

**CONTENT****REVIEW ARTICLE**

- **Synthon Approach in Designing Organic Synthesis**  
*A. A. Kulkarni, S. R. Doshi, R. K. Nanda and N. R. Chatterjee*..... 01
- **Cavity Ring down Spectroscopy: A Review**  
*P Nagaraju, VDN Srinivas, SVN Padma, PNV Gopal and D Mallikarjuna Rao*..... 04
- **Microwave Chemistry: A Review**  
*Deepali Gharge, Pallavi Salve, Chandrakant Raut, Kundan Pawar and Pandurang Dhabale*..... 09

**RESEARCH ARTICLE**

- **Development and Validation of Spectrophotometric Method for Simultaneous Estimation of Tramadol Hydrochloride and Paracetamol from their Combined Dosage Form.**  
*Paresh B. Shah and Boni B. Shah* ..... 17
- **Chemical Investigation of *Polygonatum verticillatum***  
*Rakesh Saini, Saurabh Chaturvedi, M. Shahar Yar, H. P. Bhartiya and Pratibha Singh*..... 20
- **Synthesis and Evaluation of Pyrrole Derivative Conjugates of Aspirin as Anti-Platelet Agents**  
*Saurabh Chaturvedi, Rakesh Saini, AN Kesari, Awani Rai, Neelotma Maurya and M Shahar Yar*..... 22
- **Estimation of Rosiglitazone in Bulk and Tablet Dosage Forms by HPTLC Method.**  
*Meeta A Jiladia, SS Pandya, Ashok G Jiladia and Viidyasagar G*..... 26
- **Synthesis and Anti-inflammatory Activity of Some New 2-Amino – 4, 6, Diaryl Pyrimidines**  
*B. Ramesh, R.N. Umashankar and S. Babitha* ..... 29
- **HPTLC analysis and Phytochemical Investigation of Leaves of *Euphoria longan***  
*M Nagarajan, AJM Christina, P Devi and R Meera*..... 31
- **Synthesis and Biological Activity of N-(1-Alkyl-4-Phenyl-6-Thioxo-1, 6-Dihydro-1, 3, 5-Triazine-2-Yl)-N-Arylidine Hydrazine**  
*SN Pandeya, Vaishali Mishra, Alka Pandey and Ritu Srivastava*..... 36
- **Development Studies of Biodegradable Pressure Sensitive Adhesives from Groundnut Oil and Butylmethacrylate**  
*S Begila David and G Allen Gnana Raj*..... 40
- **Synthesis and Biological Evaluation of Some Novel 2-Aminobenzothiazole Derivatives as Potential Analgesic Agents**  
*Pankaj Gupta, Hardwari Lal Yadav, G. Garg, R.S. Pawar, U.K. Patil and P.K. Singour*..... 47
- **Phyto-Physico Chemical Evaluation of Leaves of *Cocculus hirsutus***  
*P Devi, R Meera, R Muthupandi, Ragumathi and D Dinesh Babu*..... 51
- **Estimation of Tadalafil in Bulk and in Formulation by UV-Visible Spectrophotometry**  
*K Anandakumar, K Varadharajan, R Subathrai, D Jothieswari and G Sivan Seyal*..... 54
- **Estimation of Gatifloxacin in Tablet Dosage Form by Spectrofluorimetric Method.**  
*Meeta A Jiladia, SS Pandya and Ashok G Jiladia*..... 58
- **HPTLC Method for Simultaneous Determination of Pioglitazone HCl and Telmisartan in Tablet Dosage Form**  
*P Kalaiselvi, R Vijay Amirtharaj, T Venkatachalam and N Senthil Kumar*..... 60

