CAS Bulletin

Science section

Volume: 2, Issue No.: 1, March 2017

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Prepared by
VIVA Library Team,
Tel.: 0250-2515278
E-Mail: Library@vivacollege.org
Website: www.vivacollege.org/library.aspx
# Library Usage Statistics

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<th>MONTH</th>
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<th>INTERNET</th>
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<td>March 2017</td>
<td>2222</td>
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![Bar chart showing library usage statistics for different months]
Event

“Marathi Rajbhasha Din”

The VIVA Library organized a “Theme Based Book Exhibition” from 27th February to 1st March, 2017 to commemorate the Birth anniversaries of Kusumagraja – Shree V. W. Shirawadkar (27th February) and Chatrapati Shivaji Maharaj (19th February).

27th February has been declared and celebrated as “Marathi Rajbhasha Din” on this occasion various books on Chatrapati Shivaji Maharaj and books by Kusumagraja – Shree V. W. Shirawadkar were displayed and promoted by the Library to create awareness about Marathi Language and its rich Heritage. During the inauguration, library organized the recitation of poems by Kusumagraja & Powada of Chatrapati Shivaji Maharaj.

A large number of students, faculty and other staff members visited the Book Exhibition and appreciated the initiative and efforts of Library staff for showcasing the rich collection of Books.
“Handwriting Competition”

On 23rd Feb 2017 a hand writing competition was organized by the library for Students, Teaching staff, and Non-teaching staff. In this event a large number (172) of students and faculty members participated enthusiastically. Out of these participants 3 best handwritings were selected in each category i.e. Students, Teaching staff, and Non-teaching staff. The winners were felicitated on 27th Feb. 2017 on the occasion of “Marathi Rajbhasha Din”

Winners of Handwriting Competition:

**Students:**
1st Manali Amre,
2nd Meghana Musale,
3rd Neeta Patil, & Sonali Deshmukh.

**Teaching staff:**
1st Ms. Deepa Dalvi,
2nd Ms. Glorita Parera,
3rd Ms. Gauri Vartak.

**Non-Teaching staff:**
1st Ms. Pankaja Murudkar,
2nd Ms. Yogita Vaze,
3rd Ms. Chandani Patil.
“Reader of the year”

VIVA Library started another best practice “Reader of the year” to encourage and motivate library users. The main objective is to develop great enthusiasm among readers for reading and use of library. The readers who have been using library consistently and regularly for last 1 year are recorded and analyzed from the library records to select top 3 readers of the year.

The following users were selected as “Reader of the Year” in different category.

**Students:**
1st Arun Yendre,
2nd Pavan Bholane,
3rd Pooja Mohite, & Purushottam Vaidya.

**Teachers:**
1st Ms. Harashavardhini Borwankar,
2nd Ms. Kavita Patil,
3rd Ms. Veronica Barla.

**Non-Teaching:**
1st Ms. Yogita Patil,
2nd Mr. Nandakumar Takkar,
3rd Vaishali Raut.
# New Arrival Books

## BIOTECH

<table>
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<tr>
<th>ACC.NO.</th>
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<td>BI1257</td>
<td>FRYXELL, GLEN E. / CAO, GUOZHONG</td>
<td>ENVIRONMENTAL APPLICATIONS OF NANOMATERIALS: SYNTHESIS, SORBENTS AND SENSOR'S</td>
<td>620.333/FRY</td>
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<td>BI1258</td>
<td>HARTL, DANIEL L. / RUVOLO, MARYELLEN</td>
<td>GENETICS: ANALYSIS OF GENES AND GENOMES</td>
<td>572.86/HAR</td>
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<td>BI1259</td>
<td>STARR, CECIE / TAGGART, RALPH / EVERS, CHRISTINE A</td>
<td>CELL BIOLOGY AND GENETICS</td>
<td>571.6/STA</td>
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<td>BI1260</td>
<td>PRIMROSE, S. B. / TWYMAN, R. M.</td>
<td>PRINCIPLES OF GENE MANIPULATION AND GENOMICS</td>
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<td>BI1261</td>
<td>MOUNT, DAVID W.</td>
<td>BIOINFORMATICS: SEQUENCE AND GENOME ANALYSIS</td>
<td>572.8/MOU</td>
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<td>BI1262</td>
<td>COOPER, GEOFFREY M. / HAUSMAN, ROBERT E.</td>
<td>THE CELL: A MOLECULAR APPROACH</td>
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<td>BI1263</td>
<td>LEWIN, BENJAMIN</td>
<td>GENES IX</td>
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## BOTANY

