2013 – 2017 (Four Years)
39.	Magnetic Moulding of Al/SiCp metal Matrix Composites – Start-up Research Grant (Young Scientists)	Dr. B. Anand Ronald Mechanical	DST 9.26 Lakh	2013 – 2016 (Four Years)
40.	Industry Institution Interaction Partnership Programme	Dr. Ve. Annamalai, Mechanical	AICTE Rs.11 Lakh	2013 – 2016 (Three Years)
41.	Hardware implementation of SPWM control for Standalone Hybrid Renewable Energy using DSP processor	Dr.B.S.Sreeja Dr.S.Radha ECE	LUC, Malaysia 4.38 Lakh	2014 - 2015 1 Year
42.	Development and characterization of PMN-PT single crystals for under water applications	Dr. N.P. Rajesh Dr. Prita Nair Physics	DST-SERB Rs.35.55 Lakh	2014 – 2017 (Three Years)
43.	Reliability of Fuzzy Hidden Markov Model & Intuitionistic Fuzzy Markov Model	Dr.R.Sujatha Mathematics	DST – SERB 10.14 Lakh	2014 – 2017 Three years
44.	Markov approach for reliability assessment of safety critical software	Dr.R.Sujatha Dr.Narasimhan Mathematics	AERB 5.81 Lakh	2013 – 2015 Two years
45.	Novel fused converter for hybrid wind solar systems for powering rural telephony	Dr. V. Rajini EEE	MNRE 34.00 Lakh	2014 – 2016 Two Years
46.	Fabrication of solid state dye sensitized solar cell for stability enhancement and improvement performance.	Prof.P.Ramasamy Dean(Research) Dr.M. Senthil Pandian	DST-SERI Rs.53.38 Lakh	2014-2017 (Three years)
47.	Development of improved DS process for mc-Si wafers and their application to Solar Cells	Dr.P.Ramasamy Dr.G.Anandha Babu	MNRE 468.42 Lakh	2014 – 2018 4 years
48.	Investigation on thermally stable polyanion electrodes for Li-ion batteries	Dr.Siluvai Michael Chemistry	NRB 24.9 Lakh	2014 – 2017 Three years

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49.	Synthesis of mesoporous one dimensional TiO <sub>2</sub> and ZnO <sub>2</sub> nanostructures and their characterization for Dye synthesized solar cell	Prof.P.Ramasamy Dean(Research) Dr.M. Senthil Pandian	UGC-DAE CSR / Rs.10.76 Lakh	2014-2017 (Three years)
50.	Nano catalyst embedded hierarchically porous carbon air cathode for Li/Air rechargeable batteries	Dr.Siluvai Michael Chemistry	DST 39.02	2014 – 2017 Three years
51.	Development of Lead free piezoelectric 0.94 Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -0.06 BaTiO <sub>3</sub> single crystals for transducer applications	Dr.G.Anandha Babu Dr. P. Ramasamy	DRDO Rs. 50.25 Lakh	2015-2018 (Three years)
52.	Design and development of hybrid switched reluctance motor drive	Dr.M.Balaji EEE	DST 22.90	2015 – 2018 Three years
53.	Design and development of flywheel based power conditioning system for a renewable energy fed microgrid	Ms.M.Vijayalaksh mi Dr.R.Ramaprabha EEE	DST 20.00	2015 – 2018 Three years
54.	Study of mechanical properties and surface features of steels quenched in CNT nanofluids.	Dr.K.Babu Mechanical	AICTE Rs.9.41 Lakh	2015-2018 (Three years)
55.	Design and development of novel handle shapes to overcome vibration discomfort.	Dr.M.S.Alphin Mechanical	DST-SERB Rs.18.86 Lakh	2015-2018 (Three years)
56.	Solvent screening, Synthesis, Characterization and Application of potential solvent for removal of endocrine disrupts chemicals from water matrices	Dr.R.Anantharaj Chemical	DST-SERB Rs.19.47 Lakh	2015-2018 (Three years)
