



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

Minutes of SPARC Apex Committee Meeting held on 10.04.19

The Apex Committee constituted for considering the projects to be sanctioned under the Scheme for Promotion of Academic and Research Collaboration (SPARC) has met under the Chairmanship of Secretary, Higher Education on 10th April 2019. The list of participants is enclosed.

2. The meeting took stock of the progress in the projects sanctioned thus far and noted that for all the 282 projects, sanction letters, review reports and a seed money of 7.5 lakhs have already been sent to PIs (respective Institutions). In this respect, the following have been decided after deliberations:

- a) The National Coordinator will, before the next meeting, prepare a Knowledge Portal in association with IMPRINT (if needed) and ensure that all the PIs may be asked to give a gist of their project: i) name of the project, ii) brief description, iii) the expected milestones, iv) amount sanctioned, v) teams created vi) latest progress vii) publications if any made or patents registered if any. These pages should be linked with the knowledge portal of the IMPRINT and shall also be available on the National Digital Library. It was decided that after the data is uploaded by the PI, the same may be vetted by the Domain Head before showing in the public domain.
- b) A meeting would be held with the Nodal Institutions responsible for each Country so as to orient them of their role in the approved projects of SPARC and for ensuring smooth functioning of projects.
- c) JS (ICC) would write to Indian Ambassadors/High Commissioners (with a copy to MEA) where more than 10 projects have been approved, requesting them to fix a convenient date for SPARC workshops to be held in Delhi or elsewhere in India.

3. The Committee then has considered the (314) projects for which reviews have been completed. After due deliberations, the Committee has decided as follows:

- a) The (81) projects with a total budget of Rs.5325.08 Lakh which have been recommended by the Domain expert committees are approved, with a request to the NC to immediately convey the sanction and release the first installment of the funds so that they would get started. The list of approved projects is enclosed.



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

- b) A Capacity Building Workshop on a regional basis shall be organised by the UGC between May - July of 2019 for institutions whose proposals have not passed the scrutiny, and also the top 100 NIRF ranking institutions which have not participated in the programme so far. The Nodal Institutions should also be involved actively.
 - c) The next / second call for SPARC proposals should be announced in mid August 2019, only after concluding these workshops and preparing all the institutions for submission of the project proposals.
 - d) The current procedure of using both Numerical Ratings and Subjective qualifications (Strong Accept / Accept / Weak Accept / Reject) should be avoided, to make the process more objective.
 - e) Hereafter, the Abstract of each project of the recommended proposals shall be placed for consideration of the Apex Committee.
4. The committee has noted further the following:
- a) The Grand Challenge in Humanities (Digital Humanities) is being organised by IIT Indore, on 18th April 2019. It is desired that Apex Committee members may be invited for the same.
 - b) The UKIERI is contributing Rs.7.9 Crores as additional funding in the approved SPARC projects from UK.
 - c) All the PIs of SPARC Projects must be intimated that they acknowledge MHRD for SPARC funding in their research articles.
5. The next meeting of the Apex Committee Meeting would be held on 22.05.2019 at 10.30 AM. The Meeting ended with thanks to the Chair.



सत्यमेव जयते

F N: 13-52/2018-ICC
Government of India
Ministry of Human Resource Development
Department of Higher Education

List of Participants:

1. Mr. R. Subrahmanyam, Secretary (Higher Education), MHRD – Chair
2. Dr N Saravana Kumar, JS (ICC), MHRD
3. Ms Darshana Dabral, JS & FA, MHRD
4. Professor Partha P. Chakrabarti, Director, IIT, Kharagpur
5. Professor Virander S. Chauhan, Chairman, Executive Committee, NAAC
6. Professor Bhushan Patwardhan, Vice Chairman, UGC
7. Dr. Manju Singh, Joint Secretary, UGC
8. Professor Anil Sahasrabudhe, Chairman, AICTE
9. Professor Adrijit Goswami, IIT, Kharagpur
10. Professor Indranil Manna (through VC), IIT, Kharagpur
11. Dr. Amitava Roy, SC-G, DST
12. Dr. S. Vaidhyasubramaniam, Vice Chancellor, SASTRA Deemed University
13. Dr. Anamika, Senior Consultant, MHRD



