



SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

(Deemed to be University)

Research Publications 2018/19

Mathematics & Computer Science

PUBLICATIONS IN PEER REVIEWED JOURNALS

- P D N Srinivasu, D K K Vamsi, Ananth V S, Additional food supplements as a tool for biological conservation of predator-prey systems involving type III functional response: A qualitative and quantitative investigation, *Journal of Theoretical Biology*, 455, 303-318, (2018). DOI: 10.1016/j.jtbi.2018.07.019 [Link to Publication](#)
- K S P Sowndarya, Y Lakshmi Naidu, Perfect Domination for Bishops, Kings and Rooks Graphs on Square Chessboard, *Annals of Pure and Applied Mathematics*, 18(1), 59-64, (2018). DOI: dx.doi.org/10.22457/apam.v18n1a8
- J Bhanu Teja, Phani Krishna Kandala, Srivarun Vallampatla, Poorna Viswanadha Sravan Nukala, Pallav Kumar Baruah, Satya Sai Mudigonda, SSSIHL Data Cleaning Framework Using HADOOP, *International Journal of Scientific & Engineering Research (IJSER)*, 10(3), (2019). [Link to Publication](#)
- Sampath Lonka and Rajat Tandon, Zero Weight Space for Tori Inside a Division Algebra, *Journal of Ramanujan Mathematical Society*, 33(4), 435-454, (2018). [Link to Publication](#)

CONFERENCE PRESENTATIONS / PROCEEDINGS

- K S P Sowndarya, Y Lakshmi Naidu, Dominator and Total Dominator coloring of Bishops and Rooks on Square Chessboard, *International Conference on Graph Theory and its Applications* (4-6 Jan 2019) Amrita Vishwa Vidyapeetham, Coimbatore, Chennai.
- Akhilesh Pandey, S Balasubramanian, Gunasekar D, Karam Rai, Darshan Gera, Global Feature Representation using Squeeze, Excite and Aggregation Networks (SEANet), *1st International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2019)* (3-4 Mar 2019) National Institute of Technology (NIT), Kurukshetra, Haryana.
- Varshaneya V, Balasubramanian S, Darshan Gera, Res-SE-Net: Boosting performance of Resnets by enhancing bridge-connections, *1st International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2019)* (3-4 Mar 2019) National Institute of Technology (NIT), Kurukshetra, Haryana.
- Kelam Goutam, S. Balasubramanian, Darshan Gera, R Raghunatha Sarma, LayerOut: Freezing Layers in Deep Neural Networks, *1st International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2019)* (3-4 Mar 2019) National Institute of Technology (NIT), Kurukshetra, Haryana.

Physics

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- Hari Nandakumar, Swaroop Parameshwaran, Rohith Gamini and Shailesh Srivastava, Artifact-free robust single-shot background subtraction for optical coherence tomography, *Continuum (Optical Society of America)*, 2 (5), 1556-1564, (2019). DOI: 10.1364/OSAC.2.001556
- R Saai Harini, D Easwaramoorthy, V Sai Muthukumar, R Gowrishankar, S Anandan, Bandgap engineered (tin & carbon co-doped) bismuth titanate nanowires for improved visible-light assisted photocatalytic

application, *Environmental Nanotechnology, Monitoring & Management*, 12, 100228, (2019). DOI: 10.1016/j.enmm.2019.100228