57.	Investigation on the effect of gene and protein mutants in the onset of neuro-degenerative brain disorders (alzheimers' disease and parkinson's disease): a computational study	Dr. Shomona Gracia Jacob CSE	DST-SERB Rs.16.10 Lakh	2015-2018 (Three years)
58.	Preliminary studies and control algorithms for Axial Flux Switched Reluctance Motor	Dr. P. Saravanan	DST-SERB 5.5 Lakh	2016-2017 1 Year
59.	Reclamation Of Abrasives From Bonded Coated And Sanitary Ware Rejects	Dr.V.E.Annamalai Mechanical	DST Rs.74.16 Lakh	2016-2019 3 Years
60.	High Quality Unidirectional 4-Nitrophenol Derivative Single Crystals for SHG Device Applications	Dr.M.Senthil Pandian Dr.P.Ramasamy SSN RC	BRNS Rs.25.32 Lakh	2016-2018 3 Years
61.	Design and development of Axial Flux Switched Reluctance Motor based Battery Operated Vehicle	Dr.P.Saravanan EEE	DST-SERB Rs. 36.26 Lakh	2016-2018 3 Years

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62.	Growth of direction controlled homogenous mixed crystals for optical applications	Dr.P.Rajesh Physics Dr.P.Ramasamy SSN RC	CSIR Rs.18.63 Lakh	2016-2018 3 Years
63.	Friction surfacing for repair of alloy 718 components	Dr. R. Damodaram Mechanical	DST-SERB Rs.27.90 Lakh	2016-2018 3 Years
64.	Speech Enable Interactive Enquire System In Tamil	Dr. T. Nagarajan IT	TVA Rs.9.52 Lakh	2016 6 Months
65.	Growth and characterization of defect controlled topological insulator $\text{Bi}_2\text{Te}_2\text{Se}$ and $\text{Bi}_{2-x}\text{SbxTe}_3\text{-ySey}$ single crystals	Dr.G.Anandha Babu Dr.P.Ramasamy	DST-SERB Rs.18.80 Lakh	2016-2018 3 Years
66.	Creation of design and fabrication lab for experimental learning	Dr. V.E.Annamalai Mechanical	AICTE- MODROBS Rs.5.94 Lakh	2014-2015 1 Year
67.	A study on fuzzy hidden markov chain with states depending on observation	Dr. V.Sharmila Dr.R.Sujatha Mathematics	DST-WOS Rs.13.91 Lakh	2015-2018 3 Years
68.	Design of 3D Prosthetic limbs	Dr. A. Kavitha, BME Ms. R. Nithya, BME Ms. D. Kanchana, BME	Horizon Engineering Solutions, Waterloo, Canada Rs.7.0 Lakh	2016 (One Year)
69.	Speech-input speech-output communication aid for speakers with cerebral palsy	Dr.P.Vijayalakshmi Dr. T. Nagarajan ECE	DST- SEED - TIDE Rs.13.72 Lakh	2017-2019
70.	The feasibility of band width enhancement of reflect array antenna at Ku band for conventional and shaped beams	Dr.K.T.Selvan ECE	ISRO Rs.12.81 Lakh	2017-2019
71.	Fabrication of nanobiosensor for rapid, low cost and point care detection of alpha fetoprotein	Ms. Gayathri Gangadharan, Dr. Prita Nair	DST-WOS- A Rs. 26.0 Lakh	2017-2020 3 Years
72.	Fabrication of stable Perovskite solar cells using inorganic hole transport materials	Dr.M.Senthil Pandian Dr.P.Ramasamy SSN RC	DST-SERI Rs.77.74 Lakh	2017-2020
73.	Investigation on rare earth doped CsI single crystals for scintillation applications	Dr.N.P.Rajesh Dr.P.Ramasamy SSN RC	SERB Rs.24.35 Lakh	2017-2019

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74.	Design and development of a computer controlled system for the production of textile antennas and sensor	Dr. Esther Florence ECE	SERB Rs.30.96 Lakh	2017-2019
75.	Design, development and implementation of networked reconfigurable in-pipe robots for inspection and scavenging applications	Dr.G.Satheesh Kumar Mechanical	SERB Rs.40.27 Lakh	2017-2019 3 Years
