



CAS Bulletin **Science section**



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Content

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Library Collection

(As on 31st December 2020)

Total Books: 53659

Non-Book Materials

Periodical: 69

CDs: 254

Journals: 41

Maps: 51

Magazines: 28

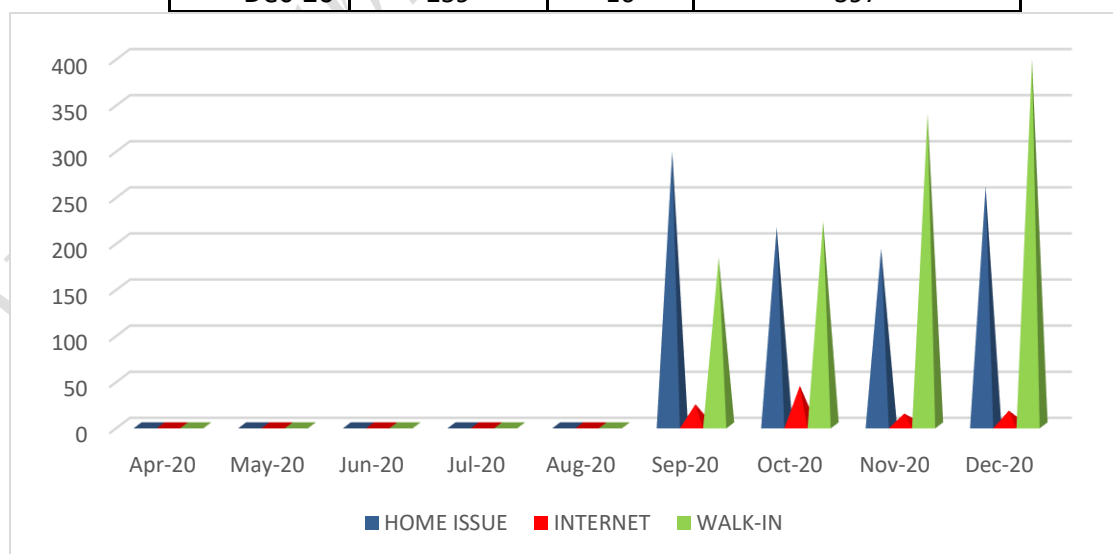
E-resource: N-List (consortium) Including
6000+ E-journals & 31,35,000+ Ebooks.

Newspapers: 33

Institutional Membership of American Library

Library Usage Statistics

MONTH	HOME ISSUE	INTERNET	WALK-IN
Apr-20	0	0	0
May-20	0	0	0
Jun-20	0	0	0
Jul-20	0	0	0
Aug-20	0	0	0
Sep-20	297	23	182
Oct-20	215	43	222
Nov-20	192	13	338
Dec-20	259	16	397



List of Journals

Sr.No.	Title	Frequency
1	CSIR-News	Monthly
2	Indian Journal of Biotechnology	Monthly
3	Indian Journal of Biochemistry And Biophysics	Bio-monthly
4	Indian Journal of Chemistry Section A	Monthly
5	Indian Journal of Chemistry Section B	Monthly
6	Indian Journal of Experimental Biology	Monthly
7	Indian Journal of Pure & Applied Physics	Monthly
8	Indian Journal of Traditional Knowledge	Quarterly
9	Journal of Scientific Industrial Research	Monthly
10	Medicinal & Aromatic Plants Abstracts	Bi Monthly
11	The IUP Journal of Computer Sciences	Quarterly
12	The IUP Journal of Information Technology	Quarterly

Contents of Journals

1. CSIR-News

Website: <http://www.csir.res.in>

Vol-,70 No- 7 pp.121-140

July-2020

ISSN: 0409-7467

Frequency- Quarterly

Articles

- CSIR-Summer Research Training Programme Gets Overwhelming Response Page-122
- Bengaluru Airport Installs Aviation Weather Monitoring System Developed by Nal Page-124
- Biosensors for Lactates Operating in Dual Mode Page-132
- Combating Multi-drug Resistant Malaria Parasite Page-133
- CSIR-HRDC Organises MS Teams Familiarization & Plantation Programmes page-134
- IMTECH conducts Webinar on Bio-methodology of Laboratory Animals Page-137

