**PAKISTAN SCIENCE FOUNDATION**

**ISLAMABAD**

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**Proposals Selected for Funding under PSF-NSFC 4th Call**

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| **Sr.#** | **Project Title and No.** | **Name, Designation, and Organization of Pakistani PI** | **Name, Designation, Organization of Chinese PI** |
|  | Development of Flexible Electrode Materials with High Conductivity and Catalytic Activity for Room Temperature Sodium-Sulfur Batteries  PSF-NSFC IV-146 | Dr. Zeeshan Ali  Assistant Professor,  School of Chemical and Materials Engineering (SCME),  National University of Sciences and Technology,  Islamabad, | Prof. Dr. Yan Yu,  Department of Materials Science and Engineering, University of Science and Technology of China, Hefei, Anhui, P.R. China. |
|  | Towards Efficient and Large-scale Quantum Dots Solar Cells  PSF-NSFC IV-38 | Prof. Dr. Muhammad Hassan Sayyad  Faculty of Engineering Sciences,  Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, District Swabi | Prof. Dr. Wanli Ma. FUNSOM, Dushu-Lake Campus, Soochow University, 199 Ren-Ai Road, Suzhou Industrial Park Suzhou, Jiangsu, 215123, P.R. China |
|  | Design of Graphene And 2D Materials Based Flexible SERS Sensor And Realization Of Self Cleaning Function  PSF-NSFC IV-150 | Dr. Arshad Saleem Bhatti  Dept. of Physics,  COMSATS University Islamabad | Prof. Dr. Minqiang  Electronic Materisals Research Laborartory Xi’an Jiatong University, West Xianning, China |
|  | From Microscale To Macroscale – Pathway For Multiscale Simulations of Coal Gasifiers  PSF-NSFC IV-123 | Dr. Atta Ullah  Associate professor  Department of Chemical Engineering  PIEAS Islamabad | Dr. Fei Li  Associate Professor  Institute of Process Engineering Chinese Academy Of Sciences, Beijing China |
|  | Organic-Inorganic Hybrid Microporous Polymeric Nanocomposites For The Capture And Conversion of CO2 – Applications In Environment And Energy Technologies  PSF-NSFC IV-75 | Prof. Dr. Irshad Hussain  SBA School of Science & Engineering,  Lahore University of Management Sciences (LUMS) Lahore | Prof. Bien Tan Huazhong University of Science and Technology, 1037 Luoyu Road, |
|  | Metal-Organic Framework-based Materials for Photocatalytic and Electrocatalytic Production of Hydrogen Fuels  PSF-NSFC IV-141 | Dr. Amir Waseem  Professor  Department of Chemistry Quaid-e-Azam University, Islamabad | Dr. Hai-Long Jiang  Department of Chemistry, University of Science and Technology of China, Hefei 230026, China |
|  | Highly Luminescent  Down-Shifting Metal Halide Nanocrystal/Borosilicate Composite Glass for Improving Utilization Efficiency Of Solar Energy  PSF-NSFC IV-130 | Prof. Shahid Ali  University of Peshawar, Peshawar | Prof. Hongbin Yao  University of Science and Technology of China |
|  | Safety Evaluation and Adaptation Mechanism of Water-Energy-Food Nexus in CPEC under Climate Change  PSF-NSFC IV-128 | Dr. Rasool Bux Mahar  Mehran University Of Engineering And Technology, Jamshoro | Yaning chen  Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences  818, South Neijing China |
|  | Genetic Adaptability and Water-fertilizer Intelligent Regulation Mechanism of Climate Smart Varieties.  PSF-NSFC IV-83 | Professor Dr. Asif Ali  Institute of Plant Breeding and Genetics  Muhammad Nawaz Shareef University of Agriculture Multan | Prof. Dr. Zhang Rui  Zhongguancun South St., Haidian District, Beijing, China |
|  | Solar-Light-Driven Simultaneous Hydrogen Generation and Water Purification by Synergetic Adsorption and Photocatalysis  PSF-NSFC IV-43 | Dr. Faryal Idrees  University of the Punjab, Quaid-e-Azam, Campus, Pakistan | Prof. Dr. JijunZou: Tianjin University, Tianjin 300072, China |
|  | Co-Utilization of Methanol And Sugarcane Hydrolysates For Production of Fatty Acids Derivatives  PSF-NSFC IV-101 | Dr. Aamer Ali Shah,  Associate Professor & Chairperson Department of Microbiology Faculty of Biological Sciences Quaid-i-Azam University, Islamabad | Prof. yongjin zhou  Division of Biotechnology, institute of chemical physics, CAS, No. 457, Zhong Shen Road, Dalian China |
|  | Selective Conversion Of N,N-Dimethylformamide (DMF) As Battery Solvent Using Stable And Efficient Hybrid Nanocatalysts  PSF-NSFC IV-93 | Prof. Dr. Mazhar Mehmood  Professor (Metallurgy and Materials Engineering)  Director (Quality Assurance)  National Centre for Nanotechnology (NCN), Department of Metallurgy  and Materials Engineering (DMME), PIEAS, Nilore, Islamabad | Prof. Dr. Zhen-Yu  Institute of Engineering Thermophysics, Chinese Academy of Sciences  Tian  Beisihuanxi Rd., Beijing, China |