



Dayananda Sagar
University Bengaluru

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Samshodhana Sagara

2018 - 2019



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Book of Research Abstracts

ಸಂಶೋಧನಾ ಸಾರಾಂಶದ ಪುಸ್ತಕ

Dedications

Founders who crafted our Institutions



Late Shri. R. Dayananda Sagar

Dayananda Sagar Institution is named in honour of its founder president Late Shri R Dayananda Sagar. He was a great, confident leader who saw no reason why, as an Indian, he could not provide education for all sections of society. Best known for his pivotal role in setting up the Mahatma Gandhi Vidya Peetha Education Trust (MGVP), Late Shri R Dayananda Sagar also played an important role in the education sector of the emerging India.

Late Smt. Chandramma Sagar

Wife of the founder, Late Smt Chandramma Sagar was a Doctor by profession - a Triple FRCS from London, Edinburgh and Glasgow. She was in the panel of Doctors for the President of India.



Editorial Committee

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 - Dr. Anil T John, Professor & Principal, College of Physiotherapy, School of Allied Health Sciences.
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From the Editorial Board

This Edition of '**Samshodhana Sagara 2018-19**' is dedicated to Late Barrister Shri R. Dayananda Sagar and his better half, Late Smt. Dr. Chandramma Sagar, triple FRCS from London, Edinburg and Glasgow, the founders of Mahatma Gandhi Vidya Peetha Trust, on the eve of Centenary Celebrations of Late Barrister Shri R. Dayananda Sagar. We take this opportunity to thank, Dr. D Hemachandra Sagar, the Chancellor and Dr. D Premachandra Sagar, Pro-Chancellor who have been very supportive in bringing out this Edition and approving the same. Our sincere thanks are due to Prof. A N N Murthy, our Hon. Vice Chancellor who insists on only quality publication without exception and his encouragement in every stage of bringing out this Edition. We also thank Prof. R. Janardhan and Prof. K. Muthuchelian, the Pro Vice Chancellors for their help in this initiative. We thank profusely Prof. Puttamadappa C, the Registrar, for his constant support in various initiatives taken up by the Research Cell.

It gives me immense gratification to release the 4th Edition of '**Samshodhana Sagara 2018-19**', the collection of research publications, during the Academic Year 2018-2019. We have attempted to include only such publications which are published in peer reviewed journals. Books and Book chapters published by the faculty members in International Publications are also made part of 'Samshodhana Sagara'. This collection also provides the list of Research projects which are funded by DST, SERB/DST, VGST and other funding agencies. There are 97 publications in International and National Journals, 34 Book Chapters. There are Six on-going Projects for the year.

I thank all my colleagues in the Editorial Board from various Departments, Colleges and Schools who have helped us in editing this collection and bringing out this Edition. We sincerely hope that more quality publications are accomplished by our faculty members and research scholars in the years ahead.

We will be thankful for any feedbacks and suggestions for improving the quality and look and feel of 'Samshodhana Sagara' in the future.

Dr. M K Banga,
Dean Research - Dayananda Sagar University.

For Editorial Board.

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**Department
of
Chemistry
SCHOOL OF ENGINEERING
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
CHJ-01	Bommaka M.K., Chaitanya Mannava M.K., Suresh K., Gunnam A., Nangia A.	Entacapone: Improving aqueous solubility, diffusion permeability, and cocrystal stability with theophylline	Crystal Growth and Design, ISSN: 15287483, DOI: 10.1021/acs.cgd.8b00921, 2018
CHJ-02	Adarakatti P.S., Mahanthappa M., Eranjaneya H., Siddaramanna A.	Fe ₂ V ₄ O ₁₃ Nanoparticles Based Electrochemical Sensor for the Simultaneous Determination of Guanine and Adenine at Nanomolar Concentration	Electroanalysis, ISSN: 10400397, DOI: 10.1002/elan.201800124, 2018
CHJ-03	Lakkepally S., Kalegowda Y., Ganganagappa N., Siddaramanna A.	A new and effective approach for Fe ₂ V ₄ O ₁₃ nanoparticles synthesis: Evaluation of electrochemical performance as cathode for lithium secondary batteries	Journal of Alloys and Compounds, ISSN: 9258388, DOI: 10.1016/j.jallcom.2017.12.096, 2018
CHJ-04	Lowrence R.C., Ramakrishnan A., Sundaramoorthy N.S., Shyam A., Mohan V., Subbarao H.M.V., Ulaganathan V., Raman T., Solomon A. , Nagarajan S.	Norfloxacin salts of carboxylic acids curtail planktonic and biofilm mode of growth in ESKAPE pathogens	Journal of Applied Microbiology, ISSN: 13645072, DOI: 10.1111/jam.13651, 2018
CHJ-05	Ns A.K., Ashoka S. , Malingappa P.	Nano zinc ferrite modified electrode as a novel electrochemical sensing platform in simultaneous measurement of trace level lead and cadmium	Journal of Environmental Chemical Engineering, ISSN: 22133437, DOI: 10.1016/j.jece.2018.10.041, 2018
CHJ-06	Adarakatti P.S., Gangaiah V.K., Banks C.E., Siddaramanna A.	One-pot synthesis of Mn ₃ O ₄ /graphitic carbon nanoparticles for simultaneous nanomolar detection of Pb (II), Cd (II) and Hg (II)	Journal of Materials Science, ISSN: 222461, DOI: 10.1007/s10853-017-1896-6, 2018
CHJ-07	Shivakumara J., Chikkahanumantharaya appa, Krishna R.H., Ashoka S. , Nagaraju G.	CdSiO ₃ :Eu ³⁺ nanophosphor: one pot synthesis and enhancement of orange-red emission through Li+ co-doping	Journal of Materials Science: Materials in Electronics, ISSN: 9574522, DOI: 10.1007/s10854-018-9419-z, 2018
CHJ-08	Arun Kumar N.S., Adarakatti P.S., Ashoka S. , Malingappa P.	CeO ₂ nanoparticle-modified electrode as a novel electrochemical interface in the quantification of Zn ²⁺ ions at trace level: Application to real sample analysis	Journal of Solid-State Electrochemistry, ISSN: 14328488, DOI: 10.1007/s10008-017-3872-0, 2018