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

Phase III Approved Proposals

Row Labels	No of Proposals	Total SPARC Budget (in Lakhs)
Action-Oriented Research	17	1170.17
<i>Agricultural and Food Sustainability</i>	9	639.14
#280 [Accept] [7.5] [Chaudhary Charan Singh Haryana Agricultural University-Prof. Surender Singh] [ETH ZURICH (SWISS FEDERAL INSTITUTE OF TECHNOLOGY), Switzerland-Prof. Werner Eugster] Promoting climate smart farming through agro-meteorological techniques	1	69.6
#1001 [Accept] [7.5] [Chaudhary Charan Singh Haryana Agricultural University-Dr. Renu Munjal] [THE UNIVERSITY OF SYDNEY, Australia-Dr. Urmil Bansal] Combing rust resistance with non-structural carbohydrates (NSC) in wheat to achieve food security	1	72
#1502 [Accept] [7.25] [Thiagarajar College of Engineering-Dr. Sundararaj Chandran] [UNIVERSITY OF WISCONSIN-MADISON, United States of America-Dr. Sundaram Gunasekaran] BIOREMEDIATION OF URBAN SITES CONTAMINATED DUE TO MUNICIPAL WASTEWATER DISPOSAL	1	73.48
#891 [Accept] [7.17] [Indian Institute of Technology Madras-Prof. Sudheer KP] [PURDUE UNIVERSITY, United States of America-Prof. Indrajeet Chaubey] Enhancing the water use efficiency in agriculture practices in Himalayan region	1	52.34
#1285 [Accept] [7] [Indian Institute of Technology Kharagpur-Dr. Damodhar R Mailapalli] [WESTERN SYDNEY UNIVERSITY, Australia-Prof. Basant Maheshwari] Securing Water for Agricultural and Food Sustainability: Developing Transdisciplinary Approach to Groundwater Management	1	58.56
#302 [Weak Accept] [6.75] [National Institute of Technology Surathkal-Dr. Pradyot Ranjan Jena] [KYUSHU UNIVERSITY, Japan-Prof. Shunsuke Managi] Adaptation of Climate Smart Agriculture Practices: Challenges and Opportunity for Indian	1	48.36



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development
Department of Higher Education

Smallholder Farmers		
#369 [Accept] [6.25] [Indian Institute of Technology Kharagpur-Prof. Hari Niwas Mishra] [THE UNIVERSITY OF MELBOURNE, Australia-Prof. Muthupandian Ashokkumar] Liposomes for control release of health promoting factors such as multivitamins (Vit D, A, B 9 and B 12), omega 3 fatty acids and bioactives (bacosides)	1	90
#787 [Weak Accept] [6.25] [Indian Institute of Technology Madras-Prof. Prakash Maiya Manoor] [NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, Norway-Dr. Armin Hafner] Performance enhancement of CO2 refrigeration system with thermal energy storage (TES) for Indian dairy industry (DAIRY-TES)	1	79.8
#463 [Weak Accept] [6] [Indian Institute of Management Udaipur-Dr. Dharendra Mani Shukla] [AUSTRALIAN NATIONAL UNIVERSITY (ANU), Australia-Prof. Babita Bhatt] Agricultural Knowledge Transfer at the Base of the Pyramid: A Sociological Perspective	1	95
River, Ocean, Aviation and Space Management Technologies	3	157.74
#1103 [Accept] [8] [Indian Institute of Technology Kanpur-Dr. Rakesh Kumar] [UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, United States of America-Prof. Deborah A. Levin] Development of Computational Model for Multi-physics Simulation of Flows during Planetary Landing of Spacecrafts	1	39.6
#1181 [Accept] [6.25] [Indian Institute of Technology Madras-Dr. Suresh Rajendran] [UNIVERSITY OF TROMSO, Norway-Dr. Lokukaluge Prasad Perera] Advanced Ship Manoeuvring Prediction based on Machine Learning and Artificial Intelligence for Autonomous Ship Navigation	1	43.14
#1228 [Accept] [6] [Indian Institute of Technology Mandi-Dr. Kasiviswanathan Kasiapillai Sudalaimuthu] [HERIOT-WATT UNIVERSITY, United Kingdom-Prof. Adebayo Johanson Adeloye] Mitigation of dam induced flood disaster due to hydrological extremes	1	75



