BRNS funded research projects of HBNI Faculties in collaboration with Faculties from other Indian Universities/Institutes

Sr No	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration	Nature of the activity	Department	Amount
1	Development of Textile-based Nano hybrids as Smart Singlet Oxygen Generators"	Dr. Rama Ranjan Bhattacharjee, PSG Institute of Advanced Studies, Peelamedu, Coimbatore – 641 004	Dr. Atanu Barik, BARC	2014-2015	3 Years	Research Collaboration	Chemical Sciences	520900
2	Total Synthesis of naturally occurring bioactive quinazolinone alkaloids	Dr. V. Siddaiah, Dept. of Organic Chemistry & FDW, Andhra University, Visakhapatnam – 530 003	Dr. K. Indira Priyadarsini	2014-2015	3 Years	Research Collaboration	Chemical Sciences	1058400
3	Development of Novel Fluorination Reactions Employing Fluoride Ion as the Fluorine Source	DAE Young Scientist Research Award to Anand Singh, Department of Chemistry, FB-436, IIT Kanpur, Kanpur 208 016, UP	Dr. A Dash, BARC	2014-2015	3 Years	Research Collaboration	Chemical Sciences	1150000
4	Design, development, synthesis and docking analysis of pyrrole analogs as inhibitors for Mycobacterium tuberculosis enoyl-ACP reductase	Dr. A.C. Gupta, ARIES, Manora Park, Nainital - 263129	Dr. K.K. Yadav, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	591150
5	Swift heavy ion irradiation induced pinning mechanism for engineering defects in SC/FM heterostructure to enhance critical current density	Dr. D. Behera, Department of Physics, NIT Rourkela – 769008	Dr. D. Sanyal, VECC, Kolkata	2014-2015	3 Years	Research Collaboration	Physical Sciences	1488775

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

5	Swift heavy ion irradiation induced pinning mechanism for engineering defects in SC/FM heterostructure to enhance critical current density	Dr. D. Behera, Department of Physics, NIT Rourkela – 769008	Dr. D. Sanyal, VECC, Kolkata	2014-2015	3 Years	Research Collaboration	Physical Sciences	1488775
6	Electrical, optical, elemental, and structural properties of dual-ion-beam-sputter deposited plasmonic-based group I-III-VI2-chalcopyrite photovoltaic thin films	Dr. Shaibal Mukherjee, Discipline of Electrical Engineering, Indian Institute of Technology Indore, Indore-453 441(MP	Dr. C. Mukherjee	2014-2015	3 Years	Research Collaboration	Physical Sciences	1689375
7	Functional transition metal oxides	Priya Mahadevan, S.N.Bose National Centre for Basic Sciences, JD Block, Sector 3, Salt lake, Kolkata 700098	D. Bhattacharya, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	1984450
8	Mueller matrix polarimetry for biological tissue characterization	Prof. Nirmalya Ghosh, Dept. of Physical Science, Indian Institute of Science Education and Research (IISER), Kolkatta, Mohanpur-741252	Dr. M.K. Swami, RRCAT	2014-2015	3 Years	Research Collaboration	Physical Sciences	1164450
9	Probing oxide based multi-functional materials by X-ray diffraction and Raman scattering measurements	Prof. Anushree Roy, Department of Physics, IIT Kanpur, Kharagpur - 721302	Vinita Grover Gupta	2014-2015	3 Years	Research Collaboration	Chemical Sciences	873875

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

10	Polymer and polymer nanocomposites: strucutre and property correction	Dr. Sarathi Kundu, Institute of Advanced Study in Science and Technology (IASST) Paschim Boragaon, Guwahati - 781035 .	Dr. Saibal Basu, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	763150
11	Effect of external environment on the spectroscopic properties of atomic and exotic systems: Theory and Experiment	Dr. Tapan Kumar Mukherjee, Dept. of Physics, Narula Institute of Technology, Nilganj Road, Agarpara, Kolkatta-700109	Dr. Lokesh C Tribedi, TIFR	2014-2015	3 Years	Research Collaboration	Physical Sciences	751650
12	Study of fragmentation in thermal bath and systematic in heavy-ion collisions at intermediate energies	Dr. Sakshi Gautam, Dept of Physics Dev Samaj College for Women, Sector 45B, Chandigarh - 160047	Dinesh Srivastava, VECC	2014-2015	3 Years	Research Collaboration	Physical Sciences	978150
13	Biological Evaluation of Laser Rapid Manufactured Ti-Porous Structures	Dr. A. Sabareeswaran, Histopathology Lab., Biomedical Tech. Sree Chitra Tirunal Inst.for Medical Sc. and Tech., Thiruvananthapuram - 695012	Dr. C.P. Paul	2014-2015	3 Years	Research Collaboration	Engineering Sciences	495900
14	Dye-doped Fluorescent Polymer Nanoparticles for Single-Molecule Imaging	Dr. Apurba Lal Koner, IISER Bhopal, Bhopal, MP – 462 023	Dr. Manoj Kumbharkar	2014-2015	3 Years	Research Collaboration	Chemical Sciences	1647875

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

15	Development of heterologous stress inducible strong hybrid-synthetic promoters suitable for both monocot and dicot plants	Dr. Rajiv Ranjan, Department of Botany,Faculty of Science,Dayalbagh Educational Institute (Deemed University),Dayalbagh,Agra-5,Utter Pradesh.rajivranjanbt@gmail.com; M:09639490081	Dr. Ganapathi, BARC	2014-2015	3 Years	Research Collaboration	Life Sciences	1564025
16	Development and Validation of a Modified Embedded Atom Method (MEAM) Potential for Aluminum Alloys	Dr. T. Saha Dasgupta, S.N. Bose National Centre for Basic Sciences, Kolkata-	Dr. Manoj Warrier	2014-2015	3 Years	Research Collaboration	Physical Sciences	1390250
17	Grain Boundary Engineering in 'Stuffed' Lithium Garnets for Lithium-Air Battery Applications	Dr. Ramaswamy Murugan, Department of Physics, Pondicherry University, Puducherry-605 014.	Dr. Sudhakar Thakur, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	2185750
18	Low Energy Photon Spectroscopy and Internal Conversion Studies	Dr. Sujit Tandel, UM-DAE Centre for Excellence in Basic Science, Health Centre Building, Vidyanagari, Santacruz (E), Mumbai - 98, Email: sujit.tandel@cbs.ac.in, Mob.: 9619595271	Dr. D.C. Biswas	2014-2015	3 Years	Research Collaboration	Physical Sciences	1729900