- Ranjan Rai, Muralikrishna Molli, Effect of La doping on structural, magnetic, and optical properties of KBiFe_2O_5 , *Journal of Materials Science: Materials in Electronics*, 30(4), 4318-4325, (2019). DOI: 10.1007/s10854-019-00724-3
- Sandeep Patnaik, Aditya D Kurdekar, L A Avinash Chunduri, C Prathibha and K Venkataramaniah, In Vitro Dissolution Studies on Naproxen-PVP Nanoformulations Show Enhanced Oral Bioavailability of Naproxen, *International Journal of Medical Nano Research*, 5(1), 1-9, (2018). DOI: 10.23937/2378-3664/1410023
- Ranjan Rai, Agnes George, V Sai Muthukumar, K B R Varma, Reji Philip, Muralikrishna Molli, Investigation of nonlinear optical and photocatalytic properties of sol-gel derived KBiFe_2O_5 , *Journal of Materials Science: Materials in Electronics*, 30(12), 11451-11457, (2019). DOI: 10.1007/s10854-019-01494-8
- Sai Pavan Prashanth S, Martando R, Saikiran P, Sai Muthukumar V, Ramachandra Rao M S, and K B R Varma, Large nonlinear refraction in pulsed laser deposited BCZT thin films on quartz substrates, *Journal of Optical Society of America B*, 35(10), 2625-2632, (2018). DOI: 10.1364/JOSAB.35.002625
- Sai Pavan Prashanth S, Jaschin P W, Sreekanth P, Anitta Rose T, Sai Muthukumar V, Reji P, K B R Varma, Nonlinear optical properties of lead-free ferroelectric nanostructured perovskite, *Applied Physics B*, 124(200), 1-7, (2018). DOI: 10.1007/s00340-018-7062-2
- Sumukh Nandan R, Saroj Poudyal, Shailesh Srivastava, and R Gowrishankar, Self-beating resonant optical gyroscope with a 'reflector': the possibility of high sensitivities at reduced costs, *Applied Optics*, 58(7), 1699-1706, (2019). DOI: 10.1364/AO.58.001699
- Sandeep Patnaik, L A Avinash Chunduri, Aditya Kurdekar, C Prathibha, V Sai Vamsi Krishna, Sai Kiran Aditha, and K Venkataramaniah, Soluplus® Enhances Many Fold the Dissolution Characteristic of Ibuprofen Through Ibuprofen-Soluplus Nanoformulations, *Journal of Bionanoscience*, 12(5), 621-628, (2018). DOI: 10.1166/jbns.2018.1567
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- Prathibha Chinnakoti, Aditya Dileep Kurdekar, Avinash Chunduri L.A, Saikiran Aditha, Anjana Biswas, Shankar V Mthukonda and Venkataramaniah Kamiseti, Titanate nanobelts – a promising nanosorbent for defluoridation of drinking water, *Separation Science and Technology*, (2019). DOI: 10.1080/01496395.2019.1580733

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- Sudheer Babu, Abhinay Vishwanatham, Amar Sainath Reddy Tamanampudi, Boopala Krishnan, Sai Prem Shaji, Jai Ganesh Udayasankaran and Prasana Raja, Siva Sankara Sai Sanagapati., Smart telemetry kit for proactive health monitoring in rural India: The journey so far and the road ahead, *IEEE Healthcom International Conference on E-health Networking, Application & Services* (17-20 Sep 2018) Ostrava, Czech Republic.
- C Prathibha, Anjana Biswas, Titanate nanostructures as highly efficient defluoridation adsorbents, *Andhra Pradesh Science Congress* (9-11 Nov 2018) Yogi Vemana University, Kadappa, Andhra Pradesh.
- K Vijay Sai, R Gowrishankar, P C Sood, Landmark role of $Z=101/100$ nuclides in the transuranic region, *DAE International Symposium on Nuclear Physics* (10 Dec 2018) Bhabha Atomic Research Centre, Mumbai. Proceedings: 63 (2018), 126-127.
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- Hari Nandakumar, Satya Prasanna Mallick, Shailesh Srivastava, Full-field Time Domain Optical Coherence Tomography: Reducing Motion Artifacts using a Novel Single-Shot Background Subtraction Method, **International Conference on Fiber Optics and Photonics** (12-15 Dec 2018) Indian Institute of Technology, New Delhi.
- Abhinay Vishwanatham, Narendra Ch, Abhishek S R, Ramakrishna Chaitanya, R, Siva Sankara Sai Sanagapati, Satyabrata Mohanty, Smart and Wearable ECG monitoring system as a Point of Care (POC) device, **IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)** (16-19 Dec 2018), Indore. Proceedings: IEEE Xplore, June 2018. ISBN: 978-1-5386-2347-3, (2018).
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- K V Sai Sundar, Kumar T Rajamani, S Siva Sankara Sai, Exploring Image Classification of Thyroid Ultrasound Images Using Deep Learning, **International Conference on ISMAC in Computational Vision and Bio-Engineering** (16-17 May 2018) SCAD Institute of Technology, Coimbatore. Proceedings: ISMAC-CVB pp.1635-1641.

Chemistry

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- Sai Manohar, Chelli, Parth Gupta, Siva Kumar, Belliraj, An in silico design of bioavailability for kinase inhibitors evaluating the mechanistic rationale in the CYP metabolism of erlotinib, **Journal of Molecular Modeling**, 25(3), 65, (2019). DOI: 10.1007/s00894-018-3917-z
- Kandanur S G S, Tamang N, Golakoti N R, Nanduri S, Andrographolide: A natural product template for the generation of structurally and biologically diverse diterpenes, **European Journal of Medicinal Chemistry**, 176 (513-533), (2019). DOI: 10.1016/j.ejmech.2019.05.022
- Sai Giridhar Sarma Kandanur, Somanath Kundu, Christian Cadena, Homero San Juan, Avinash Bajaj, Juan David Guzman, Srinivas Nanduri, Nageswara Rao G, Design, synthesis, and biological evaluation of new 12-substituted-14-deoxy-andrographolide derivatives as apoptosis inducers, **Chemical Papers**, 73(12), 1669-1675, (2019). DOI: 10.1007/s11696-019-00718-9
- Sai Manohar Chelli, Manikandan A, Sridhar P, Sivakumar A, Siva Kumar Belliraj, Sabbasani Rajasekhara Reddy, Drug repurposing of novel quinoline acetohydrazide derivatives as potent COX-2 inhibitors and anti-cancer agents, **Journal of Molecular Structure**, 1154, 437-444, (2018). DOI: 10.1016/j.molstruc.2017.10.075
- Pradeep Kumar Badiya, Sai Praneeth Thota, Sandeep Yerram, Praveen V Vadlani, Pallavi Vedantam, Sai Sathish Ramamurthy, Nageswara Rao Golakoti, Robin Sharma, B S Vijaya Kumar, Endophytic Fungi from Aegle