ID	Author(s)	Title of the Paper	Publication Details
CHJ-09	Kamalakaran A.S.	Molecular Adducts of Isoniazid: Crystal Structure, Electronic Properties, and Hirshfeld Surface Analysis	Journal of Structural Chemistry, ISSN: 224766, DOI: 10.1134/S002247661807003X, 2018
CHJ-10	Lakkepally S., Kalegowda Y., Ramarao V., Hanumantharayappa E., Siddaramanna A.	Room temperature synthesis of amorphous Bi ₄ V ₂ O ₁₁ as cathode material for Li secondary batteries	Materials Research Express, ISSN: 20531591, DOI: 10.1088/2053-1591/aadb7c, 2018
CHJ-11	Adarakatti P.S., Gangaiah V., Siddaramanna A.	Mesoporous CeO ₂ nanoparticles modified Glassy carbon electrode for individual and simultaneous determination of Cu (II) and Hg (II): Application to environmental samples	Materials Science in Semiconductor Processing, ISSN: 13698001, DOI: 10.1016/j.mssp.2018.05.010, 2018
CHJ-12	Eranjaneya H., Adarakatti P.S., Siddaramanna A., Malingappa P., Chandrappa G.T.	Citric acid assisted synthesis of manganese tungstate nanoparticles for simultaneous electrochemical sensing of heavy metal ions	Materials Science in Semiconductor Processing, ISSN: 13698001, DOI: 10.1016/j.mssp.2018.06.020, 2018
CHJ-13	Shivakumara J., Chikkahanumantharayappa, Ashoka S. , Hari Krishna R., Vijayakumar G., Manjunatha C., Nagabhushana B.M., Nagaraju G.	Elimination of quenching defects by facile anion doping in CdSiO ₃ synthesized by green fuel assisted combustion method	Optik, ISSN: 304026, 10.1016/j.ijleo.2017.10.066, 2018
CHJ-14	Varhade S., Bhat Z.M., Thimmappa R., Devendrachari M.C., Kottaichamy A.R., Gautam M., Shafi S.P., Kalegowda Y., Thotiyl M.O.	A hybrid hydrazine redox flow battery with a reversible electron acceptor	Physical Chemistry Chemical Physics, ISSN: 14639076, DOI: 10.1039/c8cp03768j, 2018

**Department
Of
Mathematics
SCHOOL OF ENGINEERING
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
MATJ-01	Saha S., Bora S.N.	Trapped Modes in a Three-Layer Fluid	Journal of Marine Science and Application, ISSN: 16719433, DOI: 10.1007/s11804-018-0005-9, 2018

**Department
Of
Physics
SCHOOL OF ENGINEERING
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
PHYJ-01	Nandi A., Mandal S., Sreehari H., Radhika D. , Das S., Chattopadhyay I., Iyer N., Agrawal V.K., Aktar R.	Accretion flow dynamics during 1999 outburst of XTE J1859+226—modeling of broadband spectra and constraining the source mass	Astrophysics and Space Science, ISBN: 0004640X, DOI: 10.1007/s10509-018-3314-1, 2018
PHYJ-02	Radhika D. , Sreehari H., Nandi A., Iyer N., Mandal S.	Broad-band spectral evolution and temporal variability of IGR J17091-3624 during its 2016 outburst: SWIFT and NuSTAR results	Astrophysics and Space Science, ISBN: 0004640X, DOI: 10.1007/s10509-018-3411-1, 2018
PHYJ-03	Sreehari H., Nandi A., Radhika D. , Iyer N., Mandal S.	Observational aspects of outbursting black hole sources: Evolution of spectro-temporal features and x-ray variability	Journal of Astrophysics and Astronomy, ISBN: 2506335, DOI: 10.1007/s12036-018-9510-0, 2018
PHYJ-04	Ray P., Radhakrishna V., Triloki P., Baishali G. , Rajanna K.	Influence of substrate heating on optical, morphological and photoemission properties of CsI thin films for imaging application	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, ISBN: 1689002, DOI: 10.1016/j.nima.2018.08.011, 2018
PHYJ-05	Ray P., Baishali G. , Radhakrishna V., Rajanna K.	Spatial resolution optimization in a THGEM-based UV photon detector	Radiation Detection Technology and Methods, ISBN: 25099930, DOI: 10.1007/s41605-018-0070-2, 2018

BOOK CHAPTERS

ID	Author(s)	Title of the Paper	Publication Details
PHYB-01	Shruthi G., Anshika, Baishali G. , Nella N., Radhakrishna V., Rajanna K.	Investigation on Reduced Graphene Oxide for Radiation Sensing Application	17th IEEE SENSORS Conference, SENSORS 2018, ISBN: 9781538647073, 2018
PHYB-02	Ray P., Baishali G. , Radhakrishna V., Rajanna K.	Electroluminescence Yield in THGEM based UV Photon Detectors	2018 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2018 – Proceedings, ISBN: 9781538684948, 2018