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

<i>Technology Enhanced Education and Learning (including Assistive Technologies)</i>	3	212.81
#1161 [Strong Accept] [9] [Indian Institute of Technology Delhi-Prof. Meenakshi Balakrishnan] [UNIVERSITY OF BIRMINGHAM, United Kingdom-Dr. Volker Sorge] Creating Accessible STEM Documents	1	63.84
#668 [Accept] [7] [Post Graduate Institute of Medical Education and Research-Prof. Rashmi Bagga] [UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, United States of America-Dr. Nadia Griffin Diamond Smith] EXPANDING INNOVATION IN MHEALTH FOR MATERNAL AND CHILD HEALTH: TRAINING IN MHEALTH DESIGN AND EVALUATION	1	68.43
#1267 [Accept] [8.25] [Tata Institute of Social Sciences-Prof. Padma - Sarangapani] [MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT), United States of America-Dr. Vijay Kumar] Connected Learning: Innovation Diffusion of EdTech for quality at scale	1	80.54
<i>Technologies for Rural and Women Empowerment</i>	1	95.44
#1412 [Accept] [7.5] [Indian Institute of Technology Delhi-Prof. Anil Verma] [WASHINGTON UNIVERSITY IN ST. LOUIS, United States of America-Prof. Vijay K Ramani] Development and Deployment of Redox-flow Battery Energy Storage for Rural Electrification	1	95.44
<i>Law and Society</i>	1	65.04
#1442 [Accept] [7] [Indian Institute of Technology Kanpur-Dr. Murali Prasad Panta] [LA TROBE UNIVERSITY, Australia-Prof. Aniruddha A Desai] The Socio-economic Costs of Road Crashes in India - Evaluation of the Role of Ex-ante and Ex-post Policies	1	65.04
Convergence	27	1657.05
<i>Energy and Water Sustainability</i>	8	491.24
#1065 [Strong Accept] [8.75] [Jadavpur University-Prof. Achintya Mukhopadhyay] [PENNSYLVANIA STATE UNIVERSITY, United States of America-Prof. Asok Ray] Data-driven Early Prediction of Abnormal Behaviour of Combustion	1	48.96



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

Systems using Machine Learning Strategies		
#897 [Strong Accept] [8] [Jamia Millia Islamia-Prof. Hina Zia] [TSINGHUA UNIVERSITY, China-Dr. Da Yan] Study on low-carbon pathways for building sector in India	1	52.5
#1024 [Strong Accept] [7.75] [University College of Engineering Hyderabad-Prof. GOPAL NAIK M] [TEXAS A&M UNIVERSITY, United States of America-Dr. Srinivasulu Ale] Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad Metropolitan City	1	74.4
#815 [Accept] [7.5] [Indian Institute of Technology Mandi-Dr. Rik Rani Koner] [TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY, Israel-Dr. David Eisenberg] Engineering Novel Nanocomposites for Energy Storage and Conversion	1	59.35
#1012 [Accept] [7.92] [Indian Institute of Technology Kharagpur-Prof. Rintu Banerjee] [UNIVERSITY OF CALIFORNIA, BERKELEY (UCB), United States of America-Prof. Aindrila Mukhopadhyay] Enhanced 2G Bioethanol Production through Improved Cellulolytic Activities of Filamentous Fungi through Metabolic and Genetic Engineering Strategies	1	40.28
#806 [Accept] [7] [Indian Institute of Technology Madras-Dr. Mathava Kumar S] [UNIVERSITY OF TECHNOLOGY SYDNEY (UTS), Australia-Prof. Huu Hao Ngo] Biomass to energy from low strength municipal wastewater using a new microalgal-Anaerobic-membrane-bioreactor(s)	1	51.7
#1317 [Accept] [8] [Malaviya National Institute of Technology-Dr. Rohit Bhakar] [CARDIFF UNIVERSITY, United Kingdom-Prof. Jianzhong Wu] Market Models for Local Energy Transactions	1	89.05
#738 [Weak Accept] [6.25] [Indian Institute of Technology Madras-Prof. Sridharakumar Narasimhan] [COLUMBIA UNIVERSITY, United States of America-Prof. Venkat Venkatasubramanian] A Framework for Quantifying the Resilience of Complex Networks: Applications to Water	1	75