marmelos Plant: A Potent and Innovative Platform for Enhanced Cellulolytic Enzyme Production, **Journal of Technology Innovations in Renewable Energy**, 7, 7-18, (2018). [Link to Publication](#)

- R S S Murali, GN Rao, R Basavaraju, Ethnomedicinal Importance of Adhatoda vasica in the South East Asian Countries: Review and Perspectives, **Journal of Ethno Medicine**, 12(2), 120-131, (2018). DOI: 10.31901/24566772.2018/12.02.526
- Sai Praneeth Thota, Pradeep Kumar Badiya, Yadhu Nadh Guragain, Praveen Venkata Vadlani, Meera Pandey, Rajesh Babu Dandamudi, Sai Sathish Ramamurthy, and Siva Kumar Belliraj, Innovative Consortia of Micro and Macro Fungal Systems: Cellulolytic Enzyme Production from Groundnut Shell Biomass and Supportive Structural Analysis, **Journal of Sustainable Bioenergy Systems**, 8(3), 47-66, (2018). DOI: 10.4236/jsbs.2018.83004
- K N S Visweswar, A Sunil, A Sri Harsha, Ch. Janardhana, Interaction studies of lead(II) ion with cyclic β -(1 \rightarrow 3),(1 \rightarrow 6) glucans extracted from Bradyrhizobium japonicum based on 'chelation enhanced fluorescence' (CHEF) effect, **Luminescence**, 33(7), 1202-1208, (2018). DOI: 10.1002/bio.3536
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- Krishna Prasad Gannavarapu, Samar Azizighannad, Sai Muthukumar V, Somenath Mitra, and Rajesh Babu Dandamudi, Microwave-Assisted Biogenic Synthesis of Metal-Decorated Reduced Graphene Oxide and their Electrochemical Properties, **Chemistry Select**, 3(47), 13438-13441, (2018). DOI: 10.1002/slct.201803420
- Krishna Prasad Gannavarapu, Samar Azizighannad, Muralikrishna Molli, Meera Pandey, Sai Muthukumar V, Somenath Mitra, Rajesh Babu Dandamudi, Nanoporous hierarchical carbon structures derived from fungal *basidiocarps* for high performance supercapacitors, **Energy Storage**, 1(3), 1-12, (2019). DOI: 10.1002/est.2.5
- Krishna Prasad Gannavarapu, V Ganesh, Megha Thakkar, Somenath Mitra, Rajesh Babu Dandamudi, Nanostructured Diatom-ZrO₂ composite as a selective and highly sensitive enzyme free electrochemical sensor for detection of methyl parathion, **Sensors and Actuators B: Chemical**, 288(1), 611-617, (2019). DOI: 10.1016/j.snb.2019.03.036
- S Chauhan, K Singh, C N Sundaresan, Physico-chemical characterization of drug-bio-surfactant micellar system: A road for developing better pharmaceutical formulations, **Journal of Molecular Liquids**, 266, 692-702, (2018). DOI: 10.1016/j.molliq.2018.07.008
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- Krishna Prasad Gannavarapu, Rajesh Babu Dandamudi, Shape engineered three dimensional α -Fe₂O₃-activated carbon nano composite as enhanced electrochemical supercapacitor electrode material, **International Journal of Energy Research**, 42(15), 4687-4696, (2018). DOI: 10.1002/er.4211
- Swayamsiddha Kar, Naveen Shivalingegowda, Lokanath Neratur Krishnappagowda and Nageswara Rao Golakoti, SiCl₄ mediated one-pot synthesis of novel spirobibenzopyrans as potent anticancer agents, **New Journal of Chemistry**, 43(12), 4669, (2019). DOI: 10.1039/C8NJ06444J
- Venkatesh S, Abhay Andar, Yordan Kostov, Govind Rao, Spacer and Cavity Engineering on Low-cost Plastic Substrates for 100-Fold Enhancements in Metal-Dielectric-Metal-Based Directional Fluorescence Emission, **Plasmonics**, 14(7), (2018). DOI: 10.1007/s11468-018-0851-y
- Aditya Dileep, Kurdekar, Avinash Chunduri, L A, C Sai Manohar, Mohan Kumar Haleyurgirisetty, Indira K Hewlett, Kamiseti Venkataramaniah, Streptavidin-conjugated gold nanoclusters as ultrasensitive fluorescent sensors for early diagnosis of HIV infection, **Science Advances**, 4(11), (2018). DOI: 10.1126/sciadv.aar6280
- Maku Moronshing, Seemesh Bhaskar, Sudeshna Mondal, Sai Sathish Ramamurthy, Chandramouli Subramaniam, Surface-enhanced Raman scattering platform operating over wide pH range with minimal chemical enhancement effects: Test case of tyrosine, **Journal of Raman Spectroscopy**, 50(6), 826-836, (2019). DOI: 10.1002/jrs.5587
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- Agman Gupta, Chelli Sai Manohar, B Siva Kumar, Use of Cation-doped Hydroxyapatite - Hydroxyapatite Nanorods/Amorphous Aluminium Hydroxide for Defluoridation, **4th India International Science Festival (IISF)** (5 Oct 2018) Lucknow.
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- Ram Murthy, C N Sundaresan, Corrosion Inhibition of Mild Steel in Hydrochloric Acid Solution of novel Organosulfur Compounds, **National Conference on Applied Materials and Applications** (7 Sep 2018) Katpadi, Vellore, Tamil Nadu.
- Sai Praneeth Thota, Siva Kumar Belliraj, Praveen Vadlani, Innovation from Groundnut biomass: An Integral Processing to High-Value Energy, **WSED Young Energy Researchers Conference** (27-28 Feb 2019) Wels, Austria.