**Department
Of
Computer Science & Engineering
School of Engineering
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
CSEIJ-01	Kumar Abhishek Gaurav, Ladly Patel, Savita Vijay	Centralized Large Data Set Storage System with File Classification Technique	IJCEM International Journal of Computational Engineering & Management, ISSN: 2230-7893 (ISSN), 2017
CSEIJ-02	SukumaramMahesh T RMouleeshwaran S K	Analysis on Moving Object Detection	International Journal for Science and Advance Research in Technology-IJSART, ISSN: 2395-1052 (2017)
CSEIJ-03	K. Dalawai; T.M. Rajesh	A Moving Object Recognition using Video Analytics	International Journal for Scientific Research and Development- IJSRD, 2321-0613 (ISSN)
CSEIJ-04	Ayyavaraiah M., Venkateswarlu B.	A Survey on Guaranteed Availability of Cloud Data with Efficient Cost	International Journal for Scientific Research and Development- IJSRD, 2395-1052 (ISSN), 2017
CSEIJ-05	B. Jasma ; H.L. Chandrakala	Analysis of Human Emotions Using Computational Geometry for Nose and Lips Facial Features	International journal of Advances in Electronics and Computer Science, 2394-2835 (ISSN), 2017
CSEIJ-06	Ayyavaraiah M., Venkateswarlu B.	A Survey on Moving Object Recognition using Video Analytics	International Journal of Engineering Research & Technology-IJERT, 2278-0181 (ISSN), 2017
CSEIJ-07	G. Kumar Abhishek; . Viveka; T.M. Rajesh; S.G. Shaila	Large Scale Data Storage and Retrieval System using Keywords for E-governance	International Journal on Future Revolution in Computer Science & Communication Engineering, 2454-4248 (ISSN), 2017

BOOK CHAPTERS

ID	Author(s)	Title of the Paper	Publication Details
CSEB-01	Dr. Mallanagou da Patil	Dynamic Error Control Scheme based on Channel Characteristics in Wireless Sensor Networks	2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT ISBN:978-1-5090-3704-9, 2018
CSEB-02	Rashmi Mothkur	Machine Learning will Transfigure Medical Sector: A Survey	2018 International Conference on Current Trends towards Converging Technologies (ICCTCT), ISBN: 978-1-5386-3702-9, 2018
CSEB-03	Vijay S., Banga M.K.	Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST	1st International Conference on Ubiquitous Communications and Network Computing, UBICT 2017, ISBN: 9783319734224, 2018
CSEB-04	Ambika B.J., Naga Maruthi Kumari N., Banga M.K.	A survey on the path restoration in MPLS networks	Lecture Notes in Networks and Systems, ISSN: 23673370, 2018
CSEB-05	Shaila S.G., Vadivel A.	Textual and Visual Information Retrieval using Query Refinement and Pattern Analysis	9789811325595; 9789811325588(ISBN), Springer Singapore, 2018
CSEB-06	George A.M., George V.I., George M.A.	IOT based Smart Traffic Light Control System	2018 International Conference on Control, Power, Communication and Computing Technologies, ICCPCCT 2018), ISSN: 9781538607961, 20178
CSEB-07	Shaila S.G., Avani V.S., Rashmi, Vadivel A.	Finger vein and finger texture based biometric approach for personal identification	2017 International Conference on Inventive Computing and Informatics, ICICI 2017, ISSN: 9781538640319, 2018
CSEB-08	Shaila S.G., Prasanna M.S.M., Niveditha L., Vadivel A.	Support automation connectivity system for big data applications	2017 International Conference on Inventive Computing and Informatics, ICICI 2017, issn: 9781538640319, 2018
CSEB-09	Bhadra J., Banga M.K., Vinayaka Murthy M.	Securing data using elliptic curve cryptography and least significant bit steganography	2017 International Conference on Smart Technology for Smart Nation, SmartTechCon 2017, ISBN: 9781538605684, 2018

**Department
Of
Electronics and Communication Engineering
School of Engineering
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
ECEJ-01	P. Rajeswari; C. Afsana; C. Theodore	An Investigation on Basic Concepts of Particle Swarm Optimization algorithm for VLSI Design	International Journal of Engineering and Techniques, ISBN: 2395-1303, 2018
ECEJ-02	B. Aashna; A. Aashruti; R. Halshet. Asha; V. Payal	Microcontroller Based Automated Garbage Level Detection and Segregation	International Journal of Engineering Research in Electronics and Communication Engineering, ISBN: 2394-6849, 2018
ECEJ-03	S. Mohammed; F. Rida; V. Payal	Internet of Things (IoT) based Emergency Reporting and Management System using Ubidots and Firebase	International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), 2394-6849 (ISSN), 2018
ECEJ-04	S. Heena; M.N. Karthik; V. Payal	Microbial Fuel Cell A Green Approach for The Utilization of Waste for The Generation of Bioelectricity	International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), 2394-6849 (ISSN), 2018
ECEJ-05	S. Anita; K. Divya; V. Payal	Water Monitoring System Using ARDUINO	International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), 2394-6849 (ISSN), 2018
ECEJ-06	Nanjundegowda R., Meshram V.A.	Arrhythmia detection based on Hybrid features of T-wave in Electrocardiogram	International Journal of Intelligent Engineering and Systems, ISBN: 2185310X, 2018
ECEJ-07	Mohanbabu A., Mohankumar N., Godwin Raj D., Sarkar P., Saha S.K.	Device characteristics of enhancement mode double heterostructure DH-HEMT with boron-doped GaN gate cap layer for full-bridge inverter circuit	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, ISBN: 8943370, 2018
ECEJ-08	Narender K., Puttamadappa C.	HBCCS technique for optimal resource allocation in OFDMA-LTE system to macro-FEMTO cell mitigate interference	Journal of Advanced Research in Dynamical and Control Systems, ISBN: 1943023X, 2018