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

Distribution Networks and Power Grids		
Transportation and Smart Infrastructure	4	238.72
#1542 [Accept] [8.5] [Motilal Nehru National Institute of Technology-Prof. Asheesh Kumar Singh] [TECHNICAL UNIVERSITY OF DENMARK, Denmark-Prof. Vassilios G. Agelidis] E-Mobility: An Electricity Grid Perspective	1	74.32
#844 [Strong Accept] [9.25] [Indian Institute of Technology Madras-Prof. Manu Santhanam] [UNIVERSITY OF CAPE TOWN, South Africa-Prof. Mark Alexander] TOWARDS DURABILITY SPECIFICATIONS WITH RECYCLED AGGREGATE CONCRETE	1	72
#923 [Accept] [8] [Indian Institute of Technology (Banaras Hindu University) Varanasi-Dr. Santosh Kumar Singh] [THE UNIVERSITY OF WARWICK, United Kingdom-Prof. Richard Anthony McMahon] Prospects of power converters for Integration of Electric vehicle charging stations with the existing Electric distribution system in India	1	49.8
#337 [Accept] [6.25] [Indian Institute of Technology Bombay-Prof. Nagendra Rao Velaga] [IMPERIAL COLLEGE LONDON, United Kingdom-Prof. Aruna Sivakumar] Travel well-being indicators to support urban planning policy: A tale of two Indian cities	1	42.6
Affordable Health Care	12	723.37
#402 [Strong Accept] [8] [Shanmugha Arts Science Technology & Research Academy-Dr. John Bosco Balaguru Rayappan] [SUNGKYUNKWAN UNIVERSITY, South Korea-Prof. Jung Heon Lee] Affordable Colorimetric and Electrochemical Biosensors for the Early Stage Detection of Cervical Cancer	1	48
#473 [Weak Accept] [6] [National Institute of Technology Surathkal-Prof. Sumam David S] [BAYLOR COLLEGE OF MEDICINE, United States of America-Dr. Pichaiah Mandava] Exploring Applications of Radiomics in Brain Tumor Assessment and Treatment	1	54.72



