

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the
Gender, caste, and education in India: A cohort-wise study of drop-out from Schools	Shobhit Goel & Zakir Husain	Research in Social Stratification and Mobility	2018	7	2	IIT Kharagpur
Has the National Health Mission improved Maternal Healthcare services in Bihar	Saswata Ghosh & Zakir Husain	Economic & Political Weekly	2019	8	-	Presidency University
Spontaneous superlattice structures in $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ (100) grown by metalorganic vapor phase epitaxy	Pradhan, A., Maitra, T., Mukherjee, S., Mukherjee, S., Nayak, A., Satpati, B., Bhunia, S.	<i>Materials Letts.</i> Vol. 210, P. 77-79.	2018		1	Presidency University
Evaluation of spontaneous superlattice ordering in MOCVD grown $\text{Al}_x\text{Ga}_{1-x}\text{As}$ epilayer on GaAs (100) using X-ray reflectivity and rocking curve analysis.	Maitra, T., Pradhan, A., Mukherjee, S., Mukherjee, S., Nayak, A., Bhunia, S.	<i>Physica E: Low-dimensional Systems and Nanostructures.</i> Vol. 106, P. 357-362	2018			Presidency University
Fast responsive Mg/ZnSnP <sub>2</sub> /Sn photodetector for visible to near-infrared application	Mukherjee, S., Maitra, T., Pradhan, A., Mukherjee, S., Manna, G., Bhunia, S., Nayak, A.	Solar Energy Materials and Solar Cells. Vol. 189, P. 181-187	2019		1	Presidency University

Tuning of near infrared excitonic emission from InAs quantum dots by controlling the sub-monolayer coverage.	Mukherjee, S., Pradhan, A., Mukherjee, S., Maitra, T., Sengupta, S., Satpati, B., Chakrabarti, S., Nayak, A. ., Bhunia, S.	<i>J. Luminescence.</i> Vol. 210, P. 311-321.	2019			Presidency University
Temperature and excitation dependent ultraviolet lasing in vertically oriented ZnO nanowires.	Maitra, T., Pradhan, A., Mukherjee, S., Mukherjee, S., Nayak, A., Bhunia, S.	<i>J. Mater. Sci.: Materials for Electronics.</i> Vol. 30, P. 8814-8819	2019			Presidency University
Stress mapping of Sundarban mangroves with Sentinel-2 images using Discriminant Normalised Vegetation Index (DNVI) and Fuzzy classification technique.	Manna, S. and Raychaudhuri, B.	<i>Jour. Of Geomatics</i> , Vol. 13, pp. 117-131	2019			Presidency University
Interannual variation of atmospheric carbon dioxide concentration derived from Orbiting Carbon Observatory-2 (OCO-2) data compared with its local and large-scale variations obtained from NASA Giovanni database.	Raychaudhuri, B., and Sen Chaudhuri, T.	<i>Journal of Geomatics</i> , Vol. 13, No. 1, pp. 134–137.	2019			Presidency University
Electronic states and charge transport in a class of low dimensional structured systems	Chakrabarti, A.	Physica E (Invited Review)	2019			Presidency University