ID	Author(s)	Title of the Paper	Publication Details
ECEJ-09	A. Kutubuddin; C. Ozsen; P. SampadKumar; V. Payal	Spatiotemporal variability of water vapor over Turkey from GNSS observations during 2009â€“2017 and predictability of ERAInterim and ARMA model	The Journal of Global Positioning Systems, 1446-3164(ISSN), 2018
ECEJ-10	K Ezhilarasan, D. Jayadevappa, Pushpa Mala S	An Efficient FPGA Implementation of Fast Lifting Wavelet Transform for Lossless Image Compression	International Journal of Pure and Applied mathematics, ISSN: 1314-3395, 2018
ECEJ-11	K Ezhilarasan, D. Jayadevappa, Pushpa Mala S	A Survey on Error Free Image Compression for Various Coding and Transform Techniques	International Journal of Pure and Applied mathematics, ISSN: 1314-3395, 2018
ECEJ-12	Pushpa Mala S , K Ezhilarasan	FPGA Implementation of Sorting Network for Median Filter Using pipelining processing	Journal of Advanced Research in Dynamical and Control Systems, 2018
ECEJ-13	Pushpa Mala S , Bharath S P, Anjum, Aniket Kumar, Debolina Kundu	Performance Evaluation of Ring Counter using Gated Clock	International Journal of Engineering & Technology, 2018

BOOK CHAPTER

ID	Author(s)	Title of the Paper	Publication Details
ECEB-01	Suresh Kumar K	Modified Electrodes for Sensing	Electrochemistry Volume 15, ISBN: 978-1-78801-583-7, 2018
ECEB-02	R. Reshma; P.V. Pushpa	Air Quality Prediction in Smart Cities: A Fuzzy-logic based Approach	International Conference on Computational Techniques, Electronics and Mechanical Systems (CTEMS), ISSN: 978-1-5386-7710-0, 2018
ECEB-03	Prema S., Pramod T.C.	Key Establishment Scheme for Intra and Inter Cluster Communication in WSN	2nd International Conference on Computing Methodologies and Communication, ICCMC 2018, ISSN: 9781538634523, 2018
ECEB-04	Behera N., Sinha S., Gupta R., Geoncy A., Dimitrova N., Mazher J.	Analysis of Gene Expression Data by Evolutionary Clustering Algorithm	16th International Conference on Information Technology, ICIT 2017, ISSN: 9781538629246, 2018
ECEB-05	Satyananda V., Narayanaswamy K.V., Karibasappa K.	An embedded system-based solution for exudate extraction	2017 International Conference on Robotics, Automation and Sciences, ICORAS 2017, ISBN: 9781538619087, 2018
ECEB-06	Rajeswari P., Chandra S.T.	A survey on an optimal solution for VLSI circuit partitioning in physical design using DPSO & DFFA algorithms	2017 International Conference on Intelligent Sustainable Systems, ICISS 2017, ISBN:

ID	Author(s)	Title of the Paper	Publication Details
			9781538619599, 2018

**Department
Of
Mechanical Engineering
School of Engineering
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
MEJ-01	Tambrallimath V., Keshavamurthy R., Saravanabavan D.	Thermal conductivity of copper filled polymer composites synthesized by FDM process	International Journal of Mechanical and Production Engineering Research and Development, ISBN: 22496890, 2018
MEJ-02	V S.C., Dumpala R., S A.K., VV K., B R.S.	Influence of heat treatment on the machinability and corrosion behavior of AZ91 Mg alloy	Journal of Magnesium and Alloys, ISBN: 22139567, 2018

BOOK CHAPTER

ID	Author(s)	Title of the Chapter	Publication Details
MEBC-01	Ravitej Y.P. , Swaroop V., Ramesh S., Adarsha H., Veerachari, Nischith	Finite element analysis of mild steel - Rubber sandwich composite material	International Conference on Advances in Manufacturing, Materials and Energy Engineering, IConMMEE 2018, ISSN: 17578981, 2018

**Department
Of
Aerospace Engineering
School of Engineering
JOURNAL PUBLICATIONS**

ID	Author(s)	Title of the Paper	Publication Details
AEJ-01	G.K. Suryanarayana ; M. Bikshapati; Y. Gireesh; K.S. Suresh; Y.D.B. Sing; N. Buddhadeb; N. Karthik; H. Srinivasan	Mass-flow simulation in air-intake models at subsonic Mach numbers using diffuser of wind tunnel as passive ejector	Journal of Aerospace Sciences and Technologies, 0972-950X (ISSN), 2018
AEJ-02	G.K. Suryanarayana ; K. Rajan; A.E. Sivaramakrishnan; V.R. Ganesan	Pressure fluctuations in the base of a typical re-entry module	Journal of Aerospace Sciences and Technologies, 0972-950X (ISSN), 2018

College of Biological Sciences
SCHOOL OF BASIC AND APPLIED SCIENCES
JOURNAL PUBLICATIONS