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<td>EVERT, RAY F.</td>
<td>ESAU'S PLANT ANATOMY</td>
<td>571.32/EVE</td>
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<td>PRINCIPLES OF MOLECULAR BIOLOGY</td>
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## CS AND IT

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<tr>
<td>BIT4927</td>
<td>LE HETLAND, MAGNUS</td>
<td>BEGINNING PYTHON: FROM NOVICE TO PROFESSIONAL</td>
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<td>BIT4928</td>
<td>BALAGURUSAMY, E.</td>
<td>NUMERICAL METHODS</td>
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<td>SATELLITE COMMUNICATIONS</td>
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<td>RIMATHI, H. / SRIRAM, H. / KRISHNAMOORTHY, A.</td>
<td>OBJECT ORIENTED ANALYSIS AND DESIGN USING UML</td>
<td>005.117/SRI</td>
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<td>FOSTER, L. S. / FOSTER, W. D.</td>
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<td>COM / DCOM PROGRAMMING HANDBOOK</td>
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<td>KOLMAN, BERNARD / BUSBY, ROBERT C. / ROSS, SHARON CUTLER</td>
<td>DISCRETE MATHEMATICAL STRUCTURES</td>
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<td>ELEMENTS OF DISCRETE MATHEMATICS</td>
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<td>DIGITAL FUNDAMENTALS</td>
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<td>KELKAR, S. A.</td>
<td>SOFTWARE PROJECT MANAGEMENT: A CONCISE STUDY</td>
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<td>BIT4941</td>
<td>BAYROSS, IVAN</td>
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<td>THORPE, EDGAR</td>
<td>COURSE IN MENTAL ABILITY AND</td>
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<td>MCI786</td>
<td>KUROSE, JAMES F. /ROSS KEITH W.</td>
<td>COMPUTER NETWORKING A TOP DOWN APPROACH</td>
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<td>MCI787</td>
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<td>AD HOC AND SENSOR NETWORKS: THEORY AND APPLICATIONS</td>
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## List of Journals

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<td>1</td>
<td>CSIR News</td>
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<td>Indian Journal of Experimental Biology</td>
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<td>Indian Journal of Chemistry Section A</td>
<td>Monthly</td>
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<td>Indian Journal of Chemistry Section B</td>
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<td>5</td>
<td>Indian Journal of Pure &amp; Applied Physics</td>
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<td>6</td>
<td>Journal of Scientific and Industrial Research</td>
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<td>7</td>
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Contents of Journal

1 CSIR News: Newsletter of the Council of Scientific & Industrial Research

Website: http://www.csir.res.in
ISSN: 0409-7467

Articles
Structural Behavior of Reinforced Geopoly-mer Concrete : CSIR-CBRI
Human Liver Cells Fight Stress By Shedding off Regulatory RNAs: CSIR- IICB