76.	Investigations on Wire Electrical Discharge Machining (WEDM) of low conductive materials	Dr. G. Selvakumar Mechanical	SERB Rs.31.92 Lakh	2017-2019 3 Years
77.	HMM-based Text-to-Speech Synthesis System for Malaysian Tamil	Dr. T. Nagarajan, IT Dr. P. Vijayalakshmi ECE	Murasu Sys SdnBhd, Malaysia Rs. 4 Lakh	Nov. 2016 – Jul. 2017 9 Months
78.	Impact of climate change and chloride induced corrosion damage risks of concrete infrastructure deterioration along coastal regions of India	Dr. S. Muthulingam Civil	SERB - DST Rs.33.32 Lakh	2017-2020 (3 years)
79.	Potential Applications of Mega - Sonics (High frequency ultrasound) in CO <sub>2</sub> capture solvents regenerations: An initial approach	Dr. B. Ambedkar Chemical	DST-SERB (EEQ) Rs. 26.52 Lakh	08-12-2016 (3 Years)
80.	Potential applications of ionic liquids in CO <sub>2</sub> capture process for sustainable energy and environment	Dr. J. Dhanalakshmi Dr.B.Ambedkar Chemical	DST-SERB (ECR) Rs. 26.52 Lakh	11-01-2017 (3 Years)
81.	Omni-Directional to Directional Pattern Switching Patch Antenna for Wireless Sensor Nodes at Reactor Containment Building	Dr. B. Sreeja Dr. S. Radha ECE	BRNS Rs. 24.96 Lakh	2017-2020 (Three Years)
82.	Development of ultra low thermal conductivity high performance thermoelectric TlBiSe <sub>2</sub> and TlBiS <sub>2</sub> Single crystals	Dr. K. Aravindh Physics	DST-SERB Rs.24.3 Lakh	2017-2020 (Three Years)
83.	Production and commercialisation of 3D printed exoskeleton for rehabilitative and assistive purposes	Dr. A. Kavitha Ms. R. Nithya BME	Recycl3D Canada Rs.5.0 Lakh	2017-2018 (18 Months)
84.	Near UV excitable, rare earth / transition metal ions activated Ba <sub>2</sub> CaZn <sub>2</sub> Si <sub>6</sub> O <sub>17</sub> Phosphor for White Light Emitting Diode Applications	Dr. S. Masilla Moses Kennedy Physics	DST-SERB 17.94 Lakh	2017-2020 (Three Years)
85.	Design and Development of Energy Efficient Permanent Magnet Assisted Reluctance Motor Drives for Pump Application	Dr. V. Kamaraj EEE	DST-SERB Rs.21.19 Lakh	2017-2020 (Three Years)
86.	Implementation of magnetic induction (MI) based wireless underground sensor network (WUSN) system for smart irrigation	Dr. S. Sakthivel Murugan ECE	TNSCST Rs.7.35 Lakh	2017 – 2019 (Two Years)

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87.	A low cost minimal footprint single phase solid waste transformer for low/medium voltage applications	Dr. V. Rajini EEE	AICTE-RPS Rs.19.82 Lakh	2017-2019 (Three Years)
88.	Establishment of Microwave and Antenna Testing Laboratory under MODROBS	Dr. S. Radha ECE	AICTE MODROBS Rs.8.75 Lakh	2017-2019 (Two Years)
89.	Growth of optical quality stilbene and triphenyl derivatives for high energy neutron detection	Dr. P. Rajesh	SERB-EMR Rs.19.51 lakh	2017 - 2020 (Three Years)
90.	Fabrication of Stable Perovskite Solar Cells using Inorganic Hole Transport Materials	Dr. M. Senthil Pandian Research Centre	DST Rs.77.74 Lakh	2017 – 2020 (Three Years)
91.	Development of analytical & mass spectrometric methods to ascertain U-isotopic ratios along Tamilnadu Coast	Dr. A. Rajalakshmi Physics	BRNS (DAE) Rs.21.92 Lakh	2017-2019 (Two Years)
92.	Speech Assistive Aids for Visually-Challenged People	Dr. T. Nagarajan, IT Dr. P. Vijayalakshmi, ECE	TVA Rs. 25 lakhs	2018- 2019 1 Year