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

#1429 [Weak Accept] [6.5] [Mahatma Gandhi University-Dr. Nandakumar Kalarikkal] [NANYANG TECHNOLOGICAL UNIVERSITY (NTU), Singapore-Dr. Murukeshan Vadakke Matham] NANOSCALE CONTRAST AGENTS FOR DIAGNOSTIC BIOMEDICAL IMAGING	1	59.9
#231 [Weak Accept] [6] [Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing (IITDM), Jabalpur-Dr. Ayan Seal] [UNIVERSIDAD POLITÉCNICA DE MADRID, Spain-Prof. Consuelo Gonzalo-Martin] Prediction of diseases through computer assisted diagnosis system using images captured by minimally-invasive and non-invasive modalities	1	49.62
#894 [Accept] [8] [Sri Ramachandra Institute of Higher Education and Research-Dr. N Malathi] [SHANGHAI JIAO TONG UNIVERSITY, China-Prof. Jiang LI] FORMULATION AND OPTIMIZATION OF A HERBAL MUCOADHESIVE GEL FOR ANTIFIBROTIC EFFECT IN ORAL SUBMUCOUS FIBROSIS USING ANIMAL MODELS	1	55.56
#1283 [Weak Accept] [6] [Sri Ramachandra Institute of Higher Education and Research-Dr. Jayakumar M] [TUFTS UNIVERSITY, United States of America-Dr. Gowri Raman] Evidence-based and patient-centered affordable healthcare in chronic kidney disease (CKD) among South Asian/Indian population	1	55.5
#367 [Accept] [8] [Vellore Institute of Technology-Prof. Arun K Sarma] [UNIVERSITÄT INNSBRUCK, Austria-Prof. Paul Scheier] Interlayer based TiN/DLC coating on Ti alloys and its mechanical properties for Medical applications	1	47.36
#134 [Weak Accept] [7] [SRM Institute of Science and Technology-Dr. Sridhar Arjunan] [RMIT UNIVERSITY, Australia-Prof. Dinesh Kumar] Design and development of electronic devices to measure gaze, handwriting, smell and gait for management of Parkinson's Disease	1	68.28
#1248 [Accept] [7.5] [Indian Institute of Technology Madras-Dr. Mohanasankar Sivaprakasam] [RWTH AACHEN UNIVERSITY, Germany-Prof. Steffen Leonhardt] Contactless physiological monitoring of newborns in hospital settings	1	69



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

#838 [Strong Accept] [9] [Indian Institute of Technology Madras-Dr. Satyanarayanan Seshadri] [NORTHWESTERN UNIVERSITY, United States of America-Prof. Neelesh Patankar] Aerosol transport in the deep lung to enable personalized pulmonary drug delivery (P2D2)	1	100
#721 [Strong Accept] [10] [Indian Institute of Technology Gandhinagar-Dr. Uttama Lahiri] [UNIVERSITY AT BUFFALO SUNY, United States of America-Dr. Anirban Dutta] VR-based Exergaming Platform in Conjunction with Neuroimaging Guided Non-Invasive Electrical Stimulation	1	74.86
#31 [Accept] [7.5] [Shanmugha Arts Science Technology & Research Academy-Dr. Ramkumar K] [NATIONAL UNIVERSITY OF SINGAPORE (NUS), Singapore-Dr. Lakshminarayanan Samavedham] Monitoring and early detection of Parkinson's disease using Multimodal statistical learning algorithms for improved health care	1	40.57
Advanced Manufacturing	3	203.72
#361 [Strong Accept] [8] [National Institute of Technology Tiruchirappalli-Dr. Sivaprasad Katakam] [NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, Norway-Dr. Filippo Berto] Additive manufacturing of next generation alloys	1	80.72
#723 [Strong Accept] [8.25] [Indian Institute of Technology Kharagpur-Prof. Indranil Manna] [UNIVERSITÄT ULM, Germany-Prof. Hans Jorg Fecht] LASER-ASSISTED ADDITIVE MANUFACTURING OF STEEL (LAMS)	1	49.8
#1149 [Strong Accept] [8] [Indian Institute of Technology Madras-Prof. RANJIT BAURI] [MCMASTER UNIVERSITY, Canada-Prof. Sumanth Shankar] Processing, joining and microstructure modeling of Net Shaped Casting of Primary Al-Zn-Mg alloys through an Integrated Computational Materials Engineering (ICME) approach	1	73.2
Emergent Areas of Impact	21	1309.33
Advanced Sensors, Electronics and Communication	4	266.53



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development
Department of Higher Education