2 Indian Journal of Experimental Biology

Website: http://www.niscair.res.in; http://nopr.niscair.res.in
ISSN: 0019-5189

Articles
- Trans-4,4-Dihydroxystilbene (DHS) Protects PC 12 cells from oxidative damage but induces reactive oxygen species –mediated apoptosis in SHSY-5Y cell line BY- B Saha, M Subramanian , p Gupta , BS Patro , J Ray , SK bandyopadhyay & S Chattopadhyay .Page No-719
- Effect of Tocotrienol on medium dose ethanol –induced alternations in serum superoxide and peroxide handling capacities (SPHC) in rat BY- Pitchaiah Dasari & Prasunpriya Nayak * Page No-729
- Grape extract protects against ionizing radiation –induced membrane alterations in Red Blood Cells BY-Indrani Singha & Subir Kumar Das Page No-735
- Black tea extract Protects against γ-radiation –induced membrane damage of human erythrocytes BY- Arghya Modak , Arka Chakraborty & Subir Kumar Das Page No-745
- Antifilarial actions of green tea extract and a synthetic heterocyclic thiazolidine derivative Im8 compound in experimental mouse model BY- Sneha Hande , Kalpesh Goswami, Namdev Togre, Amisha Mandvikar & Maryada Venkata Rami Reddy *Page No-753
- Comparative evaluation of extract of Bacopa monnieri and Mucuna Pruriens as neuroprotectant in MPTP model of Parkinson’s disease BY-Babita Singh , Shivani Pandey , Rajesh Verma , Jamal Akhtar Ansari & Abbas Ali Mahdi* Page No-758
- Anticancer and Antioxidant activity of Zingiber officinalis Roscoe rhizome BY- Jamal Akhtar Ansari , Mohammad Kaleem Ahmad , Abdul Rahman Khan Nishat Fatima homa Jilani Khan namrata Rastogi , Durga Prasad Mishra & Abbas Ali Mahdi*Page No-767
- Identification of Anticancer and Antioxidant phytoconstituents from chloroform fraction of BY- Solanum nigrum L. berries using Gc-MS/MS analysis Homa Jilani Khan , Mohammad Kaleem ahmad Ahmad Abdul Rahman Khan , Namrata Rastogi, Abbas Ali Mahdi , Jamal Akhtar Ansari Nishat Fatima & GNV Satyanarayan .Page No-774
- Association of GSTTI and GSTMI Polymorphisms in South Indian Epilepsy Patients BY-Turaga Surya Prabha, Konda Kumaraswami & Vijay Kumar Kutala * Page No783
- Osteocalcin HindIII gene Polymorphism not associated with bone mineral density –A study in North Indian Postmenopausal osteoporotic women BY-IsrarAhmad ,Tabrez Jafar, Farzana

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2.1 Indian Journal of Experimental Biology
Website: http://www.niscair.res.in; http://nopr.niscair.res.in ISSN: 00195189

Articles

- Russell’s viper venom induced neurotoxicity, myotoxicity, and hepatotoxicity; Neutralization with gold nanoparticle conjugated 2-hydroxy benzoic acid (GNp-HMBA) in vivo BY-Kalyani saha & Antony Gomes Page No -7
- Recurrent chromosomal translocations Is proximity a rule BY- Fulesh Kunwar, Kiran Tandel & Sonal R Bakshi *Page No-15
- Effect of Tinospora cordifolia (Guduchi) on the phagocytic and pinocytic activity of murine macrophages in vitro BY- Priti More & Kalpana Pai * Page No-21
- Neuroparmacological investigations on Actaea acuminate Wall ex Royle Roots BY- Dipak Biswas, Deepak Kumar & Suresh Kumar *Page No-27
- Effect of discrete (individual) and Mixed (bulk) genomic DNA on genetic diversity estimates and Population structure in Teak (Teatona grandis L. f.) ?by-Naseer Mohammad, Shashank Mahesh, Yogesh Kumar Jain & SA Ansari Page No 44

2.2 Indian Journal of Experimental Biology
Website: http://www.niscair.res.in; http://nopr.niscair.res.in ISSN: 00195189

Articles

- Mitochondrial membrane-bound activity of arginase is independent of nitrogen excretion pattern in ureogenic and non-ureogenic vertebrates BY- Mishra Suman & Mishra Rajnikant *Page No-74
- Isolation ,proliferation characterization and in vivo osteogenic potential of bone -Marrow derived mesenchymal stem cells (rBMSC) in rabbit model BY- Ninu AR ,Swapan Kumar Maiti, Shiva Kumar MÚ , Sandeep Kumar ,Sangeetha p, Deepika Kritianiya, saurabh Gupta, Abhisek Saxena & Naveen Kumar * Page No-79
- Anti-inflammatory activity of cyclo-oxygenase2 inhibitory anionic protein fraction from Lamellidens Marginalis BY-Mousumi Chakraborty , Sourav Bhattacharya, Madhura Bose, Saumya Kanti Sasmal ,Mradu Gupta & Roshara Mishra *Page No-88
- Topical Application of Salvia officinalis hydroethanolic leaf extract improves wound healing Process BY-Sirvan Karimzadeh & Mohammad Reza Farahpour .Page No-98
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• In vitro screening of calli of mungbean to cercosporin, aphotoacatived toxin BY- Prabhar Kumar , Ramesh Chand , vineeta Singh & chhattar pal *Page No-113