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

19	Elemental Analysis of coal and fly ash from coal fired thermal power plants using PIXE and PIGE techniques	Prof. K.P. Singh, Department of Physics, Punjab University, Chandigarh-160014	Dr. Satyaranjan Santra, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	472900
20	Characterization of unreachable (Holderian) functions via Local Fractional Derivative and Deviation of function	Prof. Susmita Sarkar, Dept. of Applied Mathematics, University of Calcutta, 92 APC Road, Kolkata-700009	Dr. Santanu Das, BARC	2014-2015	3 Years	Research Collaboration	Mathematical Sciences	618400
21	Two dimensional NiCO2O4 - graphene composites for high performance supercapacitor electrodes	Dr. Chandra Sekhar Rout, School of Basic Sciences, IIT Bhubaneswar, Bhubaneswar – 751013	Dr. N.K. Sahoo, BARC	2014-2015	3 Years	Research Collaboration	Physical Sciences	1607400
22	Establishment and characterization of Induced Pluripotent Stem Cell (iPS) line From human fibroblast cells	Dr. Indira Hinduja, P.D. Hinduja National Hospital and Medical Research Centre, Veer Sawarkar Marg, Mahim, Mumbai-400 016	Dr. A Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	1442550
23	Targeted delivery of peptides to deliver siRNA across the blood-brain barrier	Dr. Vijaya Gopal, Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad-500007	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	1236468
24	Role of Mycobacterium tuberculosis DinG helicase in G4 DNA metabolism and DNA repair	Dr. Ganesh Nagaraju, Dept. of Biochemistry, IISc, Bangalore Phone: 080-22933055	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	1212500

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

25	Investigating the Genotype- Phenotype association among patients with Muscular Dystrophy and their correlation with Cognitive Deterioration	Dr. Akshya Anand, Research Lab, Dept of Neurology, Research Block B, PGIMER, Chandigarh-160012	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	740091
26	Role of TGF-β–SMAD signaling nexus in Treg/Th17 differentiation during experimental cerebral malaria	Dr. Arindam Bhattacharyya, Immunology Laboratory, Department of Zoology, University of Calcutta, 35, Ballygunge Circular Road, Kolkata – 700019	Dr. Deepak Sharma	2014-2015	3 Years	Research Collaboration	Life Sciences	1561875
27	Modulation of P2X7 Receptor Mediated Calcium Signaling by Pannexin	Dr. Amal Kanti Bera, Department of Biotechnology,IIT Madras,Chennai–600036. amal@iitm.ac.in	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	1320000
28	The role of the secreted antigen Rv0009 of Mycobacterium tuberculosis in modulating signaling in macrophages	Dr. Joyoti Basu, Department of Chemistry, Bose Institute, 93/1 APC Road, Kolkata 700009.	Dr. Deepak Sharma	2014-2015	3 Years	Research Collaboration	Life Sciences	989275

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

29	PON1 expression, activity and its relationship with oocyte and embryo quality in women with PCOS undergoing assisted reproductive technique	Dr. Srabani Mukherjee, NIRRH (ICMR), J M Street,Parel, Mumbai 400012 Appln. No.1318 Mob. No. of PI:9833113798	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	892900
30	Mechanism of STAT5b in pancreatic beta cell proliferation/sustenance and its significance in diabetes	Dr.Malini Laloraya, Division of Molecular Reproduction, RGCB, Thycaud P.O., Poojappura, Thiruvananthapuram, Kerala	Dr. Anand Ballal	2014-2015	3 Years	Research Collaboration	Life Sciences	1445775
31	Examination of novel elastic colloidal assemblies using small angle scattering	Dr. Guruswamy Kumaraswamy, J101, PAML, CSIR National Chemical Laboratory, Pune	Dr. V.K. Aswal	2015-2016	3 Years	Research Collaboration	Physical Sciences	
32	Carbon Nanotubes based Nanocomposite Ultrafiltration Membranes for Water Purification	Dr. P S. Goyal, Dept. of Physics, Pillal's Institute of Information Technology, New Panvel - 410 206 Appln. No.0129 Mob. No. of PI:9819843391	Dr. R.C. Bindal, BARC	2015-2016	3 Years	Research Collaboration	Chemical Sciences	
33	Development of hybrid quantum mechanics-molecular mechanics (QM/MM) methodologies based on Effective Fragment Potential (EFP)	Dr. Kumar Vanka, Physical and Materials Chemistry Division, CSIR-NCL, Pune	Dr. Arup Kumar Pathak	2015-2016	3 Years	Research Collaboration	Chemical Sciences	

Pandey 14.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

34	Development of surface functionalized Metal-doped Nanoparticles as Fluorescent Probes for sensing trace level of heavy metals in environmental matrices	Dr. K. Suresh Kumar, Department of Applied Chemistry, S.V. National Institute of Technology (SVNIT), Surat - 395 007, Gujrat	Dr. P.K. Sharma, BARC	2015-2016	3 Years	Research Collaboration	Chemical Sciences
35	Studies of LiFePO4/rGO nano-composite cathode for improved electrochemical performance of lithium ion battery	Dr.(Smt.) L D. Jadhav, Department of Physics, Rajaram College, Govt. of Maharashtra, Kolhapur	Dr. (Smt.) B.N. Wani, BARC	2015-2016	3 Years	Research Collaboration	Physical Sciences
36	Ionic Liquids: Density Functional Investigations	Dr. Shridhar P. Gejji, Dept. of Chemistry, Univ. of Pune, Ganeshkind, Pune - 411 007 Appln. No.0054 Mob. No. of PI:9767090357	Dr. M.S. Murali, BARC	2015-2016	3 Years	Research Collaboration	Chemical Sciences
37	Development of Catalytic Enantioselective Desymmetrization Reactions Based on Carbophilic Activation	Dr. B. Senthil Kumar, Division of Organic Chemistry, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune	New PI (former PI Dr. Nitin Patil)	2015-2016	3 Years	Research Collaboration	Chemical Sciences
38	Studies on Heisenberg spin chains with Dzyaloshinskii-Moriya interaction in the presence of fields	Dr. Asim Kumar Ghosh, Department of Physics, Jadavpur University, 188 Raja Subodh Chandra Mallik Road, Kolkata	Dr. S.M. Yusuf, BARC	2015-2016	3 Years	Research Collaboration	Physical Sciences