#1494 [Strong Accept] [9] [Indian Institute of Engineering Science and Technology, Shibpur-Prof. Hafizur Rahaman] [PURDUE UNIVERSITY, United States of America-Prof. Kaushik Roy] Device, Circuits and Architectures for implementing Stochastic Spin Logic for Energy Efficient Boolean and Non-Boolean Computing	1	89.43
#963 [Accept] [8] [Indian Institute of Science-Dr. Prosenjit Sen] [UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA), United States of America-Prof. Subramanian S Iyer] Processing Technology for 3D Integration of Heterogeneous Devices	1	57.1
#541 [Accept] [7.5] [Indraprastha Institute of Information Technology Delhi-Dr. Sujay Deb] [UNIVERSITY OF FLORIDA, United States of America-Prof. Prabhat Mishra] Post-Silicon Debug Platform for Secured Systems	1	48
#1044 [Strong Accept] [8.75] [Indian Institute of Technology Indore-Dr. Abhirup Datta] [THE UNIVERSITY OF MANCHESTER, United Kingdom-Prof. Lucio Piccirillo] Pilot survey of CMB polarized foregrounds using a Single Dish	1	72
Artificial Intelligence and Cognitive Science	5	294.98
#1220 [Accept] [7.33] [Indian Institute of Technology Kharagpur-Dr. Blvas Mitra] [UNIVERSITY OF MARYLAND, BALTIMORE COUNTY, United States of America-Dr. Nirmalya Roy] StressSense: Developing a Framework for Early Detection of Stress and Depression from Smartphone Engagements	1	56.78
#8 [Accept] [7] [Symbiosis International-Dr. Madhura Ingalhalikar] [UNIVERSITY OF PENNSYLVANIA, United States of America-Prof. Ragini Verma] Multi-modality neuroimage analysis for brain pathologies	1	64.2
#846 [Accept] [6.75] [Indian Institute of Technology Jodhpur-Dr. Gaurav Harit] [UNIVERSITAT AUTÓNOMA DE BARCELONA, Spain-Prof. Ernest Valveny] Text and Image Semantic Graphs	1	60
#294 [Accept] [6.67] [Indian Institute of Technology Roorkee-Prof. Brajesh Kumar Kaushik] [PURDUE UNIVERSITY, United States of America-Prof. Kaushik Roy] Spintronics based in-	1	71.4



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

memory computing for neuromorphic applications		
#682 [Weak Accept] [6.25] [Indian Institute of Technology Mandi-Dr. Sriram Kailasam] [NATIONAL RESEARCH UNIVERSITY - HIGHER SCHOOL OF ECONOMICS (HSE), Russia-Dr. Sergei Obiedkov] Distributed Algorithms for Formal Concept Analysis	1	42.6
Advanced Functional and Meta Materials	8	550.35
#474 [Accept] [7.75] [Visva Bharati-Prof. ASHIS BHATTACHARJEE] [OSAKA UNIVERSITY, Japan-Prof. YASUHIRO NAKAZAWA] Single Molecule Magnets and Molecular Magnetic Coolers from Lanthanide-based Metal-Organic Framework Materials	1	50.8
#409 [Accept] [7.75] [Indian Institute of Technology Kharagpur-Prof. Ramkrishna Sen] [CURTIN UNIVERSITY, Australia-Dr. Navdeep Dhami] Sustainable cement through emulation of biogeochemical processes of nature: translation to field scale	1	80.81
#573 [Accept] [7.75] [Defence Institute of Advanced Technology-Prof. Pawan Kumar Khanna] [UNIVERSITY OF OTTAWA, Canada-Dr. EVA HEMMER] Production of White Light Emitting Magic Sized Clusters based on doped and undoped II-VI Semiconductors for potential LED application.	1	66
#843 [Accept] [7.75] [Jamia Millia Islamia-Dr. Tokeer Ahmad] [TEXAS A&M UNIVERSITY, United States of America-Prof. Sarbajit Banerjee] Development of Graphitic Carbon Nitride (g-C ₃ N ₄) and its doped Nanostructured Analogous for Clean and Green Energy Applications Emphasizing on Hydrogen Generation	1	85.63
#124 [Accept] [7.25] [National Institute of Technology Tiruchirappalli-Dr. Somenath Garai] [RHEINISCH-WESTFÄLISCHE TECHNISCHE HOCHSCHULE AACHEN, Germany-Prof. Paul Koegerler] Photo induced Electron Transfer and Facile Charge Separation for Energy Applications	1	49.69