ID	Author(s)	Title of the Paper	Publication Details
BIOJ-01	Lincoln L., More S.S.	Purification and biochemical characterization of an extracellular β -d-fructofuranosidase from <i>Aspergillus</i> sp.	3 Biotech, ISBN: 2190572X, DOI: 10.1007/s13205-018-1109-2, 2018
BIOJ-02	Vasudev S., More S.S., Annappa G.S., More V.S.	Anti-snake venom potential of <i>Clerodendrum serratum</i> extracts on <i>Bungarus caeruleus</i> and <i>Daboia russelii</i> venom	Bangladesh Journal of Pharmacology, ISBN: 1991007X, DOI: 10.3329/bjp.v13i2.36597, 2018
BIOJ-03	Maiti A.K., Spoorthi B.C., Saha N.C., Panigrahi A.K.	Mitigating peroxy-nitrite mediated mitochondrial dysfunction in aged rat brain by mitochondria-targeted antioxidant MitoQ	Biogerontology, ISBN: 13895729, DOI: 10.1007/s10522-018-9756-6, 2018
BIOJ-04	Kempegowda P.K., Zameer F., Murari S.K.	Delineating antidiabetic proficiency of catechin from <i>withania somnifera</i> and its inhibitory action on dipeptidyl peptidase-4 (Dpp-4).	Biomedical Research (India), ISBN: 0970938X, DOI: 10.4066/biomedicalresearch.29-18-922, 2018
BIOJ-05	Kempahanumakkagari S., Vellingiri K., Deep A., Kwon E.E., Bolan N., Kim K.-H.	Metal-organic framework composites as electrocatalysts for electrochemical sensing applications	Coordination Chemistry Reviews, ISBN: 108545, DOI: 10.1016/j.ccr.2017.11.028, 2018
BIOJ-06	Yadav D.K., Shrestha S., Lillycrop K.A., Joglekar C.V., Pan H., Holbrook J.D., Fall C.H.D., Yajnik C.S., Chandak G.R.	Vitamin B12 supplementation influences methylation of genes associated with Type 2 diabetes and its intermediate traits	Epigenomics, ISBN: 17501911, DOI: 10.2217/epi-2017-0102, 2018
BIOJ-07	Yadav D.K., Shrestha S., Dadhwal G., Chandak G.R.	Identification and characterization of cis-regulatory elements 'insulator and repressor' in PPAR δ gene	Epigenomics, ISBN: 17501911, DOI: 10.2217/epi-2017-0139, 2018
BIOJ-08	Tewari R., Das Mitra S., Das S., Jadhao S., Mishra G., Ganaie F., Shome R., Rahman H., Shome B.R.	Draft genome sequence of multidrug-resistant <i>Escherichia coli</i> NIVEDI-P44, isolated from a chicken fecal sample in Northeast India	Genome Announcements, ISBN: 21698287, DOI: 10.1128/genomeA.00205-18, 2018
BIOJ-09	James P., Sajjadi S., Tomar A.S., Saffari A., Fall C.H.D., Prentice A.M., Shrestha S., Issarapu P., Yadav D.K., Kaur	Candidate genes linking maternal nutrient exposure to offspring health via DNA methylation: A review of existing evidence in	International Journal of Epidemiology, ISBN: 3005771, DOI: 10.1093/ije/dyy153,

	L., Lillycrop K., Silver M., Chandak G.R.	humans with specific focus on one-carbon metabolism	2018
BIOJ-10	Lincoln L., More S.S.	Comparative evaluation of extracellular β -d-fructofuranosidase in submerged and solid-state fermentation produced by newly identified <i>Bacillus subtilis</i> strain	Journal of Applied Microbiology, ISBN: 13645072, DOI: 10.1111/jam.13881, 2018
BIOJ-11	Kempahanumakkagari S.K., Adarakatti P.S., Malingappa P.	Covalent modification of graphitic carbon through in-situ diazonium ion formation and its reduction: A robust pellet electrode as a novel electrochemical interface for divalent lead quantification	Journal of Environmental Chemical Engineering, ISBN: 22133437, DOI: 10.1016/j.jece.2018.04.006
BIOJ-12	Lincoln L., More S.S., Reddy S.V.	Purification and biochemical characterization of β -d-fructofuranosidase from <i>Bacillus subtilis</i> LYN12	Journal of Food Biochemistry, ISBN: 1458884, DOI: 10.1111/jfbc.12592, 2018
BIOJ-13	Das J., Dey P., Chakraborty T., Saleem K., Nagendra R., Banerjee P.	Utilization of marine industry waste derived collagen hydrolysate as peroxide inhibition agents in lipid-based food	Journal of Food Processing and Preservation, ISBN: 1458892, DOI: 10.1111/jfpp.13430, 2018
BIOJ-14	Bykov D.A., Doskolovich L.L., Morozov A.A., Podlipnov V.V., Bezus E.A., Verma P., Soifer V.A.	First-order optical spatial differentiator based on a guided-mode resonant grating	Optics Express, ISBN: 10944087, DOI: 10.1364/OE.26.010997, 2018
BIOJ-15	Muddapur, U. M., Shiledar, A. A., Bhope, A., Joshi, R. K., & More, S. S.	Production of Biofuel from Paper Sludge By Simultaneous Saccharification And Fermentation.	Research Journal of Pharmaceutical, Biological and Chemical Sciences, ISBN: 0975-8585, 2018
BIOJ-16	Vinay, K.N., Lakshmi, V.V., Satyanarayan, N.D., More, S. S., & Vineetha	In-vitro Screening of Acetylcholinesterase activity and Antioxidant activity of different crude extracts from <i>Alpinia purpurata</i> : A new source for management of Alzheimer's disease	International Journal of Green and Herbal Chemistry, ISBN: 2278-3229, 2018
BIOJ-17	Spoorthi, B. C., Gautham, S. A., More, S. S., & Maiti, A. K.	Nutraceuticals: Potential therapeutic agents for the treatment and prevention of cardiovascular diseases	Journal of Pharmacy Research, ISBN: 0974-6943, 2018
BIOJ-18	Pachauri, P., More, S., Aranganathan, V., Sullia, S. B., & Deshmukh, S.	Kinetic Study and Characterization of Cellulase Enzyme from Isolated <i>Aspergillus niger</i> subsp. <i>awamori</i> for Cellulosic Biofuels	Journal of Scientific and Industrial Research, ISBN: 0975-1084, 2018
BIOJ-	Kempahanumakkagari, S.,	Biomolecule-embedded metal-	Biotechnology