2.3 Indian Journal of Experimental Biology
Website: http://www.niscair.res.in; http://nopr.niscair.res.in ISSN: 00195189
Vol.,55 No. 3 pp.127-196 MARCH -, 2017 Frequency:Monthly

Articles

• Dietary ginger improvers glucose dysregulation in a long term high fructose fed Prediabetic rat model BY- Natarajan Saravanan , Madhoosudhan Ananth patil , putchcha Uday Kumar , Palla Suryyanarayana & Geerreddy Bhanuprakash Reddy *Page No-142

• Antioxidant, photosynthesis and growth characteristics of plants grown in high sulphur coal mine overburden BY- Hari prasanna Deka Boruah * Page No-151

• Isolation of bacterial strains Possessing nitrogen – fixation , potassium- Solubilization and their inoculation effects on sugarcane BY- Ramachandran Muthukumarasamy,Gopalakrishan Revathi , Muthiayan Vadivelu & Kannan Arun *Page No-161

• In vitro Flowering in Bambusa bambos (L.) voss, an anatomical perspective BY- Rama Sisodid & I Usha Rao .Page No-171

• RAPd analysis of long term micropropagated rootstock plants of Apple Malling 7 BY-M Modgil , S Parmar & N Prabha Negi Page No -178

• Synergistic effect of silver nitrate and coconut water on shoot differentiation and Plant regeneration from cultured cotyledons of Capsicum annuum L. BY- JB Mythili, PR Rajeev, G Vinay & A Nayeem *Page No-184

3 Indian Journal of Chemistry : Section A - Inorganic, Bio-inorganic, Physical, Theoretical & Analytical
Website: http://www.niscair.res.in; http://nopr.niscair.res.inISSN:0376-4710

Articles

• Co(II) complex of 2- amino -6- methylbenzothiazole Synthesis structure and biological : evaluation BY- S Jone Kirubavathy , R Velmurugan , R Kärvenbu , N S P Bhuvanesh , I V M V Enoch, P Mosae Selvakumar & S Chitra *Page -1297

• Crystal structures and biological evaluation of Cu(II) complexes with 3- ethyl -2- acetylpyrazine N (4) isopropylthiosemicarbazone BY- Xiuqin Ma Taofeng Zhu,
weina wu, Pandong Mao, Lei Jia, Yuan wang, Zhen wang ying Hou Zhihong Cao, Hong chen Jing Xie, Xinnan Gu, Tieliang Ma *Page- 1305

- Interaction studies in binary liquid mixtures of ether and alcohols at different temperatures BY- Gyan praksh Dubey * Krishan Kumar * Page 1314

- Electrochemical impedance spectroscopy of homo and copolymer of aniline and 2,4-dinitrophenol in a binary electrolyte system BY- Ali Parsa Ebtesam Sobhani, Azadeh Shakeri & Farnoush Fridod *Page -1325

- Interaction of with some group II and III elements BY-lemi Turker*Page -1334

- Synthesis structure, spectral and theoretical studies of an organic decachlorotricadmate( II) BY- Melek Hajji & Taha Guerfel Page -1342

- Green synthesis of CuO/ MCM-41 nanocomposite by solid state reaction: Characterization and antibacterial activity BY- Monireh Ziksari & Afshin Pourahmad* Page 1347

3.1 Indian Journal of Chemistry : Section A - Inorganic, Bio-inorganic, Physical, Theoretical & Analytical

Website: http://www.niscair.res.in; http://nopr.niscair.res.in  ISSN:0376-4710  

**Articles**

- DAN binding cytotoxicity and mitochondria – mediated cell apoptosis induction of a new zinc (II) complex of 5- chloro- 8- hydroxylquinoline BY- Hai –Rong Zhang, Ting meng, Qi-Pin Qin, Sheng –Ping Deng, Qian-Qian Cao, Hong- Hua Han, Ying- Bo Li, Yun –Liang Zhang, Yan- Cheng Liu, & Hong Liang Page – 1433