1.1 CSIR-News

Website: <http://www.csir.res.in>

Vol-,70 No- 8 pp.141-160

August-2020

ISSN: 0409-7467

Frequency- Quarterly

Articles

- Dr. Harsh Vardhan Presides over signing of MoU between CSIR and Fssai for Collaborative Research and Information Dissemination regarding food and Nutrition Page-141
- Dr. Harsh Vardhan Launches “CSIR Technologies for COVID -19 Mitigation Compendium Page-143
- CSIR-IICT Signs an MoU with Govt of Telangana Page-144
- CSIR Launches Webinar Series in Indian Languages to Disseminate Information about COVID-19 Page-144
- CSIR-CECRI Celebrates 73rd Foundation Day Page-153
- Dr. Lidita Khandeparker Receives Dr. Anna Mani National Award for Woman Scientist for the year 2020 Page-154
- Dr. V.V. S.S. Sarma Receives the “ National Award in the field of Ocean Science and Technology” for the year 2020 Page-155
- CSIR Young Scientist Award 2020 Page-156

2 Indian Journal of Biotechnology

Website : <http://www.csir.res.in>.

Vol-19 No- 2 pp.65-152

April-2020

ISSN: 0972-5849

Frequency - Quarterly

Articles

- Understanding the mode of regulation of proline biosynthesis for drought tolerance in transgenic rice overexpressing PDH47 gene BY- Dhanawantari L. Singha ,Sangeeta Sarma ,Salvinder Singh Page-73
- Expression analysis of maize genes during Bipolaris maydis infection and assessing their role in disease resistance and symptom development BY- Shweta Meshram ,Robin Gogoi, Bishnu Maya Bashyal ,Aundy Kumar ,Pranab Kumar ,Mandal and Firoz Hossain Page-82
- Constitutive expression of protease inhibitor gene isolated from black gram confers resistance to Spodopteralitura in transgenic tobacco plants BY- Mudiappanayar jagdish and K R Koundal Page-94
- Assessment of phenotypic developmental traits and hybrid vigor in Arabidopsis thaliana BY- Astha Gupta,Samir V. Sawant ,Hemant Kumar Yadav Page-102
- Identification of new strain of mungbean yellow mosaic virus infecting French bean in Santiniketan BY- Nisha Patwa ,Varsha Kumari and Jolly Basak Page-113
- Relationship between polymorphisms of leptin gene with growth fertility and milk production traits in Sahiwal cows BY- Prajwalita Pathak ,Anupama Mukherjee, Shabhat Mumtaz and Suchit Kumarn Page-118
- Development of a multiplex PCR for the identification of Pseudomonas aeruginosa Escherichia coli Klebsiella pneumonia and Streptococcus agalactiae in milk BY- Isha Sekhri, Mudit Chandra, Gurpreet kaur, Deepti Narang and A. K. Arora Page-125
- Assessment and comparison of four lab made tris- base extenders for preservation of Labrador retriever dog semen at 4C BY- Sukhjeet Kaur, Ranjna S Cheema ,Gurjot K Mavi, M Honparkhe, Ashwani K Singh and V K Gandotra Page-131
- Reduction of polyphenolic exudation and enhancement of hardening efficiency in pomegranate tissue culture plants BY- Manasa P and Sridharan T B Page-140