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

#574 [Weak Accept] [7] [Indian Institute of Technology (Indian School of Mines) Dhanbad-Dr. Sarat Kumar Panda] [MCGILL UNIVERSITY, Canada-Prof. Marco Amabili] Nonlinear vibrations and instability analysis of composite structural elements through advanced shear-deformation theories and homogenization based damage model.	1	49.92
#207 [Weak Accept] [6.25] [PSG College of Technology-Dr. Krishnaraj Vijayan] [THE UNIVERSITY OF NEW SOUTH WALES (UNSW), Australia-Dr. Juan Pablo Escobedo-Diaz] Co-Continuous Ceramic Composites for Ballistic Protection	1	100.3
#828 [Weak Accept] [6] [Malaviya National Institute of Technology-Dr. Amar Patnaik] [TECHNISCHE UNIVERSITÄT WIEN, Austria-Prof. Ernst Kozeschnik] Modeling a combinatorial approach for design of steel with ultra-high strength and toughness.	1	67.2
Infectious Diseases & Clinical Research	4	197.47
#414 [Accept] [7] [Indian Institute of Technology Delhi-Prof. Ravikrishnan Elangovan] [UNIVERSITY OF EDINBURGH, United Kingdom-Prof. Till Bachmann] Catalyzing medical diagnostic technology innovation from bench to bedside	1	61.2
#632 [Accept] [7] [Sri Ramachandra Institute of Higher Education and Research-Dr. Padma Srikanth] [UNIVERSITAT AUTÓNOMA DE BARCELONA, Spain-Dr. Arben Merkoci] MLFA Development and Evaluation: RUB19 (Development and Evaluation of a Multiplex Lateral Flow Assay to screen for RUBella and B19 parvovirus)	1	52.43
#1349 [Accept] [6.75] [Indian Institute of Technology Delhi-Prof. Jitendra Pratap Singh] [THE UNIVERSITY OF GEORGIA, United States of America-Prof. Yiping Zhao] Nanofabrication of sculptured thin films by a combination of glancing angle deposition and shadow sphere lithography and their application in Nano-photonics and Biosensors.	1	43.88
#1025 [Weak Accept] [6.42] [Jamia Millia Islamia-Dr. Panchali Batra] [THE UNIVERSITY OF MANCHESTER, United Kingdom-Dr. Badri Tiruvenkatachari] Evaluation of cleft care outcomes of non-syndromic unilateral cleft lip and palate(UCLP) patients at ages 5,12 and 20 across India: The Cleft Care India Study.	1	39.96



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

Fundamental Research	11	883.49
<i>Applied and Interdisciplinary Sciences</i>	3	122.89
#385 [Accept] [6.5] [Panjab University-Dr. Rohit Kumar Sharma] [OSAKA UNIVERSITY, Japan-Prof. Hironobu Hojo] Anti-leukemia Peptide conjugated Quantum Dot based Targeted Nanofumulations as New-Age Theranostics	1	38.3
#1039 [Accept] [7.5] [Indian Institute of Technology Madras-Prof. Santanu Ghosh] [NORTH CAROLINA STATE UNIVERSITY, United States of America-Prof. Venkateswaran Narayanaswamy] Numerical and Experimental Investigation of Flow-separation Control Using Passive Mechanisms in High-speed Flows	1	48
#805 [Accept] [6.5] [Indian Institute of Technology Madras-Dr. Balaji Srinivasan] [TEXAS A&M UNIVERSITY, United States of America-Prof. Sharath Girimaji] Investigation of the effects of compressibility and rarefaction on turbulent flows.	1	36.59
<i>Computational and Mathematical Science</i>	2	126.54
#567 [Strong Accept] [8.75] [Indian Institute of Technology Gandhinagar-Dr. Atul Dixit] [Queen's University at Kingston, Canada-Dr. M. Ram Murty] Problems in Analytic and Combinatorial Number theory	1	81
#1126 [Accept] [7.75] [Indian Institute of Technology Bombay-Prof. Krishna S] [UNIVERSITY OF LIVERPOOL, United Kingdom-Prof. Sven Schewe] Time-Critical Distributed Software (TiCDSOft)	1	45.54
<i>Humanities and Social Sciences</i>	6	634.06
#1136 [Accept] [8.5] [Jamia Millia Islamia-Prof. Nishat Zaidi] [RUPRECHT-KARLS-UNIVERSITÄT HEIDELBERG, Germany-Prof. Hans Harder] Debating and Calibrating the 'Vernacular' in South Asian Colonial and Post-colonial Literature(s) and Public Spheres"	1	75
#38 [Accept] [7] [Symbiosis International-Dr. Madhura Manish Bedarkar] [DEAKIN UNIVERSITY, Australia-Dr. Alexander Newman] The Interplay of Social, Human, Financial and Psychological Capital in Shaping Entrepreneurial Outcomes of Women Entrepreneurs: An Indian Perspective	1	24.7