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

39	Depth-resolved structural and magnetic properties of thin films and multilayers for spintronic applications	Prof. Ajay Gupta, Amity Center for Spintronic Materials, Amity University, Noida - 201313, U.P.,	Dr. S.N. Jha, BARC	2015-2016	3 Years	Research Collaboration	Physical Sciences
40	Study of electronic transport of La0.7Sr0.3MnO3/Mg-doped ZnO/ La0.7Sr0.3MnO3 lateral junction.	Dr. Prahallad Padhan, Department of Physics, IIT Madras, Adyar, Chennai	Dr.S.N.Achary, BARC	2015-2016	3 Years	Research Collaboration	Chemical Sciences
41	Structure, Spectroscopy and Reactivity of Low – Dimensional Systems.	Dr. Ayan Datta, Indian Association for the Cultivation of Science, Jadavpur – 700032, Kolkata. Email: spad@iacs.res.in, Mob.:09874295938	Chiranjib Majumdar, BARC	2015-2016	3 Years	Research Collaboration	Chemical Sciences
42	Synthesis of Peptide Stabilized Quantum-dots for Imaging Applications	Dr. Dindyal Mandal, School of Biotechnology, KIIT University, Patia, Bhubaneswar, Odisha - 751024	Dr. S.K. Ghosh	2015-2016	3 Years	Research Collaboration	Chemical Sciences
43	Dynamics of DNA clamp loaders and DNA clamps	Dr. Rituraj Purohit, CSIR-Institute of Himalayan Bioresource Technology, Palampur (H.P.). 176061 India	Dr. Anand Ballal	2015-2016	3 Years	Research Collaboration	Life Sciences

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

44	To study the role of NMDA receptor in B[a]P-induced behavioural changes and neuronal apoptosis	Dr. Manorama Patri, Dept. Of Zoology, Ravenshaw Univ. Cuttack;	Dr. B.S. Patro	2015-2016	3 Years	Research Collaboration	Life Sciences
45	An Integrated Computational and Experimental Approach to Discovering and Analyzing Regulatory Networks in Systems Biology	S. Akshay, Department of Computer Science and Engineering, IIT Bombay, Powai, Mumbai - 400076.	Prasanna Venkataraman	2015-2016	3 Years	Research Collaboration	Life Sciences
46	Laminated magnetic thin films for soft magnetic applications	Prof. Perumal Alagarsamy, Department of Physics, IIT Guwahati, Guwahati – 781039,Email: perumal@iitg.ernet.i, Phone: 0361-2582714, Mob.: 9678006150	Dr. Subhankar Bedanta, NISER	2015-2016	3 Years	Research Collaboration	Physical Sciences
47	Elucidating the role of RSC chromatin remodeling complex in faithful chromosome segregation and morphogenesis in Candida albicans	Santanu Kumar Ghosh, Dept. of Biosciences and Bioengineering, IIT, Bombay, Mumbai-400076; Email:santanughosh@iitb.ac.in	Dr. Rajani Kant, BARC	2015-2016	3 Years	Research Collaboration	Life Sciences
48	Development of low linolenic acid genetic stocks of soyabean and validation of genetic markers	Dr.S.K.Lal, Genetics Division, IARI, New Delhi	Dr. Sudhir Gupta	2015-2016	3 Years	Research Collaboration	Life Sciences

Pandey 18.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

49	"Evaluation of halotolerant microbe as potential bioremediation agent for aromatic pollutants	Dr. Prashant S. Phale, Deptt. of Biosciences and Bioengineering, IIT, Bombay, Mumbai	Dr. Anand Ballal	2015-2016	3 Years	Research Collaboration	Life Sciences	
50	Development of (K,Na)NbO3 ceramics modified with LiTaO3 and LiNbO3 for piezo and pyroelectric sensor applications	D. Pamu, Department of Physics, Indian Institute of Technology Guwahati, Guwahati-781039	RB Tokas, BARC	2015-2016	3 Years	Research Collaboration	Physical Sciences	
51	High pressure-temperature investigations of CO2 and related materials	Dr. Amartya Sengupta, Dept of Physics, Indian Institute of Technology, Delhi, Hauz Khaz, New Delhi- 110016	Mr.M.N. Deo, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	2385000
52	Brain targeted nanoparticles conjugated with a transferrin antibody for Parkinsons disease	Dr. Jayvadan K. Patel, Dept. of Pharmaceutics, Nootan Pharmacy College, S K Patel Campus, Near Kamana Crossing, Ambaji Highway, Visnagar- 384315 Gujarat	Dr. Santosh Kumar Sandur, BARC	2016-2017	3 Years	Research Collaboration	Life Sciences	1619500
53	Development of Silica based Mesoporous Materials for Catalysis and Adsorption	Dr. Udai Singh, Dept. of Chemistry, Indian Institute of Technology (IIT), Roorkee, Uttarakhand 247667	Dr. A.K. Tyagi, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	590625

Pandey
19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

54	Aggregation Induced Emission in Fluorescent Materials: Design, Synthesis and Applications	Dr. Venkata Sriram K. G., Associate Professor, Chemistry, Indian Institute of Technology Gandhinagar, Chandkheda, Ahmedabad 382424	Dr. Joytirmayee Mohanty, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	1422250
55	Exploration of Novel Aggregation Induced Emissive Molecules, Polymers and Nanoassemblies	Dr. Abhijit Patra, Assistant Professor, Chemistry, Indian Institute of Science Education & Research Bhopal, Indore By-pass road, Bhauri, Bhopal 462066 M.P.	Dr. A.C. Bhasikuttan	2016-2017	3 Years	Research Collaboration	Chemical Sciences	2043600
56	Physical chemistry of drug partitioning in micelles and interaction with proteins upon delivery	Dr. Nand Kishore, Professor, Chemistry, Indian Institute of Technology, Bombay, Powai, Mumbai- 400076	Dr. Ratikant Mishra, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	1835025
57	Modeling transit times for translocation of Polypeptides through a nanopore with attractive traps	Dr. Srabanti Chaudhury, Assistant Professor, Indian Institute of Science Education & Research, Pune, Dr. Homi Bhabha Road, Pashan, Pune 411008	Dr.Niharendu Choudhury, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	1728290

Pandey 19.8.2025

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

58	Studies on of type II Phosphatidylinositol 4-kinase b mediated apoptotic mechanisms in human breast cancer cells	Dr. G. Subrahmanyam, Professor, Department of Biosciences and Bio Engineering Indian Institute of Technology (IIT), Bombay,Powai, Mumbai-400076	Dr. S. Santosh Kumar	2016-2017	3 Years	Research Collaboration	Life Sciences	1198100
59	Induction of autonomous endosperm development in Pennisetum species by down-regulating a Polycomb gene CCEZ1 using RNAi approach	Dr. Vishnu Bhat, Professor, Dept. of Botony, University of Delhi,Delhi- 110007	Dr. Vishvas M Kulkarni, BARC	2016-2017	3 Years	Research Collaboration	Life Sciences	827750
60	Role of autophagy in keratoconus: An approach of therapeutic implications	Dr. Nallathambi Jeyabalan, Senior Scientist, Narayana Nethralaya Post Graduate Institute of Ophthalmology, Narayana Nethralaya Foundation, Narayana Health City, Narayana Hrudayalaya Campus, 258/A, Bommasandra Industrial Area, Hosur Road, Bangalore -560099, Karnataka, India	Dr. S. Santosh Kumar	2016-2017	3 Years	Research Collaboration	Life Sciences	1309625