3 Indian Journal of Biochemistry & Biophysics

Website : <http://www.csir.res.in>

Vol -,57 No- 2 pp.117-256

April-2020

ISSN: 0972-5849

Frequency- Bi-Monthly

Articles

- *Trianthema portulacastrum* L. Traditional medicine in healthcare and biology BY- Uttam Das, Tanmy saha ,Rita Ghosh & Subir Kumar Das Page-117
- Biomarkers in Overactive Bladder BY- Manidip Pal & Soma Bandyopadhyay Page-146
- Thiol stabilized copper nanoparticles exert antimicrobial properties by preventing cell division in *Escherichia coli* BY- Ganesh Kumar N, Satya Deo Paney ,Sathi Mallick ,Sudip Kumar Ghosh Panchanan Pramanik & Anindya Ghosh Page-151
- Inflammation A Protagonist in development of carcinogen induced cervical cancer in mice BY- Elizabeth Mahapatra ,Souvick Biswas , Madhumita Roy & Sutapa Mukherjee Page-158
- PEITC by regulating aurora kinase a reverses chemoresistance in breast cancer cells BY- Souvick Biswas ,Elizabeth Mahapatra, Madhumita Roy & Sutapa Mukherjee Page-167
- Effect of Indian honey on expression of p53 and cyclin B1 in HeLa cells BY- Amruta Naik ,Sucheta Dandekar & Nishigandha Naik Page-178
- A Prospective study to evaluate the demographic variation of independent sequences in cell-free fetal DNA concentration and to predict pregnancy outcomes by non- kit based economical method BY- Mriganka Mouli Saha, Subir Kumar Das Madhumita Mukhyopadhyay & Maitree Bhattacharya Page-185
- Association of brain –derived neurotrophic factor polymorphism with the risk of Parkinson’s disease and influence on clinical outcome BY- Syed Tazeem Fathima ,Tasneem Fathima SD, Rukmini Mridula Kandadai, Vijay Kumar Kutala & Rupam Borgohain Page-192
- Association of SLC6A3 gene polymorphisms with the pharmacokinetics of Levodopa and clinical outcome in patients with Parkinson’s disease BY- Tasneem Fatima SD, Syed Tazeem Fathima, Boddupally Sreenu Mridula Kandadai, Rupam Borgohain & Vijay Kumar Kutala Page-202
- Increased erythrocyte osmotic fragility in hypothyroidism BY- Tanmay Saha & Subir Kumar Das Page-213
- Grape extract protect against ionizing radiation –induced DNA damage BY- Indrani Singha , Sudhanshu Saxena , Satyendra Gautam ,Abhijit Sha & Subir Kumar Das Page-219
- Important chemical structural features of curcumin and its derivatives How do they influence their anticancer activity BY- KI Priyadarsini ,V V Gandhi & A Kunwar Page-228

- Association of vitamin D receptor gene polymorphism with blood lead levels in occupationally lead-exposed male battery workers in Delhi –National capital region ,India BY- Himani, Raman Kumar ,Busi Karunanand & Sudip Kumar Datta Page-236
- Application of machine learning tools for evaluating the impact of premenopausal hysterectomy on serum anti-Mullerian hormone levels BY- Boddupally Sreenu, SV Kameswari, Shaik Mohammad Naushad ,Vijay Kumar Kutala Page-245

3.1 Indian Journal of Biochemistry & Biophysics

Website: <http://www.csir.res.in>.

Vol-,57 No- 3 pp.257-362

June-2020

ISSN: 0972-5849

Frequency- Bi-Monthly

Articles

- Clinico –Pathogenesis of COVID -19 in Children BY- Kaveri Pandit ,Shalu Gupta & Ankita Goel Sharma Page-264
- Fluorescence quenching and measurement of captopril pharmaceuticals BY- Yahong Chen , Weixiao Chang ,Xue Zhu, Ruiyong Wang & Fengshou Tian Page-270
- Mineralization changes substituted type B carbonate of PO₃- ion in the bone minerals of an archaeological sample studied using fourier self deconvolution technique BY- G Velraj ,S Karthikeyan & A chitra Page-277
- Structural insights on Sucrose transport by *Oryza sativa* L. Sucrose /H Symporter through refined sequence –template alignment based structural modeling BY-Divya P Syamaladevi & Bhagyashree Biswal Page-283
- Antimicrobial study of Arjuna Terminalia loaded Plga nanoparticle BY- Vinod Kumari & Aditi Sangal Page-291
- Phenolic constituents antioxidant and antimicrobial activities of methanolic extracts of some female cones of gymnosperm plant BY- Alican Bahadir Semerci , Dilek Incecayir , Tugba Konca ,Hatice Tunca & Kenan Tunc Page-298
- Evaluation of *Juglans regia* L. root for wound healing via antioxidant antimicrobial and anti-inflammatory activity BY- Junyi Huo, Zhuowei Zhao, Zhen Hua ,Jinghua Fan Jing Du & Bo Guo Page-304
- Development of molybdenum disulphide reinforced alginic acid composites BY- Kalyani Sreekumar & B Bindhu Page-312
- Degradation of crude oil using the indigenous isolate *Bacillus* sp SEA18BY- Swetha Sunkar ,Elakiya Vani P, Ammonica Barret K, Valli Nachiyar C & Prakash P Page- 317
- Characterization of *Rhizobium* sp isolated from root nodule of *Acacia mangium* L. BY- Sachidananda Subudhi, Debadatta Sethi & Sushanta Kumar Pattanayak Page-327