- Investigations on the binding behavior of competitive ions to a cationic micelle by H –Nmr studies By-Nzima Sultana Page – 1443

- Catalytic oxidation of cyclohexene by a-zirconium phosphate intercalated Mn (Salen) using 70% tert – bityl- hydroperoxide as an oxidant BY- S Khare, R Chokhare, P Shrivastava, J S Kirar & S Parashar Page – 1449

- Determination of the azo dye, sunset yellow, by using carbon paste electrode modified with molecularly imprinted polymer BY- Zhihua wang, Yijiang Shan, Xu, Guofan wu & Xiaoquan Lu,,Page – 1458

- Catalytic synthesis of benzimidazole derivatives over Modified forms of zirconia BY- T E Mohan Kumar, S Z Mohamed Shamshuddin, Venkatesh & S Reena Saritha . Page – 1465

- Cloud point extraction with mixed micelles of TX- 114/DOSSand derivative spectrophotometry for simultaneous determination of Fe and Co using 2,2,6,2’ terpyridine BY- K Ravi Kumar & P Shyamla . Page – 1471
3.2 Indian Journal of Chemistry : Section A - Inorganic,Bio-inorganic, Physical, Theoretical & Analytical

Website: http://www.niscair.res.in; http://nopr.niscair.res.in ISSN:0376-4710

Articles

- DFT study for radical capture by mitochondria oxidotoxin protective ionic and non-ionic amphiphilic a pheny N–t-buty nitrone derivatives BY- Stapa Mandal & Nivedita Acharjee Page – 09
- Thermophysical, excess and transport Properties of organic solvents with imidazolium based ionic liquids BY-Akanksha Saini, Aditya Harshvardhan & Ranjan Dey Page – 21
- Improved Photocataytic performance of (Zno/Tio2) CD on decolorization of brilliant green dye under UV light irradiation BY- P Velusamy & g Lakshmi Page – 43
- Synthesis and characterization of gadolinium tungstate doped zinc oxide photocatalyst BY-Kuppulingam Thirumalai, Manohar Shanthi & Meenakshisundaram Swaminathan. Page – 50
- A comparative study of the photocatalytic properties of CuS nanotubes and nanoparticles by hydrothermal method. BY- Xuyan You Xiaohong Geng, XiuE Liu, Yang Yu & Zhihong Jing Page – 57
- Nitrogen doped graphene supported pt-pd nanoparticle modified Gc electrode for electrochemical setermintion of tramadol and paracetamol BY- Janakiraman Manokaran, Jonna Nareendranath Rethinasabapathy Muruganantham & Nateshan Balasubramanian *. Page -63

3.3 Indian Journal of Chemistry : Section A - Inorganic,Bio-inorganic, Physical, Theoretical & Analytical

Website: http://www.niscair.res.in; http://nopr.niscair.res.in ISSN:0376-4710

Articles

- A rare case of 2D+1D 2D Cd (II) coordination polymer without any entanglements : Synthesis, structure and luminescent property BY-Meiling Cheng, Enjing Zhu, Yanpeng Zhang, Shen Wang, Qi Liu, Qun Chen, & Mingyang He Page – 203
- Synthesis, spectroscopic properties and theoreties and theoretical calculations on methylene bridged 1,8-naphthyridine ligands and copper (I) complex through a non catalyst c (so) H methylenation BY- Gao, -Zhang Gou, Bo Zhou, Xue –Bing Chen, xue- Quan Wang, Chao-Yong Mang, Wei liu Shao-Ming Chi Page – 211
• H- beta zeolita catalysed synthesis of N-benzylbenzamide from benzonitrile and benzyl alcohol BY- Kalpeshgiri A Gosai, Adarsh S Bhatt, Mihir R Belani, R S Somani & H C Bajaj Page – 220

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4 Indian Journal of Chemistry: Section B-Organic including Medicinal

Website: http://www.niscair.res.in; http://nopr.niscair.res.inISSN: 0376-4699

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