93.	Functionalization of graphene for their application as transparent conducting electrode	Dr. P. Balaji Bhargav C. Balaji, SSN RC	UGC DAE-CSR 6.5 Lakh	2018-2021 Three Years
94.	Optimizing the Ballistic Performance of AA7075 Thick Plate Friction Stir Welds	Dr. S. R. Koteswara Rao Dr. R. Damodaram Mechanical	DRDO-ARB 18.79 Lakh	2018-2021 Three years
95.	Development of high performance ternary piezoelectric ceramics for transducers applications	Dr. G. Anandha Babu Prof. P. Ramasamy Physics	CSIR 20 Lakh	2018-2021 3 Years
96.	Offshore excavation of heritage rich submerged sites of Poompuhar & Mahabalipuram by empirical mode decomposition using machine learning	Dr. S. Sakthivelmurugan ECE	DST Rs.50.00 Lakh	2018 – 2021 (Three Years)
97.	Micro grant for implementation of projects under the foldscope scheme	Ms. P. Kaythry ECE & NSS PO	Dept. of Biotechnology Rs.8.00 Lakh	2018-2019 (One Year)



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98.	Insulin Delivery and Glucose Evaluation Micro-Systems (InDeGEMS)	Dr. B.S. Sreeja, ECE	Corpn and Devp. Center, EPFL (CODEV), Switzerland Rs.13.75 Lakh	2018-2019 (One Year)
99.	Understanding the structure function relationship of the natural anticoagulant ZPI, a member of serpin superfamily	Dr. Tanusree Sengupta Chemistry	SERB Rs.34.63 Lakhs	2018-2021 (Three Years)
100.	Theoretical and experimental analysis on the design of compound reconfigurable ferlectarray antenna with an integrated electronic control system	Dr. Gulam Nabi Alsath ECE	SERB Rs.36.74 Lakh	2018-2019 (Three Year)
101.	Design and development of biosignal controlled hand exoskeleton	Dr. A. Kavitha, BME Dr. S. Bagyaraj, BME Ms. R. Nithya, BME	LSRB Rs.23.70 Lakh	2018-2019 (Two Years)
102.	Device quality and bulk size high performance thermoelectric silver bismuth sulfide ( $\text{AgBiS}_2$ ) and silver bismuth selenide ( $\text{AgBiSe}_2$ ) single crystals for thermoelectric (TE) applications	Dr. M. Senthil Pandian SSN RC	SERB 40.6 Lakh	2019-2021
103.	Development of an efficient IOT enabled plant disease pest detection system	Dr. S. Radha ECE	DST 62.26 lakh	2019-2021
104.	Development of GPS based comprehensive mobile App for water quality assessment and monitoring for promoting water security, farm security, urban development and civic improvement	Dr. N. P. Rajesh Physics	DST 47.58 lakh	2019-2021
105.	Development of GPS based comprehensive mobile App for water quality assessment and monitoring for promoting water security, farm security, urban development and civic improvement	Dr. S. Amutha ECE	DST 17.0 lakh	2019-2021
106.	An Automated Tool for Early Detection of Depression from Social Media Text for Mental Health using Deep Learning Approach to Assist Student Counsellors and Psychiatrists of Hospitals in India	Dr. D. Thenmozhi CSE	SERB 28.14 lakh	2019-2021
107.	Development of Bismuth-based complex perovskites piezoelectric single crystals for strategic applications	Dr. G. Anandha Babu Physics	SERB 2.79 lakh	2019-2021

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108.	Hybrid casting approach for manufacturing magnesium nanocomposites	Dr. L. Poovalazhan Dr. S. Rajkumar Mechanical	SERB 24.94 lakh	2019-2021
		Total		