- Correlation of serum fructosamine erythrocyte Na –K ATPase and glutathione peroxidase with HbA1c levels BY- H Nandita Mallya ,Varashree BS Revathi P Shenoy & Shruti N Bhatkalkar Page-334
- Sex and age-related changes in L- arginine metabolism in peripheral blood leukocytes in Young Caucasians with type I diabetes mellitus BY- AM Melkonyan AG Guevorkyan N Kh Alchujyan MR Hovhannisyan NH Movsesyan, HL Hayrapetyan ,GA Kevorkian & YM Aghajanova Page-339

3.2 Indian Journal of Biochemistry & Biophysics

Website: <http://www.csir.res.in>.

Vol.,57 No- 4 pp.363-496

August-2020

ISSN: 0972-5849

Frequency- Bi -Monthly

Articles

- Impact of COVID -19 lockdown in Tami Nadu Benefits and challenges on environment perspective BY- Chitra J.Rajendran SM Jeba Mercy J & Jeyakanthan J. Page-370
- Effects of miR-222 on cisplatin resistance of renal cancer cell strains and related mechanisms BY-Haouzhi Liu & Yun Zhang Page-382
- Computational screening of anticancer drugs targeting miRNA155 synthesis in breast cancer BY- Saumya Srivastava & Anjana Pandey Page-389
- Association of Lipid biomarkers with drinking patterns and severity in alcoholic liver disease –A hospital –based cross-sectional study BY-Anbalagan Anithasri , Subramaniam Arulvijayavani, Poonguzhali Gopinath & Annamalai Kumarasamy Varuni Page-395
- Evaluation of cell viability of gold nanoparticle –reduced grapheme oxide composite on MCF-7 Cell lines BY- Santhiya & P Lalitha Page-401
- Characterization of immobilized α - amylase on functionalized on grapheme oxide surface BY- Zhang Han, Hua Shaofeng ,Zhang Lei, Fan Yunchang ,Guo Fengzhe , Wei Dongyue & Zhang Meijin Page -411
- Air quality during COVID -19 lockdown Blessing in disguise BY- Shilpi Ghosh &Shatabdi Ghosh Page-420
- Ultrasonication mode for the expedition of extraction process of chitin from the maritime shrimp shell waste BY- Nisha Suryawanshi, Seenivasan Aothiraman & J Satya Eswari Page-431
- Quantitative analysis of international collaboration on COVID-19 Indian perspective BY- Manohar Pathak Page-439
- The damaging effect of consuming fermented *Oryza sativa* var. glutinosa on the pancreatic organ BY- Ruqiah Ganda Putri Panjaitan & IKa Rahmawati Page-444
- Methane production enhancement and comparative study of biodegradation of some plants and animal BY- Ezekoye Vernica ,Peter Offor ,Ofomatah Anthony , Agbogou Ada & Ezekoye David Page-449

- In silico analysis of k-theraphotoxin –Cg2a from *Chilbrachys guangxiensis* BY- Zubin Abdul Zaheer & Kavitha Sankaranarayanan Page-458
- High dilutions of two drugs in crystal water structure of lactose as revealed by thermogravimetry and differential scanning calorimetry BY- Priya Mondal , Nirmal Chandra Sukul ,Anubha Dey, Ashis Bhattacharjee Md Amir Soheli , Asmita Sengupta & Anirban Sukul Page-467
- Diversity of *Bacillus thuringiensis* cry genes in soils of Andhra Pradesh India BY- Devaki Kayam, Murali Krishna Tirupati & hari Prasad Karanam Page-471
- Efficacy of orange peel in the decolourization of the commercial auramine yellow dye used in textile industry BY- J John Paul ,A Surendran & AJ Thatheyus Page-481
- Effects of administration of 10 nm or 50 nm gold nanoparticles on blood Profile ,liver and kidney functions in male albino rats BY- Sahar H Orabi Doaa A Mansour ,Said I Fathalla ,Shaaban M Gadallah ,Amina A Gamal ElDin ,& Ahmed Sabry S Abdoon Page-494

3.3 Indian Journal of Biochemistry & Biophysics

Website : <http://www.csir.res.in>.