Pandey 19.8.2020

Ashok K Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

61	Evaluating endothelial dysfunction through altered NO bioavailability in ankylosing spondylitis	Prof. Alakendu Ghosh, Professor & Head, Dept. of Rheumatology, Institute of Post Graduate Medical Research & Education, 244 Acharya Jagadish Chandra Road, Kolkata-700020	Dr. Subrata Chattopadhyay, BARC	2016-2017	3 Years	Research Collaboration	Chemical Sciences	901500
62	Development of Cationic Cleavable Amphiphiles and Study Aggregation and Antibacterial Properties	Dr. Jayanta Haldar, Assistant Professor, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore, Karnataka-560064	Dr. Vinod K Aswal, BARC	2016-2017	3 Years	Research Collaboration	Physical Sciences	1232500
63	Design, Development of microchaimel assisted TL Microscope for chemotaxis and heavy metal detection	Prof Sajan Daniel George, Associate Professor, Department of Atomic and Molecular Physics, Academic Block-5, LG-01 MIT, Manipal University, Manipal, Udupi, Karnataka-576104.	P.V. Kiran Kumar, NCCM	2016-2017	3 Years	Research Collaboration	Physical Sciences	2311157
64	First-principles simulations of pressure-induced phenomena in organic and hybrid crystals	Dr. Varadharajan Srinivasan, Room 225, AB-2, Indian Institute of Science, Education & Research (IISER), Bhopal, By-pass Road, Bhauri, Bhopal, Madhya Prdesh-426066.	Dr. Lavanya MMR, BARC	2016-2017	3 Years	Research Collaboration	Physical Sciences	1718500

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

65	Spectroscopic Study of Rare Earth Nuclei	Dr. Anagha Chakraborty, Department of Physics, Siksha Bhavana, Visva- Bharati, Santiniketan, West Bengal-731235.	Dr.Somsundar Mukhopadhyay, BARC	2016-2017	3 Years	Research Collaboration	Physical Sciences	1510075
66	Production of Quarkonia and their nuclear modifications in high energy heavy ion collisions	Prof. Abhijit Bhattacharyya, Department of Physics, University of Calcutta, 92 APC Road, Kolkata, West Bengal-700009.	Prashant Shukla	2016-2017	3 Years	Research Collaboration	Physical Sciences	516650
67	Chalcogenides, dichalcogenides, carbon and oxide nanostructures for thermal energy harvesting	Dr. Vilas Shelke, Department of Physics, Barkatullah University, Bhopal, Madhya Pradesh-462026	Dr. Ajay Singh	2016-2017	3 Years	Research Collaboration	Physical Sciences	1658750
68	Synthesis of high figure-of-merit thermoelectric materials for high temperature range (> 650C)	Dr. Sivaiah Bathula, Scientist, Room No.15, HEPP Building Metals, Alloys and Composits for Energy Applications Physics of Energy Harvesting Division, CSIR- National Physical Laboratory, Dr.K.S. Krishnan Marg, New Delhi-110012.	Dr. Ajay Singh	2016-2017	3 Years	Research Collaboration	Physical Sciences	1221250
69	Synthesis of Pd-graphene core shell nanoparticles for hydrogen sensing applications	Dr. B.R. Mehta, Department of Physics, IIT Delhi, New Delhi – 110 016	Dr. Sandip K Dhara, IGCAR	2016-2017	3 Years	Research Collaboration	Physical Sciences	2130875

Pandey 19.8.2016

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

70	2D heterostructure nanoresonators for mass sensing applications	Dr. Akshay Naik, Indian Institute of Science, Bangalore, Karnataka-560012.	Dr. Debjani Karmakar	2016-2017	3 Years	Research Collaboration	Physical Sciences	1585625
71	Tuning the ultrafast nonlinear optical and magnetic properties of transition metal dichalcogenide heterostructures as a function of interlayer coupling strength: Photonic device applications	Dr. Adarsh K. V., Department of Physics, Indian Institue of Science, Education & Research (IISER), Bhopal, ITI Gas Rahat Building, Govindpura, Bhopal, Madhya Pradesh-462023.	Dr. Debjani Karmakar	2016-2017	3 Years	Research Collaboration	Physical Sciences	2889875
72	Fabrication of 2D heterostructures by chemical vapor deposition	Dr. Ranjit Ramchandra Hawaldar, Plot No.41, Sector-24, Pradhikaran Nigadi, CMET, Pune-411044, Maharashtra.	Dr. Debjani Karmakar	2016-2017	3 Years	Research Collaboration	Physical Sciences	2812875
73	Study on the role of Tonoplast Intrinsic Protein family members in arsenite accumulation and their transport in rice	Dr. Kundan Kumar, BITS Pilani Goa Campus, Zuarinagar, Goa-403726, Vasco, Goa-403726.	Dr.P. Suprasanna, BARC	2016-2017	3 Years	Research Collaboration	Life Sciences	1082000
74	RP entitled "Study the effect of nutraceuticals on epigenetically regulated alternative splicing in tumorigenesis" under	Dr.Sanjeev Shukla, Assistant Professor, Department of Biological Sciences, IISER, Bhopal, Transit Campus-ITI Campus (Gas Rahat) Building, Govindpura, Madhya Pradesh-462023	Dr. Sanjay Gupta, ACTREC	2016-2017	3 Years	Research Collaboration	life Sciences	1146500

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

75	Therapeutic applications of genetically manipulated human term-placenta derived mesenchymal stem Cells (PD- MSCs) as drug cells for treating acute radiation sickness (ARS) and/or radiation-induced cutaneous damages.	Dr. Sanjay Kumar, Scientist, Center for Stem Cell Research, Vellore, Tamilnadu- 632002.	DK Maurya	2016-2017	3 Years	Research Collaboration	Life Sciences	1221750
76	Elucidating the control exerted on mitochondrial activity by YDR336w(MRX8), a nuclear- encoded GTPase" under bearing sanction No. with BSC, BRNS	Dr. Kaustuv Datta, Department of Genetics, Bachhawat Block Basement, University of Delhi, South Campus, Benito Juarez Road, New Delhi-110021	Dr. Hema Rajaram	2016-2017	3 Years	Research Collaboration	Life Sciences	1503675
77	Protective autophagy by secretory clusterin associated with cell survival and chemoresistance in oral cancer	Dr. Sujit Bhutia, Department of Life Science, National Institute of Technology, Rourkela, Odisha-769008	Dr. Palok Aich	2016-2017	3 Years	Research Collaboration	Life Sciences	1674000
78	Proteolytic and non-proteolytic regulation of breast cancer invasion by MMP2 and MMP9	Prof. Shamik Sen, Department of Biosciences and Bioengineering, IIT-Bombay, Powai, Mumbai-400 076	Dr. Sorab Dalal	2017-2018	3 Years	Research Collaboration	Life Sciences	1264750