19	Kumar, V., Samaddar, P., Kumar, P., Ramakrishnappa, T., & Kim, K. H.	organic frameworks as an innovative sensing platform	Advances, 1873-1899, 2018
BIOJ-20	Venkatesh, S. K., Sudheer, K. M. V., & Krishna, M. T.	Lipid profile analysis of type 2 diabetic patients in Bengaluru population, India	International Journal of Research in Medical Sciences, ISBN: 2320-6012, 2018
BIOJ-21	Tewari, R., Mitra, S. D., Ganaie, F., Venugopal, N., Das, S., Shome, R., ... & Shome, B. R.	Prevalence of extended spectrum beta lactamase, AmpC b lactamase and metallo beta lactamase mediated resistance in Escherichia coli from diagnostic and tertiary healthcare centers in south Bangalore, India	International Journal of Research in Medical Sciences, ISBN: 2320-6012, 2018
BIOJ-22	Nagendra, R., Sumeet, C., Mathur, M., Kiran, K., & Banerjee, P.	Use of Threadfin Bream derived collagen hydrolysate as shelf life enhancers	International Journal of Engineering & Scientific Research, ISBN: 2347-6532, 2018
BIOJ-23	Bajaj, M., Chakravarty, S., Hemanth, V., Nair, M., & Banerjee, P.	Biofunctional food additives – emulsifiers and humectants isolated from Catla skin and bladder collagen	International Journal of Engineering & Scientific Research, ISBN: 2347-6532, 2018
BIOJ-24	Shome, B. R., Natesan, K., Mitra, S. D., Venugopal, N., Bhuvana, M. A. N. I., Ganaie, F., ... & Rahman, H.	Development of Simplex-PCR Assays for Accurate Identification of Nine Staphylococcal Species at Genus and Species Levels	Journal of Microbiology and Infectious Diseases, ISBN: 2146-9369, 2018
BIOJ-25	Kumar, K. K., Singh, S., Chakraborty, S., Das, J., Bajaj, M., Hemanth, V., ... & Banerjee, P.	Recycling fish skin for utilization in food industry as an effective emulsifier and foam stabilizing agent	Turkish Journal of Biochemistry, ISBN: 1303-829X, 2018
BIOJ-26	Kempegowda, P. K., Zameer, F., Narasimashetty, C. K., Kollur, S. P., & Murari, S. K.	Inhibitory potency of Withania somnifera extracts against DPP-4: an in vitro evaluation	African Journal of Traditional, Complementary and Alternative Medicines, ISBN: 0189-6016, 2018
BIOJ-27	Praveen Kumar, K., Zameer, F., & Kumar Murari, S.	Structural-functional insights and antidiabetic studies on dipeptidyl peptidase-4 (DPP-4) binding to catechin from Withania somnifera	Biomedical Research, ISBN: 0970-938X, 2018

BOOK CHAPTERS

BIOB-01	More S.S. , Swamy R., Mohan N., Navyashree M., Janardhan B., Niyonzima F.N.	Purification and Characterization of Anti-cancer l-Glutaminase of <i>Bacillus cereus</i> Strain LC13	Proceedings of the National Academy of Sciences India Section B - Biological Sciences, ISSN: 3698211, 2018
BIOB-02	Pavithra H.S., Anantha Prasad M.G.	Study on Microstructure and Mechanical Properties of Al/SiO ₂ /C hybrid metal matrix composite, with the Influence of Chills	7th International Conference of Materials Processing and Characterization, ICMPC 2017, ISBN: 22147853, 2018
BIOB-03	Archana T., Anand Kumar S., Elangovan R.R., Rammohan Y.S., Dumpala R., Ratna Sunil B., Kumar R.K.	Fracture toughness and fatigue behavior of spider silk and S-glass epoxy composites: An FEM approach	ISBN: 22147853, 2018
BIOB-04	Methods in molecular biology	Computational drug discovery and design	methods in molecular biology, ISSN: 1493977555, 2018

College of Pharmaceutical Sciences
SCHOOL OF HEALTH SCIENCES
JOURNAL PUBLICATIONS

ID	Author(s)	Title of the Paper	Publication Details
PHSJ-01	Anita Kurup, Iswar Hazarika, V. Murugan, Kalpana Divakar and Geetha K.M.	SYNTHESIS OF NOVEL 10- [3'- (N-SUBSTITUTED BUTYL)-3-CHLORO-4-FLUORO]-ACRIDONES TO TARGET HEPATOCELLULAR CARCINOMA	European Journal of Pharmaceutical and Medical Research, ISSN: 2394-3211, 2018
PHSJ-02	Shaik Sadik, Geetha K. M., Sridhara Murthy N. B. and Vasia	Anti-inflammatory activity of syzygium cerasoideum leaf extract by carrageenan induced paw oedema in albino rats	World Journal of Pharmacy and Pharmaceutical Sciences, ISSN: 2278-4367, 2018
PHSJ-03	Kalpana Divekar, Murugan Vedigounder, Anita Kurup and Rama Sharma	Synthesis and characterization of some new oxadiazole derivatives as anticonvulsant agents	European Journal of Pharmaceutical and Medical Research, ISSN: 2394-3211, 2018
PHSJ-04	K.M. Geetha; V. Murugan; K. Pavan; B. Wilson	Antiepileptic activity of Viscum articulatum Burm and its isolated bioactive compound in experimentally induced convulsions in rats and mice	European Journal of Biomedical and Pharmaceutical Sciences, ISSN 2349-8870, 2018
PHSJ-05	B. Wilson; S.R.B. Priyadarshini; K.M. Geetha; V. Murugan	Formulation of albumin nanoparticles containing an anticancer drug oxaliplatin	European journal of biomedical and pharmaceutical sciences, ISSN: 2349-8870, 2018
PHSJ-06	R. Aarathi; B. Sunethri; K.M. Geetha; S.S. Rani; P. Prabej; F. Jaferi	A prospective study on drug utilization, cost impact and gastric bleeding associated with anticoagulant therapy at cardiology department in a tertiary care hospital	International journal of innovative science and research technology, ISSN: 2456-2165, 2018
PHSJ-07	M. Mohan; V. Murugan; K.M. Geetha; M. Kumar. Kataria	Bis-[2-(Chloroethyl) Amino] Acetamido-4-Substituted Phenyl Thiazole Derivatives as Possible Antioxidant and Alky-lating Anticancer Agents	International Journal of Pharmaceutics and Drug Analysis, ISSN: 2348-8948, 2018