Spin-polarised localization in a magnetized chain	Benini, L., Mukherjee, A., Chakrabarti, Arunava, and Roemer, R. A.	Scientific Reports, Vol. 9, pp. 1-12	2019			Presidency University
Spin-selective Aharonov-Casher caging in a topological quantum network	Mukherjee, A., Roemer, R.A., and Chakrabarti, A.	Physical Review B, Vol. 100, 161108 (R)	2019			Presidency University
Controlled trapping of single particle states on a periodic substrate by deterministic trapping	Mukherjee, A., Nandy, A., and Chakrabarti, A.	Physics Letters A, Vol. 383, Article ID:125987	2019			Presidency University
Flux driven and geometry controlled spin filtering for arbitrary spins in aperiodic quantum networks	Mukherjee, A. Nandy, A., and Chakrabarti, A.	Physical Review B, Vol. 98, Article ID:075415	2019			Presidency University
A method to determine the evolution history of the mean neutral Hydrogen fraction	Mondal, R., Bharadwaj, S., Iliev, T., Datta, K., Majumder, S., Shaw, A., Sarkar, A. K.	MNRAS	2018		2	Presidency Univ
Impact of inhomogeneous CMB heating of gas on the HI 21-cm signal during dark ages	Ansar, S., Datta, K.K., Dutta Chowdhury, D.	PRD	2018			Presidency Univ
Distribution of relaxation time in solution-processed polycrystalline CZTS thin films: Study of impedance spectroscopy	Khanra, A., Gayen, R. N.	Ceramics International	2018			Presidency University
Revisiting the physiology of ascent of sap in plants: legendary experiment of J. C. Bose	Das, S. K., Dutta, D., Naskar, S., Palchaudhury, S., Gayen, R N , Dey, A.	CURRENT SCIENCE	2018			Presidency University

A new technique for time series forecasting by using symbiotic organisms search	Samui Pal, S., Samui, S., Kar, S.,	Neural Computing and Applications	28-Mar-19			Presidency University
Driven spin wave modes in XY ferromagnet: Nonequilibrium Phase Transition,	Acharyya M.	Phase Transitions Vol-91	Aug-18			Presidency University
Magnetisation reversal in Ising ferromagnet by thermal and field gradients,	Datta R., Acharyya M., Dhar A.	Heliyon Vol-4	Oct-18			Presidency University
Investigation on the Interaction of Rutin with Serum Albumins: Insights from Spectroscopic and Molecular Docking Techniques”,	Priti Sengupta, Pinky Saha Sardar, Pritam Roy, SwagataDasgupta, Adity Bose,	J. Photo -chem. Photobiol B., 183 (2018) 101-110 (Impact factor 4.07).	2018		15	
Encapsulation of Thymol in cyclodextrinnanocavities: A multi spectroscopic and theoretical study,	Adity Bose, P. Sengupta, U. Pal, S.Senapati, Md. Ahsan, S. Roy, U. Das, K. Sen	Spectro –chim Acta A, 208 (2019) 339. (Impact Factor 2.93)	2019		0	
Binding interactions of Quercetin and its Cu(II) complex with serum albumins: a spectroscopic overview’,	Prasenjit Mondal, Adity Bose	Bioimpacts	2019		0	
Calcium ion incorporated hydrous iron (III) oxide: synthesis, characterization, and property exploitation towards water remediation from arsenite and fluoride	A Ghosh, S Paul, S Bhattacharya, P Sasikumar, K Biswas, U.C Ghosh	Environmental Science and Pollution Research, 2019, 26, 4618 (Impact factor 2.95)	2019		0	

Anion-mediated bio-relevant catalytic activity of dinuclearnickel(ii) complexes derived from an end-off compartmental ligand	Tonmoy Chakraborty, Somali Mukherjee, Sanchari Dasgupta, Biplab Biswas and Debasis Das	Dalton Transactions 2019, 48, 2772 (impact factor 4.05)	2019		0	
LNMO-Graphite Cells Performance Enhancement by the Use of Acid Scavenging Separators	Y. Shilina, S. Maddukuri, Anjan Banerjee, B. Ziv, S. Luski, D. Aurbach, I. C. Halalay	ChemElectroChem, 2019, 6, 3690	2019		0	
. Multifunctional Separators: A Promising Approach for Improving the Durability and Performance of Li-Ion Batteries	A. Banerjee, B. Ziv, Y. Shilina, J. M. Ziegelbauer, H. Liu, K. J. Harris, G. Botton, G. R. Goward, S. Luski, D. Aurbach, I. C. Halalay	J. Electr -ochem. Soc., 2019, 166, A5369	2019		2	
The Effectiveness of Multifunctional Li-Ion Battery Separators Past Their Saturation with Transition Metal Ions	A. Banerjee, B. Ziv, S. Luski, D. Aurbach and I. C. Halalay	J. Electrochem. Soc., 2018, 165, A2096 (Impact factor 3.662 )	2018			
Covalent Grafting of BPIn functions on Carbon Nanotubes and Chan–Lam–Evans Post-Functionalization	Antonin Desmecht, Debobrata Sheet Claude Poleunis, Sophie Hermans, Olivier Riant	Chemistry-A-European Journal , 2018,25, 1436 (impact factor 5.16)	2018		1	
Aliphatic C–H Bond Halogenation by Iron(II)- $\alpha$ -Keto Acid Complexes and O <sub>2</sub> : Functional Mimicking of Nonheme Iron Halogenases	Rahul Dev Jana Debobrata Sheet, Sayanti Chatterjee, TapanKanti Paine	Inorganic Chemistry 2018, 57, 8769 (impact factor 4.85)	2018		1	