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

79	Synthesis of high figure-of-merit thermoelectric materials for mid temperature range (250-600°C)	Dr. Satish Vitta, Department of Materials Science, IIT-Bombay, Powai, Mumbai-400076	Dr. Ajay Singh	2017-2018	3 Years	Research Collaboration	Physical Sciences	1314250
80	Probing 2-oxoglutarate cooperativity in Aspergillus niger NADP-glutamate Dehydrogenase	Dr. Narayan S. Punekar, Professor, Department of Biosciences and Bioengineering, IIT-Bombay, Powai, Mumbai-400076	Dr. J.S. Melo	2017-2018	3 Years	Research Collaboration	Life Sciences	1602725
81	Understanding the Mode of Site Specific DNA Binding in Transcription Regulating Proteins	Prof. Ruchi Anand, Department of Chemistry, IIT-Bombay, Powai, Mumbai-400076	Dr. Vinay Kumar	2017-2018	3 Years	Research Collaboration	Physical Sciences	1834500
82	Synthesis of Pi- extended Subchlorins: Potential photosensitizers for photodynamic therapy (PDT)	Dr. Pradeepta K Panda, W-105, School of Chemistry, University of Hyderabad, Gachibowli, P.O. Central University, Hyderabad, Telangana-500046.	Dr. K.C. Barick	2017-2018	3 Years	Research Collaboration	Chemical Sciences	1134400
83	Multiplex protein sensor based on supramolecular constructs using two dimensional nanoscale colloids	Dr, Mrimnoy De, Department of Organic Chemistry, Indian Institute of Science, Bangalore, Karnataka-560012.	Dr. (Smt.) SN Sawant	2017-2018	3 Years	Research Collaboration	Chemical Sciences	1672500
84	Modulation of NMDAR-nNOS axis and neuro-anatomical alteration by methyl cobalamine jn brain of HE rats	Prof. Surendra K Trigun, Department of Zology, Banaras Hindu University, Varanasi, Uttar Pradesh-221005	Dr. S. Santosh Kumar	2017-2018	3 Years	Research Collaboration	Life Sciences	1712500

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

85	RGS6-Tip60-Dnmt1 complex functions as essential mediator of chemotherapy sensitivity to breast cancer	Dr. Biswanath Maity, Department of Zoology, University of Calcutta, Kolkata, West Bengal - 700 019.	Dr. Mahesh Subramanian, BOD, BARC	2017-2018	3 Years	Research Collaboration	Life Sciences	1672225
86	Proteomic analysis of radiation and cadmium responsive genes regulated by LexA in Anabaena PCC7120	Dr. Yogesh Mishra, Assistant Professor, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi-221005, Varanasi, Uttar Pradesh.	Dr. Hema Rajaram, MBD, BARC	2017-2018	3 Years	Research Collaboration	Life Sciences	1465775
87	Metabolic engineering of plants with stress tolerance phenotypes of Deinococcus radiodurans	Dr. Narendra Singh, Genetic & Plant Breeding College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar, Udhamsingh Nagar, Uttarakhand (Uttaranchal)-263145	Dr. H.S. Mishra, HBNI	2017-2018	3 Years	Research Collaboration	Life Sciences	1569500
88	Functional characterization of natural and synthetic derivatives of deinoxanthin for their antioxidant and radio protective effects using Caenorhabditis elegans and mouse model systems	Dr. Vediappen Padmini, Department of Molecular Microbiology, School of Biotechnology, Madurai Kamaraj University, Madurai	Dr. H.S. Mishra, HBNI	2017-2018	3 Years	Research Collaboration	Life Sciences	1355600

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

89	Identification of natural antioxidants and radio protectors from extremely radio resistant and oxidative stress tolerant bacterium Deinococcus radiodurans and unlocking of its therapeutic potential	Dr. Ponnapalli Gowri, Senior Scientist, Natural Products Chemistry Division, Indian Institute of Chemical Technology, Tarnaka Hyderabad, Hyderabad, Telengana-500007	Dr. H.S. Mishra, HBNI	2017-2018	3 Years	Research Collaboration	Life Sciences	1436750
90	Iron-carboxylate complexes as the cancer-specific metallo-prodrugs	Dr. Mithun Roy, Assistant Professor, Department of Chemistry, National Institute of Technology, Manipur Langol, Imphal, (Manipur), Imphal, Manipur-795004	Dr. Amit Kunwar, RPCD, BARC	2017-2018	3 Years	Research Collaboration	Chemical Sciences	771875
91	Design and synthesis of smart supramolecular dyes based on TPE modified PDI–cucurbituril conjugates	Dr. Mainak Banerjee, Department of Chemistry, BITS Pilani K. K. Birla Goa campus, NH 17B Zuarinagar, South Goa, Goa-403726	A.C. Bhasikuttan, RPD, BARC	2017-2018	3 Years	Research Collaboration	Chemical Sciences	1550050
92	Synthesis of a new saturated N-heterocyclic silylene, its reactivity and catalytic application	Prof. Shabana Khan, Department of Chemistry, IISER, Pune, Dr. Homi Bhabha Road, Pashan, Pune-411008	Dr. Mahendra P Patil, CBS	2017-2018	3 Years	Research Collaboration	Medical and Health Sciences	1549516
93	EMI-shielding effectiveness of xGnPfilled EVA/EOC immiscible blends and the irmicrocellular foams	Dr. Nimai Charan Nayak, Professor, Department of Chemistry, ITER Bhubaneswar, Odisha-751030	Tapobrata Som, IOP	2017-2018	3 Years	Research Collaboration	Physical Sciences	1413750

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, C/ B
B.A.R.C., Trombay, Mumbai - 400085