Vol -,57 No- 5pp.497-652

October-2020

ISSN: 0972-5849

Frequency- Bi-Monthly

Articles

- The pharmacological potential of catechin BY- Aditya Ganeshpurkar & Ajay Saluja Page-505
- Diabetes in the time COVID -19 Pandemic A knife with two sharp ends BY- Shatabdi Ghosh Page-512
- MicroRNA-9-5P inhibits osteosarcoma cell promotion metastasis and resistance to apoptosis via negatively targeting Grb2-associated binding protein 2 BY- Fengbo Wang ,ke Wang ,MingWei Tang Qiongfeng Wang & XiaFei Wei page-521
- Theoretical insight into the antioxidant ,electronic and anticancer behavior of simmondsin BY- Asli Ozturk Kiraz Page-530
- Design of experiments for enhanced production of bioactive exopolysaccharides from indigenous probiotic lactic acid bacteria BY- Bilqeesa Bhat ,Surbhi Vaid ,Bisma Habib & bijender Kumar Bajaj Annamalai Kumarasamy Varuni Page-539
- Stable release of enhanced organic solvent tolerant amylase from *Bacillus amyloliquefaciens* AMY02 under submerged fermentation BY- Periasamy Anbu ,Subash CB Gopinath jae –Seong So & S Jayanthi Page-552
- Effect of verteporfin –mediated photodynamic therapy in breast cancer cells BY- Pinar kilicaslan Sonmez ,Ali Turhan , Mustafa Oztatlici & Kemal Ozbilgin Page-560

- Effect of diallyl disulphide on hepatic glucose regulating enzymes in diabetic rats BY- Prashanthkumar Godappala ,Ethirajan Sukumar ,Kashinath RT & Krishnamurthy Vinothkumar Page-567
- Effect of chrysin endothelial vasodilation on L- NAME induced hypertensive rats BY- Veerappan Ramanathan, Dominic Amalraj Arul Anandu & T Malarvili Page-572
- Molecular docking study to elucidate the anti-pruritic mechanism of selected natural ligands by desensitizing TRPV3 ion channel in psoriasis An in silico approach BY- Anurag Agrawal ,Giriraj T Kulkarni & Lakshmayya Page-578
- In silico analysis of functional non-synonymous and intronic variants found in a polycystic ovarian syndrome candidate gene DENNDIA BY- Dakshina Moorthy Janani & Balasundaram Usha Page-584
- Effect of COVID-19 Pandemic on mental health of the health care workers BY- Shilpa Ghosh & Shatabdi Ghosh Page-594
- Machine learning approach for COVID-19 crisis using the clinical data BY- NRP Kumar & NS Shetty Page-602
- Synthesis quantification ,dft calculation and molecular docking of methanone BY- Fathima Shahana M & Yardily A Page-606
- Potential removal of phenol using modified laterite adsorbent BY- GVS Sharma ,K Sudha Rani, K Sarath Chandra , Bonige Kishore Babu & K V Ramesh Page-613
- Synthesis, characterization dft calculation docking studies ,antioxidant and anticancer activities of some 3- pyridines BY- S Mahil Rani S Viola Rose & TF Abbs Fen Reji Page-620
- In vitro toxicity of low-level green laser irradiation effects on human breast cancer cell lines BY- Husna Azdiyah Habita Habit , Nursakinah , Suardi, Shahrom Mahmud ,Rabiatul Basria SMN Mydin & Siti Khadijah Mohd Bakhori Page-627
- Biochemical variability of eggplant peel among Indian cultivars BY- Vinod Kumar Yadav , R Singh ,Radha Krishana Jha & Prashant Kaushik Page-634
- Uremia toxin helps to induce inflammation in intestines by activating the ATM /NEMO/NF –kB signaling pathway in human intestinal epithelial cells BY- Ruibin Zhang Feng Guo, Xia Xue Ruihong Yang & Lihui Wang Page-638