PHSJ-08	D. Manjula; L. Jenita. Josephine; K.B. Premakumari; B. Shanaz	Formulation and evaluation of flaxseed hair gel: a natural hair tamer.	International Journal of Research in Pharmacy and Chemistry, ISSN 2231-2781, 2018
PHSJ-09	A. Nahid; P. Ramakrishna; N. Shobha	Rational Use of Antibiotics and Monitoring of Drug Interactions in Patients with Respiratory Tract Infection	Journal of Pharmacy Practice and Community Medicine, 2157-7064 (ISSN), 2018
PHSJ-10	I. Sofiqul; V. Murugan; K.B. Premakumari; N. Shabbhag	Development and Validation of a Liquid Chromatographic method for the Quantification of Related Compounds in Cyclophosphamide.	Pharmaceutica Analytica Acta, 24553255 (ISSN), 2018
PHSJ-11	K.R. Sushma; D. Kalpana; A.R. Mahesh	Selectivity of Plant and Microbial Mediated Reduction of Ketones	Scholars Academic Journal of Pharmacy (SAJP), 2153-2435 (ISSN), 2018
PHSJ-12	K.B. Premakumari; M.S. Sandhyavali; V. Murugan; B. Shanaz	Chemometrics assisted simultaneous Spectrophotometric determination of Alogliptin and Metformin in Pharmaceutical dosage form.	World Journal of Pharmaceutical Research, ISSN 2347-9531 (Print), 2018
PHSJ-13	S. Sadik; K.M. Geetha; N.B. Sridharamurthy; Vasia	Anti-inflammatory activity of syzygium cerasoideum leaf extract by carrageenan induced paw oedema in albino rats	World Journal of Pharmacy and Pharmaceutical Sciences, 2277â€“7105(ISSN), 2018
PHSJ-14	attimard. Sunil; S. Rekha; S. Chandrashekhara; sambrekar. Sudheer	Isolation, identification and characterization of endophytic fungi from moringa oleifera for the anti microbial activities	World Journal of Pharmacy and Pharmaceutical Sciences, ISSN: 2278-4357, 2018
PHSJ-15	L.Jenita. Josephine; D. Manjula; B. Shanaz; S. Zahid; B. Wilson	Investigation of naproxen compression coated tablets using polysaccharides as carriers for oral based site-specific delivery to colon	World Journal of Pharmacy and Pharmaceutical Sciences, ISSN 2278â€“4357, 2018
PHSJ-16	D. Kalpana; R. Eshwar; S.R. Brahman Priyadarshini	Microbial process for the synthesis of Glucuronoides of Atrovastatin and Simvastatin	World Journal Of phrmacy and Pharmaceutical sciences, ISSN 2278-4357, 2018
PHSJ-17	A. Nahid; P. Ramakrishna; N. Shobha	Rational Use of Antibiotics and Monitoring of Drug Interactions in Patients with Respiratory Tract Infection	Journal of Pharmacy Practice and Community Medicine, ISSN: 2278-4357, 2018

Book & Book Chapters

PHSB-01	Shanaz Banu	Pharmacognostical studies and isolation of an alkaloid from <i>Barleria cristata</i> Linn roots	3rd International Conference on Academic and Industrial Innovations: Transitions in Pharmaceutical, Medical and Biosciences, Kala Academy, Panjim, Goa, India, 2018
PHSB-02	Dr.K.B. Premakumari	RP-UHPLC for the Simultaneous estimation of Paracetamol and Tolperisone in combined dosage form	International Conference on Drug Development and Clinical Research- Current Scenario and Opportunities, 2018
PHSB-03	Dr. Manjula D	Formulation and Evaluation of flax seed hair gel: a natural hair tamer	National Conference on Current Trends in Bioavailability and Bioequivalence studies, 2018
PHSB-04	Ms. Rekha S	Inhibitors of α - Amylase By 5-(Substituted Benzylidene) Thiazolidin-4-One- A possibility to Treat Diabetes Mellitus Type II	Advances in Drug discovery and Development, 2018
PHSB-05	Ms. Rekha S	Novel substituted Derivatives as Anti-diabetic Agents	Innovations in Drug Discovery and Drug Delivery, 2018
PHSB-06	Dr. J Josephine Leno Jenita	Development, evaluation and targeting of stavudine loaded serum albumin polymer based nanocarriers to HIV reservoirs.	INNOPHARM3, 3rd International conference on 'Academic and Industrial Innovations: Transitions in Pharmaceutical, Medical and Biosciences, Innovare Academic Sciences and Paramita Health Care Society and Society for Ethnopharmacology, 2018
PHSB-07	Dr.M. Gnana Ruba Priya	Design, Synthesis of 4-(3 H) - Quinazolinone derivatives and Pharmacological evaluation of DMBA induced breast cancer in rats	National Seminar on Current Trends in Bioavailability and Bioequivalence Studies, 2018
PHSB-08	Dr. B. Wilson	Formulation and in vitro evaluation of albumin nanoparticles of paclitaxel	Society for the Study of Xenobiotics, India, 2018
PHSB-09	Dr. Geetha KM	Invitro screening of soluble hydrolase inhibition in traditionally used Indian medicinal herbs having antiinflammatory activity	Society for the Study of Xenobiotics, India, 2018