94	Micro structure controlled radiation tolerance of nano-crystallineoxide ceramics at various energy ranges	Dr. Santanu Ghosh, Department of Physics, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi-110016	Dr. Vinita Grover Gupta, ChD, BARC	2017-2018	3 Years	Research Collaboration	Chemical Sciences	1644750
95	Synthesis and characterization of frustrated spin-1/2 chain compounds	Dr.Ramesh Chandra Nath, School of Physics, IISER Trivandrum, CET Campus, Trivandrum-695016	Prof. Biju Raja Sekhar, IOP	2017-2018	3 Years	Research Collaboration	Physical Sciences	1358544
96	Novel iron based hybrid nano-adsorbents for removal of arsenic, from aqueous stream	Dr.Garudadhwaj Hota, Department of Chemistry, NIT Rourkela, Odisha-769008	Dr. Sanjib Kar, NISER	2017-2018	3 Years	Research Collaboration	Chemical Sciences	1284750
97	Influence of Strain and Carrier Injection on Electrical and Magnetic Properties of RNi1-xDxO3(R=Rareearthmetal, D=Dopant)Thin Films and Multilayers	Dr.Krushna R. Mavani, Discipline of Physics, Indian Institute of Technology, Indore, Khandwa Road, Simrol, Indore, Madhya Pradesh-453552	Sriganesh S Prabhu, TIFR	2017-2018	3 Years	Research Collaboration	Physical Sciences	1937700
98	Hypoxia Sensitive Nanoparticle Conjugates For Targeted Drug Delivery In Cancer	Dr. Dhanya Sunil, Department of Chemistry, Manipal Institute of Technology, Manipal, Karnataka-576104	Dr. R.S. Ningthoujam, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	2119375

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

99	Synthesis of metal ferrite modified MCM-41 (FMMCM) composites as adsorbent for remediation of Cr (VI) from contaminated water	Dr. Rashmi Acharya, Centre for Nano Science and Nano Technology, Sikha 'O' Anusandhan University, Khandagiri, Bhubaneswar-30, Odisha	Dr. Raghunath Acharya, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	573625
100	Development of New Heterogeneous Porous Catalysts and their Use for the Preparation of fine Chemical	Dr. S. Islam, Department of Chemistry, University of Kalyani, Kalyani, Nadia-741235, West Bengal	Dr. Mrinal Pai, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1181650
101	Structural Studies on RhoHto designanti-metastatic drug for Lymphoma, using synchrotron radiation	Dr.Kiran Kulkarni, Senior Scientist, Division of Biochemical Sciences, CSIR-NationalChemical Laboratory, Dr. Homi Bhabha Road, Pune - 411 008	Dr. Ravindra D Makde, BARC	2018-2019	3 Years	Research Collaboration	Life Sciences	1331125
102	In Vitro and In Vivo Functions of Cell Surface Estrogen Receptors in the context of Prostate Cancer	Dr. Geetanjali Sachdeva, Primate Biology Division, National Institute for Research in Reproductive Health, Indian Council of Medical Research, J.M. Street, Parel, Mumbai-400 012, Maharashtra Appln. No.0551 Mob No. of PI:9769680147	Dr. Pritha Ray, ACTREC	2018-2019	3 Years	Research Collaboration	Life Sciences	1170575

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

103	Synthesis of Heterocycles via Multiple C-H Bond Activation	Dr. Debabrata Maiti, Department of Chemistry, Indian Institute of Technology-Bombay, Powai,Mumbai-400076 Appln. No.0470 Mob. No. of PI:9820907155	Dr. Sunil Ghosh, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	2170500
104	Electronic structure and transport Properties of inorganic/organic nano composites	Prof. Pranab Sarkar, Viswa-Bharati, Shantiniketan-731235, West Bengal Appln. No.0304 Mob. No. of PI:9647567390	Dr. C. Majumder, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1986875
105	Angularly Distributed Donor-Acceptor Based Chromophore: Simple System for Sophisticated NLO effect	Dr. Debdas Ray, Department of Chemistry, School of Natural Sciences, Shiv Nadar University, NH-91, Tehsil Dadri, District: Gautam Budha Nagar, Uttar Pradesh-201 314	Dr. Dulal Senapati, SINP	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1212500
106	Investigating multi-nucleon transfer & n-p correlation: effects of nuclear deformation/ orientation	Dr. Kushal Kalita, Assistant Professor, Department of Physics, Gauhati University, Guwahati-781014, Assam	Dr. Bidyut J Roy, BARC	2018-2019	3 Years	Research Collaboration	Physical Sciences	1447500
107	Spectral Analysis of Multiplex Networks	Dr. Sarika Jalan, Associate Professor (Physics), IIT-Indore, Khandwa Road, Simrol, Indore-453 552, Madhya Pradesh	Dr. Shashi CL Srivastava, VECC	2018-2019	3 Years	Research Collaboration	Physical Sciences	924000

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

108	Fundamental Physics in Strong Gravitational field of Neutron Stars	Dr. Sarmistha Banik, BITS Pilani- Hyderabad Campus, Jawahar Nagar, Samerpet Mondal, Medchal District, Hyderabad-500078, Telengana	Dr. Debades Bandyopadhyay, SINP	2018-2019	3 Years	Research Collaboration	Physical Sciences	1143275
109	Radionuclide sensing platform based on functionalized polymer having nanochannels using accelerator	Prof. Pralay Maiti, Professor, School of Materials Science and Technology, IIT (BHU), Varanasi-221005, Uttar Pradesh	Dr. Rahul Tripathi, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	2866500
110	Design and synthesis of multifunctional micellar based drug delivery vehicles for cancer therapy	Dr. Sabita Patel, Assistant Professor, Department of Chemistry, National Institute of Technology (NIT), Rourkela-769008, Odisha	Dr. PA Hassan, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1802250
111	Sodium-ion battery development based on polymer and polyanion-based cathode and hard carbon anode	Dr. Sagar Mitra, Associate Professor, Department of Energy Science and Engineering, IIT Bombay, Powai, Mumbai-400076	Dr. Dimple Dutta, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1147250
112	Porphyrin–Tethered–Beta-Cyclodextrin Loaded with Guanidinobenzimidazoles as G-Quadruplex DNA binders	Dr. Muthu Vijayan Enoch, Department of Chemistry, Karunya University, Karunya Nagar, Coimbatore-641 114, Tamil Nadu	Dr. Haridas Pal, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	669750

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

113	Electrode position of noble metals on steel surfaces for efficient hydrogen dosIngrequirement of BWR	Dr. Praveen B.M., Professor and Head, Department of Chemistry, Srinivas School of Engineering, Mukka, Mangalore-574 146, Karnataka	Dr. V.S. Tripathi, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	926875
114	Development of thermally stable radiation resistant organosilicate based paint formulations for corrosion	Dr. Prabal Pratap Singh, Department of Chemistry, GLA University, NH-2, Delhi-Mathura Highway, Chaumuha, Mathura-281406, Uttar Pradesh	Dr. Manmohan Kumar, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1879750
115	Development of antimicrobial porous polymeric bandage for skin tissue regeneration	Dr. Sreelekha T.T., Assistant Professor, Division of Cancer Research, Regional Cancer Centre, Thiruvananthapuram-695 011, Kerala	Dr. Anuj Tripathi, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1443625
116	Pharmacological evaluation of a novel asparaginase used for the treatment of childhood Acute Lymphoblastic Leukaemia (ALL)	Prof. Avinash Sonawane, Dean, School of Biotechnology, Immunology Lab Campus-11, KIIT University, Bhubaneswar, Odisha-751024	Dr. Vikram Gota	2018-2019	3 Years	Research Collaboration	Life Sciences	1411750
117	Growth of Pure and Doped Organic Single Crystals for Scintillator Applications	Dr. Sethuraman, Assistant Professor, Dept. of Physics, School of Physics, Madurai Kamaraj University, Madurai-625021, Tamil Nadu	Dr. Babita Tiwari	2018-2019	3 Years	Research Collaboration	Physical Sciences	2257250