3.4 Indian Journal of Biochemistry & Biophysics

Website: <http://www.csir.res.in>

Vol-,57 No- 6 pp.653-744

DECEMBER-2020

ISSN: 0972-5849

Frequency- Bi-monthly

Articles

- COVID-19 and Hyperinflammatory Syndrome BY-Partho Sarothi Ray & Binta Goswami Page-662
- HIF-1 α contributing COVID -19 infections and Poor prognosis in cancer patients A hypothesis BY- Rajandeep Kaur, Anshika Chauhan & Arnab Pal Page-670
- Histopathological basis of COVID -19 A short review BY- Shouvanik Adhya Page-676
- Evaluation of Gamma glutamyl-transferase levels in COVID-19 A retrospective analysis in tertiary care centre BY- Neha Sani, Ram Krishan Saini, Mohana Kumari, Dev Kumar ,Manish Bhardwaj, Shiv Soni, Vikas Suri, Pankaj Malhotra, Sant Ram 7 Deepy Zohmangaithi Page-681
- Biomarker profile in pediatric inflammatory multisystem multisystem syndrome temporarily associated with SARS-CoV-2 multisystem inflammatory syndrome in children BY- Surupa Basu Arunalok Bhattacharyya Kshoun ish Roy & Apurba Ghosh Page-687
- SARS- CoV-2/COVID-19 infection in pregnancy and its outcome in a rural tertiary care centre of West Bengal BY- Mriganka Mouli Saha ,Subir Kumar Das, Nayan Chandra Sarkar,Rahul Chaudhuri, Sagar Gaikowad & Sagar SHirsath Page-694
- Impact of sanitizers on quality of Lipase and Triglyceride analytes in clinical laboratory BY- Anjali Sharma , Shalini ,Maksane ,Jhuma das, Sudhir Kumar Amandeep Birdi, Sojit ToMo, Dharmveer Yadav& Praveen Sharma Page-701
- Acute effects of hydroxychloroquine Prophylaxis for COVID-19 in health care care professionals An Online survey BY- Chanchal Kumar Dalai, Deblina Sarkar ,Abhishek Ghosh ,Shah Newaz Ahmed Subir Kumar Das ,Suman Kumar Roy & Keshab Mukhopadhyay Page-707
- Selenium a micronutrient can modulate viral diseases including COVID -19 BY- A Kunual & K India Priyadarsim Page-713

4 Indian Journal of Chemistry (Section) A

Website: www.niscair.res.in

ISSN-0376-4710

Vol-59 A no-08 pp-1059-1166 August-2020

Frequency-Monthly

Articles

- Zirconia –chitosan beads as highly efficient adsorbent for defluoridation of water BY- Swati Tandekar, D Saravanan& RavinJugade Page-1067
- Reactivity of electrochemically synthesised zinc nanofiber in facile reduction of nitro and azide compounds BY-Siba Prasad Mandal, Bibhas Mondal ,Rajat Saha, Mousumi Kundu & Ujjal Kanti Roy Page-1076
- Cadmium sulfide decorated with carbon nanoparticles from peanut shells An efficient Photocatalyst BY- V.J. Sawant D A Lavate & A S Khomane Page-1084
- Synthesis, characterization and photocatalytic dye degradation studies of novel defect pyrochlore $\text{KHf}_{0.5}\text{Te}_{1.5}\text{O}_6$ BY-M Sudheera, G Ravinder, G, Ravi P Venkataswamy K Vaisnavi, N Chittibabu & M Vithal Page-1092
- Onion based zinc oxide nanoparticles ability as electrochemical sensor BY- Lokesh kumar S, Indirajith P & Kishore K R Tetala Page-1100
- Ultrasonic velocity and allied acoustical parameters of 2, 4-dinitrophenyl hydrazine based Schiff base in DMSO BY- R Behura, Sunita Behera,B B Palai,S Mishra, M Mishra, S Behera,G Nath & B R.Jali Page-1108
- Study of the physic-chemical properties of vancomycin hydrochloride for determining its potential applications in formulation development By-Harjas Saini, Vikrant Abbot, Gopal Singh Bisht & Poonam Sharma Page-1113
- In vitro incompatibility study of valsartan and Hydrochlorothiazide by spectroscopic and RP-HPLC Method BY- M Manoj Kumar, D Hamaja & Sandip Sen Page-1120
- Interfacial and thermodynamic approach of surfactants with α -chymotrypsin and trypsin: A comparative study BY- Ramesh Kumar Banjare, Manoj Kumar Banjare Kallol K Ghosh Prashant Mundeja & Sandhyarani Panda Page-1128
- Thermophysical and thermodynamic properties of binary liquid systems of ionic liquid with carboxylic acids BY- Kandsamy G Moodley, Vasanthakumar Arumugam , Oriyomi P Ogundele HuanjunXu, Gan G Redhi Yanan Gao Page-1136
- A novel validated eco-friendly RP –UHPLC method for assay and related substances in Meropenem BY- K Tirumala Rao L Vaikunta Rao & V V Krishna Mohan Kandepi Page-1148