College of Physiotherapy
SCHOOL OF HEALTH SCIENCES
JOURNAL PUBLICATIONS

ID	Author(s)	Title of the Paper	Publication Details
PHTJ-01	S. Mainali; K. Swethankh; A.T. John	Significance of Qangle as a prognostic outcome measure for subjects with spastic diplegia	Indian Journal of Cerebral Palsy, ISSN: 2395-4264, 2018
PHTJ-02	R. Kumar; A.T. John; T.U. Jimshad	EFFECT OF FOAM ROLLING FOLLOWED BY CRYOTHERAPY VERSUS CRYOTHERAPY FOLLOWED BY FOAM ROLLING ON PAIN AND RANGE OF MOTION FOR DELAYED ONSET MUSCLE SORENESS IN AMATEUR BODY BUILDERS A COMPARATIVE STUDY	International Journal of Creative Research Thoughts, ISSN: 2320-2882, 2018
PHTJ-03	G.C. Rashmi; K.N. Srihari Sharma; K.C. Vinod Kumar	EFFECT OF LOW-INTENSITY PLYOMETRICS ALONG WITH CORE STABILITY TRAINING TO IMPROVE LONG JUMP DISTANCE IN HIGH SCHOOL AMATEUR LONG JUMP PLAYERS	International Journal of Creative Research Thoughts, ISSN: 2320-2882, 2018
PHTJ-04	R. Harini; K.C. Vinod Kumar; A.T. John	INTER TESTER AND INTRA TESTER RELIABILITY OF A SELF-DESIGNED PELVIC INCLINOMETER IN ASYMPTOMATIC POPULATION: A PILOT STUDY	International Journal of Creative Research Thoughts, ISSN: 2320-2882, 2018

BOOK / BOOK CHAPTERS

ID	Author(s)	Title of the Paper	Publication Details
PHTB-01	Sreehari, H; Nandi, A; Radhika, D; Iyer, N; Mandal, S	Observational aspects of outbursting black hole sources: Evolution of spectro-temporal features and X-ray variability	JOURNAL OF ASTROPHYSICS AND ASTRONOMY, 3rd Conference on REcent Trends in the Study of Compact Objects - Theory and Observation (RETCO), ISSN: 0250-6335, 2018
PHTB-02	K. Khushboo Singh; T.U. Jimshad; A.T. John	Rehabilitation of Neurogenic Overactive Bladder	LAMBERT Academic Publishing (Germany), ISBN: 978-620-2-07304-2, 2018

SCHOOL OF COMMERCE AND MANAGEMENT JOURNAL PUBLICATIONS

ID	Author(s)	Title of the Paper	Publication Details
CMSJ-01	N.A. Padmalatha; P. S	A STUDY OF IMPACT OF SALES PROMOTIONAL ACTIVITIES WITH REFERENCE TO THE GATE ACADEMY	Ahead- International Journal of Recent Research Review, ISSN: 2456-205X, 2018
CMSJ-02	N.A. Padmalatha; R. Teja Velluru	A STUDY ON “HUMAN RESOURCE PROCESS ATTRIBUTION ANALYSIS: A CASE STUDY OF AN ITSERVICES ORGANIZATION IN BENGALURU”	International Journal of Management and Social Science Research Review, ISSN: 2349-6746, 2018
CMSJ-03	Natesh T.N., Shobha Rani N.	Customer puzzled behavioral analysis - A step towards valuing customer’s interests	International Journal of Mechanical Engineering and Technology, ISSN: 9766340, 2018
CMSJ-04	V. Kumar; J. Diana; A. Ghoshal	HISTORICAL & CONTEMPORARY PERSPECTIVES OF DEMONETIZATION-IMPACT ON ALTERNATIVE PAYMENT AVENUES	ISBR MANAGEMENT JOURNAL, ISSN: 2456-9062, 2018
CMSJ-05	Dr. Roohi Kursheed Khans. S	SCHOOL TEACHER’S ORGANIZATIONAL COMMITMENT - A COMPARATIVE STUDY	International Journal of Applied & Pure Mathematics, ISSN: 1314-3395 (on-line version), 2018

BOOK / BOOK CHAPTERS

ID	Author(s)	Title of the Paper	Publication Details
CMSB-01	Dr. Anupama Goshal	Micro finance-An Inclusive economic growth model for sustainable Humanitarian Development	Educational Development and Social Welfare, ISBN: 978-1-387-52255-2, 2018

Funded Research Projects

SL. NO	Project Title	Funding Agency	Principal Investigators	Project Duration	Total (Estimated in lakhs)	Dept. / School
1	Telltale of Galactic Black hole X-ray binaries from AstroSat archival observations.	ISRO-SSPO	Dr. Radhika D.	2018-19 (3 years)	24.00	SOE-PHYSICS
4	Design and development of a miniaturized low-cost graphene-based radiation detector for space applications	ISRO-RESPOND	Dr. Baishali Garai	2017-18 (3 Years)	18.94	
6	Functionalized meso/microporous nanostructured metal oxides sensor for screening dispersed heavy metal ions: One-shot disposable sensor strips.	DST-SERB	Dr. Ashoka S	2017-18 (3 Years)	26.45	SOE-CHEMISTRY
4	Telltale of Galactic Black hole X-ray binaries from AstroSat archival observations.	ISRO-SSPO	Dr. Radhika D.	2016-17 (3 Years)	30.98	
5	Separation of Biobutanol via scalable approach of pervaporation: To be a "Viable Biofuel for Future"	Science and Engineering Research Board (SERB)	Dr. Santosh Choudhari/ Dr. Nataraj Sanna Kotrappanavar, Jain University	2018-19 (3 Years)	40.96	SBAS
6	Immobilized microbial consortium for pesticide bioremediation in ginger cultivated soils of Karnataka	Vision Group on Science and Technology - KFIST Level (1)	Dr. Shobha K. Jayanna	2017-18 (2 Years)	20.00	
Total Funding: INR 161.33 Lakhs						

Summary of Publications, Sponsored Projects & Consultancies

2018-2019

Schools	School of Engineering	School of Basic & Applied Sciences	School of Allied Health Sciences	School of Commerce and Management	TOTAL
Journal Publications	44	27	21	5	97
Book Chapter(s)	18	04	11	1	34
Sponsored Projects	06 ISRO: 03 DST: 01 SERB: 01 VGST:01				06