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

118	Scale-up of biogenic bimetallic core shell [Pd/Fe] nanoparticles synthesis and their application to waste water treatment	Dr. Mrudula Pulimi, Associate Professor, Centre for Nanobiotechnology, VIT University, Vellore-632014, Tamil Nadu	Dr. V.P. Venugopalan	2018-2019	3 Years	Research Collaboration	Life Sciences	1470625
119	Preparation of biogenic bimetallic core shell [Pd/Fe] nanoparticles for wastewater bioremediation applications	Dr. Amitava Mukherjee, VIT University, Centre for Nanobiotechnology, Vellore-632014, Tamil Nadu	Dr. V.P. Venugopalan	2018-2019	3 Years	Research Collaboration	Life Sciences	1873750
120	Development of starch blended guar gum biodegradable films reinforced with cellulose nano crystals	Dr. Sivakumar Venkatachalam, Department of Chemical Engineering, A C Tech Campus, Anna University, Chennai, Tamil Nadu - 600025	Dr. Sumit Gupta	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1681000
121	Development of plasticizers for the melt processing of guar gum for the biodegradable films	Prof. Ramanand Jagtap, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai	Dr. Sumit Gupta	2018-2019	3 Years	Research Collaboration	Chemical Sciences	981500
122	Identification & functional characterization of salt-responsive conserved & novel miRNAs in soyabean	Dr. Vinay Kumar , Department of Biotechnology, PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune	Dr. Ashish Kumar Srivastava	2018-2019	3 Years	Research Collaboration	Life Sciences	1839875

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

123	Effect of manipulating sialic acid levels on cell adhesion process	Dr. Ranjana Arya, Assistant Professor, School of Biotechnology, Jawaharlal Nehru University, New Delhi-110067	Dr. Anu Ghosh	2018-2019	3 Years	Research Collaboration	Life Sciences	2126250
124	Pd complexes with Hybrid Organochalcogen Ligands as Homogeneous Catalysts in C-C coupling Reactions	Prof. Bhalchandra Bhanage, Department of Chemistry, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga-400019	Dr. Sandip Dey	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1748500
125	Impact of radiation based fragmentation of alpha glucans and their application potential	Dr. Prakasham R Shetty, Medicinal Chemistry and Biotechnology, CSIR-Indian Institute of Chemical Technology, Hyderabad-500 007, Telengana	Dr. P. Suprasanna	2018-2019	3 Years	Research Collaboration	Life Sciences	1716250
126	Fire Retardant Materials: Investigation on Mechanistic & Thermo-physical props. & synthesis process	Dr. Anirban Chowdhury, Department of Materials Science and Engineering, Indian Institute of Technology Patna, Kanpa Road, Bihta, Bihar- 801106	Dr. S.N. Achary, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	3193188
127	A computational investigation on the reaction paths and spectroscopic properties of crown ethers	Dr. ANJAN CHATTOPADHYAY, BITS-PILANI,K.K.BIRLA GOA CAMPUS, ZUARINAGAR, Goa - 403726	Dr. Musharaf Ali, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	2480750

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

128	Information theoretic measures and complexity under free and confinement situations within DFT: some	Dr. Amlan Kusum Roy, IISER Kolkata, Mohanpur, Dist. Nadia, West Bengal-741246	Dr. A.K. Samanta, BARC	2018-2019	3 Years	Research Collaboration	Chemical Sciences	1787850
129	Fusion Reaction Studies with Weakly Bound Nuclei	Dr. Bhushan Anil Kanagalekar, Department of Physics, Rani Channamma University, PB road, NH-4, Bhutaramanahatti, Belagavi, Karnataka-590 006	Dr. Vivek Parkar, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	2379600
130	Effect of structure, microstructure of complex oxides on heavy ion implantation and release behavior	Dr. Pawan Kumar Kulriya, Scientist-E, Inter University Accelerator Centre, Post Box No.10502, Aruna Asaf Ali Road, New Delhi - 110067	Vinita Grover Gupta, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3592100
131	Development of bi/tri-metallic plasmonic nanoparticles decorated metal oxide semiconductor as Photoc	Dr. Sushant Kumar, Assistant Professor, Block VI, Room no. 110, Department of Chemical and Biochemical Engineering, Indian Institute of Technology - Patna, Bihta - 801 118, Bihar	Rajesh Ganesan@igcar.gov.in	2019-2020	3 Years	Research Collaboration	Chemical Sciences	2306250

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

132	Study of interface magnetism in thin films and multilayers	Dr. Gagan Sharma, Assistant Professor, Amity Centre for Spintronic Materials, E-2 Block, IV Floor, Amity University, Sector 125, Near Mahamaya Flyover, Noida-201313, Uttar Pradesh	Dr. Surendra Singh, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	3257600
133	Design and Generation of in situ Transition metal complexes with nitrogen containing Ligand and their exploration in regioselective C-C and C-Heteroatom bond Formation	Dr. Ravi P. Singh, Associate Professor, Department of Chemistry, Indian Institute of Technology Delhi (IITD), Hauz Khas, New Delhi-110 016	Dr. Sunil K Ghosh, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	2847600
134	Development of conducting polymer based nanocomposites for efficient detection of Mycotoxins	Dr. Ashok Kumar, Professor, Dept. of Physics, Tezpur University, Tezpur, Napaam, Assam- 784028	Dr. C.A. Betty, BARC	2019-2020	3 Years	Research Collaboration	Engineering Sciences	3435036
135	Effect of EM radiation on physical properties of Re doped Ni-Zn, Mn-Zn ferrites for EMI suppression	Dr. Srinivas Chintoju, Professor, Dept. of Physics, Sasi Institute of Technology and Engineering, Tadepalligudem, West Godavari, Andhra Pradesh-534101	Dr. C.L. Prajapati, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	2345100