4.1 Indian Journal of Chemistry (Section) A

Website : www.niscair.res.in

ISSN-0376-4710

Vol-59 A no-09 pp-1247-1372 September -2020
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Frequency - Monthly

- Degradation of Orange G and Malachite Green dyes under visible light irradiation : Double layered core-shell nanoparticles as an efficient photocatalyst BY- Suganya Josephine G A & Sivasamy A Page-1259
- Novel homogeneous catalyst assisted sonocatalytic degradation of direct blue 71 BY- R. Bhavani & A Sivasamy Page-1265
- Solanum melongena leaf extract based zinc oxide nanoparticles synthesis using green chemistry concepts by- A Nagarajan, V Sethuraman , V Balasubramani, T M Sridhar ,R Sasikumar & G Vimala Page-1273
- Mechanism of photoinduced charge transfer at MEH-PPV and titanium dioxide nanoparticle interface BY- Jaya Seeli Shankar, Sangeetha Ashok Kumar, Bhuvana K Periyasami & Sanjay K Nayak Page-1278
- Modification of glassy carbon electrode with trigona carbon nanopetals/ferrocene/gold nanoparticles nanocomposite for electrochemical detection dopamine BY- E Murugan S Saranya & A Aswini Page-1285
- Fabrication of polycaprolactone /B- tricalcium phosphate based nano scaffolds using electrosprining method for biomedical applications BY-K Seethalakshmi M Kaviya M Sundara Ganeasan, B Venkatachalapathy, K M Veerabadran & T M Sridhar Page-1292
- Optoelectronic properties of all-Inorganic lead-free halide double perovskites AgBiBr₈ for solar cell applications BY- R Radhakrishnan Page-1298
- Synthesis growth characterizations of Benzimidazolium picrate single crystal and their biological activity BY- Ganesan Vadivelan ,Grahandurai Gohulavani Munusamy Saravanabhavan , Venkatesan , Murugesan & Marimuthu Sekar Page-1305
- Electrochemical analysis of nitrite contamination in water using SoTe@GO modified glass carbon electrode BY- E Murugan , A Dhamodharan ,A Poongan & K Kalpana Page-1313
- Selective adsorption of bovine hemoglobin by Ni²⁺ functionalized silica nanoparticles BY-Rao Fu* & Shan Jiang Page-1321
- Efficient soluble and polymer cross linked insoluble poly-4-vinyl pyridine metal chloride catalysts for esterification of butanol with acetic acid BY- Eagambaram Murugan ,Palaniappan Arunachalam & J Nimita Jebaranjitham Page-1327
- Template- free synthesis of hierarchical mesoporous carbon based on functional coal tar pitches with carboxylation and diketone structures BY- Haiyang Wang, Hongzhe Zhu, Debang Qi, Shoukal Wang & Kaihua Shen Page-1341