Oxidizing Ability of a Dioxygen-Activating Nonheme Iron (II)-Benzilate Complex Immobilized on Gold Nanoparticles	Debobrata Sheet, Abhijit Bera, Rahul Dev Jana, TapanKanti Paine	Inorganic Chemistry, 2019, 58, 4828 (impact factor 4.85)	2019			
. Carbon-Nanotube-appended PAMAM dendrimers bearing Iron(II) $\alpha$ -Keto acid complexes: Catalytic Non-Heme Oxygenase Models.	Debobrata Sheet, A. Bera, Y. Fu, A. Desmecht, O. Riant, S. Hermans	Chemistry - A European Journal, 2019, 25, 9191 (impact factor 5.16)	2019			
Formation of a Mixed Micelle in an Aqueous Mixture of a Surface Active Ionic Liquid and a Conventional Surfactant: Experiment and Modeling	S. Das, S. Ghosh, Bijan Das	Journal of Chemical and Engineering Data , 2018, 63, 3784, (impact factor 2.298)	2018			
Thermodynamic Properties of Aqueous Sodium Nitrate Solutions under Superambient Conditions	S. Pamanik, Bijan Das	Journal of Solution Chemistry, 2019, 48, 167 (Impact facror 1.039)	2019			
Ion-Solvation and Ion-Association Behavior of tetraphenyl phosphonium chloride, sodium tetraphenylborate and sodium chloride in polyethylene glycol+water mixtures at 298.15 K	B. Debnath, Bijan Das	Journal of Solution Chemistry, 2019, 48, 849. (Impact facror 1.039)	2019			

Photoluminescence of Graphene Oxide: Effect of pH, Surfactant and Polymer	Pyne, D. K.; Saha, P.; Halder, A.	. EPA News Letter, 2018, 94, 11	2018			
Tunable luminescence of graphene oxide-polyaniline nano-composite: Effect of an anionic surfactant	Saha, P; Pyne, D. K.; Dutta, P.; Halder, A.	Journal of Luminescence 2019, 206, 218 (impact factor 2.7)	2019			
Study of selective sensing of Hg <sup>2+</sup> ions by green synthesized silver nanoparticles suppressing the effect of Fe <sup>3+</sup> ions	S. Ghosh S. Maji, Avijit Mondal	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555,324 (impact factor 3.131)	2018		11	
Activated barrier crossing dynamics of a Janus particle carrying cargo	Tanwi Debnath, Pulak K. Ghosh	Physical Chemistry Chemical Physics, 2018, 20, 25069 (Impact factor 3.567)	2018		1	
Active microswimmers in a finite two dimensional trap: The role of hydrodynamic interaction	Tanwi Debnath, Yunyun Li, Pulak K. Ghosh, Fabio Marchesoni	. Journal of Chemical Physics, 2019, 150, 104102 (Impact factor 2.997)	2019			
Active diffusion limited reactions	Tanwni Debnath, Pulak K. Ghosh, Y. Li, Fabio Marchesoni, Franco Nori	Journal of Chemical Physics 2019, 150, 154902 (Impact factor 2.997)	2019		1	