BOOKS

- Pradeep Kumar Badiya, Sai Sathish Ramamurthy, **Low-cost Biomaterials for Bioprocessing and Plasmonic Application**, LAP LAMBERT Academic Publishing (Beau Bassin, Mauritius) (2018). ISBN: 978-613-9-89213-6

Biosciences

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- Aiyer, K S, and Vijayakumar B S, An improvised microtiter dish biofilm assay for non-invasive biofilm detection on microbial fuel cell anodes and studying biofilm growth conditions, **Brazilian Journal of Microbiology**, (2019). DOI:10.1007/s42770-019-00091-5
- Mukul Anand and Basavaraju R, Anti- microbial efficacy of *Tecoma stans* (L.) Juss ex Kunth: A Review, **European Journal of Biotechnology and Bioscience**, 7(1), 27-30, (2019). <http://www.biosciencejournals.com/archives/2019/vol7/issue1/7-1-20>
- Aiyer Kartik S, Rai R, Vijayakumar B S, Assessing Activity of Antimicrobial Agents and Screening Antibiotic-Resistant Bacteria Through DREAM Assay, **Applied Biochemistry and Biotechnology**, (2019). DOI: 10.1007/s12010-019-02981-8
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- Peter Klepsatel, Thirnahalli Nagaraj Girish, Heinrich Dirksen, Martina Gáliková, Reproductive fitness of *Drosophila* is maximised by optimal developmental temperature, *Journal of Experimental Biology*, 222(10), (2019). DOI: 10.1242/jeb.202184
- Sai Manohar Chelli, B Siva Kumar, Sai Pavan Prashanth Sadhu, Sai Krishna Srimadh, V Sai Muthukumar, S Venketesh, K B R Varma, Novel Lead-free biocompatible piezoelectric Hydroxyapatite (HA) – BCZT (Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O₃) nanocrystal composites for bone regeneration, *Nanotechnology Reviews, De Gruyter*, 8(1), 61-78, (2019). DOI: 10.1515/ntrev-2019-0006
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- T N Girish, B E Pradeep, Ravi Parkash, Diet induced adaptation to heat and drought stress due to plastic changes in energy metabolites, hardening capacity and life history traits among fig fruit reared *Zaprionus indianus*, **60th Annual Drosophila Research Conference** (27-31 Mar 2019) Dallas, Texas, USA.

Food & Nutritional Sciences

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- Manjula Devi Ghoora, Nagarjan Srividya, Micro-farming of greens: A viable enterprise for enhancing economic, food and nutritional security of farmers, **International Journal of Nutrition and Agriculture Research**, 5(1), 10-16, (2018). [Link to Publication](#)
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- P Lakshmi Priya, Meera M, Development of multigrain based products, **50th Annual International Conference of Nutrition Society of India** (15-17 Nov 2018) ICMR-National Institute of Nutrition, Hyderabad.
- D Tejasri, Meera M, Development and popularization of millet based products, **50th Annual International Conference of Nutrition Society of India** (15-17 Nov 2018) ICMR-National Institute of Nutrition, Hyderabad.
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