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

#209 [Accept] [7] [Pondicherry University-Dr. KALPANA HULLURU] [YORK UNIVERSITY, Canada-Dr. Shobna Nijhawan] Developing Responsible Global Citizenship through the Teaching of Languages, Literatures, Cultures and Society	1	340.2
#1150 [Accept] [6.75] [Jamia Millia Islamia-Prof. Simi Malhotra] [JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG, Germany-Prof. Isabel Karremann] New Terrains of Consciousness: Globalization, Sensory Environments and Local Cultures of Knowledge	1	56.4
#1200 [Accept] [6.5] [University of Delhi-Prof. BALAGANAPATHI DEVARAKONDA] [CITY UNIVERSITY OF NEW YORK, United States of America-Dr. Vishwa Adluri] Yoga Consciousness in Mahabharata and Bhagavadgita : The Ethical Value for Societal/Political Well-being	1	75
#149 [Accept] [6] [Pondicherry University-Dr. Jaya Sankar Babu Chayapuram] [UNIVERSITY OF GHENT, Belgium-Prof. Eva De Clercq] The history of Hindi: from Apabhramsa to early modern vernacular	1	62.76
Innovation-Driven	5	305.04
Design Innovation	1	90.64
#66 [Accept] [6] [Indian Institute of Technology Roorkee-Prof. Dhish Kumar Saxena] [MICHIGAN STATE UNIVERSITY, United States of America-Prof. Kalyanmoy Deb] INNOVIZATION: Discovery of Innovative Knowledge through Optimization and Machine Learning	1	90.64
Technologies for Forensics, Security and Safety	3	200
#1547 [Strong Accept] [8.5] [Indian Institute of Technology Delhi-Prof. Vasant Matsagar] [ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG, Germany-Prof. Leonhard Reindl] Airborne Sensors for Disaster Management	1	67.44
#189 [Accept] [6.75] [Indian Institute of Engineering Science and Technology, Shibpur-Dr. Sukanta Das] [UNIVERSITY OF TURKU, Finland-Prof. Jarkko Kari] Exploring Cellular Automata Model for Hardware Security	1	64.16



सत्यमेव जयते

F N: 13-52/2018-ICC

Government of India

Ministry of Human Resource Development

Department of Higher Education

#701 [Accept] [6.75] [Indian Institute of Technology Bhubaneswar-Dr. Srinivas Pinisetty] [THE UNIVERSITY OF AUCKLAND, New Zealand-Dr. Partha S Roop] Securing Implantable Medical Devices using Formal Methods	1	68.4
<i>Nano, Biotechnology and Applications</i>	1	14.4
#705 [Accept] [7] [Indian Institute of Technology Guwahati-Dr. Souptick Chanda] [FLINDERS UNIVERSITY, Australia-Prof. Mark Taylor] Investigation on the Influence of Ferromagnetic Coating on Bone Ingrowth in Hip Stems Made of Composite Titanium-Tantalum (Ti-Ta) Foam	1	14.4
Grand Total	81	5325.08