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

136	Studies on the regulation by stress induced small RNAs in Deinococcus radiodurans	Dr. Tanmay Dutta, Assistant Professor, Department of Chemistry, Indian Institute of Technology Delhi (IITD), Hauz Khas, New Delhi-110 016	Dr. Swati Kota	2019-2020	3 Years	Research Collaboration	Life Sciences	3337600
137	Effect of nuclear density approximation and shellclosure inthedynamics of heavy-ioninduced reactions	Dr. Raj Kumar, Assistant Professor, SPMS, Thapar Institute of Engineering & Technology, Patiala-147 004, Punjab	Dr. S.K. Patra, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	1977600
138	Theoretical Investigation of Thermoelectric Materials	Dr. Kanchana Venkatakrishnan, Professor, Department of Physics, Indian Institute of Technology-Hyderabad, Kandi-502 285, Sangareddy, Telengana	Ranjan Mittal, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	2709418
139	High throughput synthesis of nanoliposomes in microfluidic reactors for efficient delivery of anticancer drugs	Dr. Sanjay Singh, Associate Professor, Division of Biological & Life Sciences, Ahmedabad University, Commerce Six Roads, Navrangpura, Ahmedabad, Gujarat-380009	Dr. Beena Singh, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3080350
140	Surface Properties of Weyl Semimetals	Dr. Arijit Kundu, Assistant Professor, Department of Physics, Indian Institute of Technology-Kanpur, Kanpur, Uttar Pradesh-208016	Prof. Pinaki Majumdar, HCRI	2019-2020	3 Years	Research Collaboration	Physical Sciences	1768100

Pandey 19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

141	Towards Selective Cell Membrane Platforms for Drug-Membrane Interactions Biophysical Insights into Activity and Toxicity	Dr. Shobhna Kapoor, Assistant Professor, Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Mumbai- 400 076	Dr. Abhijit Chakraborti, SINP	2019-2020	3 Years	Research Collaboration	Life Sciences	2410400
142	Realization of a prototype spin valve based on perovskite oxide superlattice Sr2FeMoO6 LaBO3(B Fe)	Dr. Suvankar Chakraverty, Institute of Nano Science & Technology, Habitat Centre, Phase-10, Sector-64, Mohali, Punjab-160062	Dr. Surendra Singh, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	2544100
143	Development of magnetically recyclable visible light photocatalysts for H2O2 production	Dr. Indrajit Sinha, Associate Professor, Department of Chemistry, Indian Institute of Technology (BHU). Varanasi - 221005, Uttar Pradesh	Dr. Mrinal Rajesh Pai, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3405850
144	Synthesis of earth abundant, low cost, environmentally harmless Cu2MSnX4 (CNTS/Se)-based thin film solar cells	Dr. Kishor M Sonawane, Dept. of Physics, Fergusson College, F.C.Road, Pune, Maharashtra-411004	Dr. Namita Maiti, BARC	2019-2020	3 Years	Research Collaboration	Engineering Sciences	3486300
145	Fluorescence and colorimetric recognition of some lanthanides and actinides using several new probes	Dr. Debasis Das, Professor, Department of Chemistry, University of Burdwan, Rajbati, Burdwan, West Bengal- 713104	Dr. Arunasis Bhattacharyya, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3438350

Pandey
19.8.2020
Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

146	Estimation of Diffuse Extra Galactic Background Light Through VHE Gamma ray Observation of Blazars	Dr. Naseer Iqbal, Professor, Dept. of Physics, University of Kashmir, Hazratbal, Srinagar, Jammu & Kashmir-190006, India	Sunder Sahayanathan, ApSD	2019-2020	3 Years	Research Collaboration	Physical Sciences	3360700
147	Development of transition metal based porous hollow structures for superior energy conversion and storage applications	Dr. Asit Baran Panda, Sr. Scientist, CSIR-Central Salt & Marine ChemicalsResearch Institute, G.B. Marg, Bhavnagar-364 002, Gujarat	Ashis Kumar Satpati, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3374200
148	Porosity controls on gas storage in unconventional hydrocarbon reservoirs through neutron scattering techniques	Dr. Vikram Vishal, Assistant Professor, Dept. of Earth Sciences, Indian Institute of Technology-Bombay, Powai, Mumbai-400076, Maharashtra	debasis Sen, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	1842100
149	Composition engineering of half metallic Heusler alloys for spintronic applications	Dr. Anushree Roy, Department of Physics, Indian Institute of Technology-Kharagpur, Kharagpur-721302, West Bengal, India	Dr. S.M. Yusuf, SSPD	2019-2020	3 Years	Research Collaboration	Physical Sciences	2845600
150	Analytical and Numerical Study of Black Holes in Strong Gravity Regime	Dr. Ayan Chatterjee, Department of Physics and Astronomical Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, Kangra, Himachal Pradesh-176206	Dr. Amit Ghosh, SINP	2019-2020	3 Years	Research Collaboration	Physical Sciences	2737350

Pandey
19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
B.A.R.C., Trombay, Mumbai - 400085

151	Synthesis, development and efficacy of functionalized Hollow Gold Nanoparticles for Glioblastoma	Dr. Tabassum Khan, SVKMs Dr. Bhanuben Nanavati College of Pharmacy, Mithibai College Campus, V.M. Road, Vile Parle West, Mumbai-400056	Dr. RS Ningthoujam, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3497330
152	Tungsten and Indium Oxide Coated Dendritic Fibrous Nanosilica for Photocatalytic Water Splitting	Dr. Atul V Wankhade, Dept. of Chemistry, Visvesvaraya National Institute of Technology (VNIT), Nagpur-440010, Maharashtra	Dr. Vivek Polshettiwar, TIFR	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3483350
153	A polydiacetylene-based fluorescent sensor for the detection of arsenic species and uranyl ion in water by conventional and nuclear analytical methods	Dr. Amrita Chatterjee, Department of Chemistry, BITS Pilani K. K. Birla Goa Campus, NH 17B Bypass Road, Zuarinagar, Goa-403726	Dr. Raghunath Acharya, BARC	2019-2020	3 Years	Research Collaboration	Chemical Sciences	3208355
154	Study of High-multiplicity Proton+Proton Collisions at the LHC Energies using Event Shape Method	Dr. Raghunath Sahoo, Associate Professor, Indian Institute of Technology-Indore (IITI), Department of Physics, Simrol, Khandwa Road, Indore-453552, Madhya Pradesh	Dr. Jan-e Alam, VECC	2019-2020	3 Years	Research Collaboration	Physical Sciences	2503100
155	Coupling of spin, lattice, and electronic degrees of freedom across the metal-insulator transition	Dr. Dipanshu Bansal, Assistant Professor, Department of Mechanical Engineering, IIT Bombay, Powai, Mumbai-400076	Dr. Ranjan Mittal, BARC	2019-2020	3 Years	Research Collaboration	Physical Sciences	3363250

Pandey
19.8.2020

Ashok K. Pandey
Programme Officer
Board of Research in Nuclear Sciences,
Department of Atomic Energy,
BRNS Secretariat, 3rd Floor, CFB
A.R.C., Trombay, Mumbai - 400085