- Preparation and analysis of sodium carboxymethyl cellulose and its effect on xerophthalmia BY- Yingshuang Wang Chu- Yan Huang ,Rongrong Fu & Haiying Zhang Page-1348
- Tetrandrine derivatives IVa-IVd : Structural analysis and their inhibition rate against protein tyrosine kinase kinase and HL60 & A549 cancer cell lines BY- Chen Chen & Ye Lu*Page-1354
- Synthesis of ester derivatives of Rhein and their in vitro antitumor activities on cervical cancer cells BY- Wen Jin, Liang Chen, Fengyun Gao, Mei Yang, YanLiu & Bo Wang Page-1359
- Design synthesis and characterization of a disulphide appended sugar bis-triazole BY- P V BHavya, P Punithavathi & T Mohan Das Page-1364
- Breast cancer nutritional chemistry cachexia oncology –A clinical trials perspective BY- Savitha Swaminathan ,Yamuna Ramalingam ,Balu Ranganathan ,Jolius Gimbun ,S Muthumariappan & U Mani_ Page-1369

5. Indian Journal of Chemistry (Section) B

Website: www.niscair.res.in

ISSN-0376-4699

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Frequency- Monthly

Articles

- In silica and in vitro validation of some benzimidazole derivatives as adenosine deaminase inhibitors BY- Arun K G, Sharama C S, Abhithaj J & Sadasivan C Page-1175
- Potassium alum as a naturally mineral and economical catalyst for the one-pot, multi-component and clean synthesis of 2-oxo 1,2,3,4-tetrahydropyrimidines and N- aryl-3-aminodihydropyrrol-2-one 4- carboxylates BY- Farzanch Mohamadpour Page-1183
- Synthesis and biological evaluation of novel indolyi-dihydropyridin -3-carboxylate dihydro triazol pyridine -3-carboxylate and carbohydrazide derivatives BY- Prabhaker Walmik Page-1191
- Stereoselective synthesis towards trans-kumausyne employing vinylogous Mukaiyama type reaction on an a chloro sulfide BY- L Raju Chowhan & Sdagopan Raghavan Page-1199
- Assessing the effectiveness of different chiral and achiral phosphoric acids in presence of thiourea co-catalyst in co-operative organocatalytic stereoselective glycosylation reactions BY- Govind Pratap Singh , Raja Abirami & Anup Gurung Page-1206
- Construction of spiropyrans via photocycloaddition reactions its computational investigation BY- Saurabh Singh Rahul & R T Pardasani Page-1216
- An efficient regioselective synthesis of N- alkylated purine –triazole analogues BY- Chintan Pandit ,Mayank Pandya, yashwantsinh jadeja, jyoti Gohel & Khushal Kapadiya Page-1225

- 1,8-diazabicyclo undec -7-ene as a highly efficient bicyclic amidine catalyst promoted solvent-free and one –pot synthesis of 1H-pyrazolo phthalazine-5,10-dione derivatives BY- Farzaneh Mohamadpour Page-1234

6 Indian Journal of Experimental Biology

Website: www.niscair.res.in

Vol-(A6)58no-8 pp-503-592

August-2020

ISSN-0019-5189

Frequency - Monthly

Articles

- Zero Liquid Discharge as a sustainable technology –Challenges and perspectives BY- Anil V. Shah, Sunita Varjani , Vijay Kuamr Srivastava & Ashish Bhatnagar Page-508
- Enhanced intracellular translocation and cytokine profiling of gold nanoparticles conjugated with human papilloma virus based cell-penetrating peptide in cancer cells BY- Shikha Saxena, Satish Kumar ,Ashok K Tiwari & Pramod w Ramteke Page-515
- In vitro anticancer potential of Anaphyllum wightii Schott, against Dalton's lymphoma ascites cell lines and molecular docking studies of b-sitosterol BY- S Lekshmi & TS Swapna Page-522
- Efflux pumps and biofilm formation by both methicillin –resistant and methicillin – sensitive Staphylococcus aureus strains BY- Shifu Aggarwal & Durg Vijai Singh Page-527
- Functional evaluation of exopolysaccharide from Pseudozyma sp. NII 08165 revealed the potential thickening and emulsifying applicability BY-Kuttuvan Valappil Sajna, Rajeev Kumar Sukumaran, Lalitha Devi Gottumukala ,Sankar Sasidaran & Ashok Pandey Page-539
- Fumaric acid production from sugar cane trash hydrolysate using Rhizopus oryzae NIIST BY- Amith Abraham , Sulfiya K. Moideen Anil K Mathew Athira Raj SR , Raveenadran Sindhu, Ashok pandey , Byoung –In Sang & Rajeev K Sukumaran Page-548
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