|   |   |     |
|---|---|-----|
| • | <b>Validated RP-HPLC Method for the Estimation of Eszopiclone in Bulk and Tablet Dosage Form</b><br><i>K Anandakumar, G Kumaraswamy, T Ayyappan, ASK Sankar and D Nagavalli</i> .....   | 63  |
| • | <b>Synergistic Efficacy of Lichen Extracts and Silver Nanoparticles against Bacteria Causing Food Poisoning</b><br><i>SV Praveen Kumar, TR Prashith Kekuda, KS Vinayaka and M Yogesh</i> .....  | 67  |
| • | <b>Physico-Chemical Study of Surfactant- Crown Ether Inclusion Complexes</b><br><i>Rajni Garg and R.D. Singh</i> .....  | 71  |
| • | <b>Quercetagenin Glycoside from the Flowers of <i>Bombax ceiba</i></b><br><i>N Sampath Kumar and G Madhurambal</i> .....  | 78  |
| • | <b>Myricetin Glycoside from the Flowers of <i>Hibiscus cannabinus</i></b><br><i>N Sampath Kumar, G Madhurambal and Joan Marina</i> .....  | 81  |
| • | <b>Simultaneous Estimation of Metformin Hydrochloride, Rosiglitazone Maleate and Glimepiride in Pharmaceutical Dosage Forms by RP-HPLC Method</b><br><i>Chetan Ramolia, Zarna Dedania, Ronak Dedania, Sheth NR, G Vidya sagar, Bhavna Patel and Bhatt KK5</i> ..... | 83  |
| • | <b>Validated Spectroscopic Method for Estimation of Aceclofenac from Tablet Formulation</b><br><i>Deepali Gharge, Pallavi Salve, Chandrakant Raut, Chottaram Seervi, Kundan Pawar and Pandurang Dhabale</i> .....   | 87  |
| • | <b>Synthesis of Some Novel Substituted Pyrazole Based Chalcones and Their In-Vitro Antimicrobial Activity</b><br><i>Bhaskar S. Dawane, Baseer M Shaikh, Namdev T. Khandare, Gajanan G. Mandawad, Santosh S. Chobe and Shankaraiah G. Konda</i> .....                | 90  |
| • | <b>Simultaneous Spectrophotometric Estimation of Diacerein and Aceclofenac by Vierodt's Method and First Derivative Method</b><br><i>Bhalerao SB, Tambe SR, Pareek V, Shinde RH and Gupta LR</i> .....  | 94  |
| • | <b>Removal of Sulfate from Water Using Polyaniline and Its Composites</b><br><i>Vahid Babaei, Hossein Eisazadehand Ali Mahdavi</i> .....  | 98  |
| • | <b>Microbiological and Physico-Chemical analysis of Ground Water from Thane-Belapur Industrial Area, Mumbai, India</b><br><i>Archana Chapolikar, Jagdish Bharad, Balaji Madje and Milind Ubale</i> .....  | 102 |
| • | <b>Synthesis and Antioxidant Potential of Novel 2-Isoxazole Substituted Chromenones Synthesized by Microwave Irradiation</b><br><i>Deepthi Dongarwar Inamdar, Afeez M Dinakaran, Vadiraj D Kurdekar and Hemant R Jadhav</i> .....                                   | 106 |
| • | <b>Photo-oxygenation of Adenosine by Singlet Molecular Oxygen in Different Conditions</b><br><i>Shubha Jain, Archana Kushwah, Pradeep K. Paliwal and Neelaiah Babu G</i> .....  | 110 |
| • | <b>Synthesis and Anti-Inflammatory Activity of 2-Amino Substituted Benzothiazoles</b><br><i>Shashikant R Pattan, VD Pujar, Nachiket S Dighe, Deepak S Musmade, SN Hiremath3, HV Shinde and RB Laware</i> .....  | 113 |
| • | <b>Synthesis of Some Novel Coumarino Benzimidazoles Derivatives for Anti-Inflammatory Screening</b><br><i>Jacob Jincy, Dey Tathagata, Ghate Manjunath and Baby Shaji3</i> .....   | 116 |
| • | <b>Synthesis and Biological Evaluation of Amides of Amino-thiazole Derivatives</b><br><i>AK Prajapati and Vishal P Modi</i> .....   | 121 |
| • | <b>Synthesis and Antidiabetic Activity of Some New Benzopyrone Derivatives</b><br><i>Shashikant R Pattan, Nachiket S Dighe, Deepak S Musmade, Vinayak M Gaware, SG Jadhav, Medha A Khade and SN Hiremath</i> .....  | 126 |
| • | <b>RP HPLC Determination of Amlodipine in Its Pharmaceutical Dosage Forms</b><br><i>Amrisha Sharma, Mukul Tailang, Bhaskar Gupta and Ashish Acharya</i> .....   | 129 |
| • | <b>Evaluation of <i>Vitis vinifera</i> as a Corrosion Inhibitor for Mild Steel in 1 M HCl</b><br><i>R Saratha, P Thilagavathy and N Kasthuri</i> .....  | 132 |
| • | <b>Synthesis and Antioxidant Activity of Some Flavone Derivatives</b><br><i>Chandras N Khobragade, Ragini G Bodade and Anand V. Manwar</i> .....  | 139 |
| • | <b>New Simple UV Spectrophotometric Method for Estimation of Almotriptan Malate in Bulk and Pharmaceutical Dosage Forms</b><br><i>A Suneetha and B Syama Sundar</i> .....   | 142 |

|   |   |     |
|---|---|-----|
| ● | <b>Synthesis and Spectral Studies of Ester Prodrugs of Ibuprofen</b><br><i>Surender Kumar and DK Tyagi</i> .....  | 145 |
| ● | <b>Estimation of Levetiracetam in Tablet by UPLC.</b><br><i>Patel Vandana B, Bhallara Harshvardhan and Patel Bhumika M</i> .....  | 148 |
| ● | <b>UV Spectrophotometric Determination of Risperidone in Bulk and Its Formulation</b><br><i>Kathirvel S, Devala Rao G and Satyanarayana SV</i> .....  | 151 |
| ● | <b>An Efficient One Pot Synthesis of Fused Pyrazolo [3', 4':4, 5]Pyrimido[2,1-b][1,3] Benzothiazole and its 2- Substituted Derivatives</b><br><i>Sambhaji P Vartale, Vijay N Bhosale, Jagannath S Jadhav, and Sharad V Kuberkar</i> .....                                 | 154 |
| ● | <b>HPTLC Method Development and Validation for the Estimation of Trandolapril in Bulk and Its Formulations</b><br><i>M Rama kotaiah, B Ganesh, KB Chandra Sekhar, Shaik Harun Rasheed, Y Venkateswarlu and B Dhandapani</i> .....   | 158 |
| ● | <b>An Efficient One Pot Synthesis of Substituted Derivatives of Pyrimido Benzothiazole</b><br><i>Vijay N Bhosale, Sambhaji P Vartale, Sarla N Kalyankar, Jagannath S Jadhav and Sharad V Kuberkar</i> .....   | 161 |
| ● | <b>Synthesis and Pharmacological Evaluation of Atypical Antipsychotic Activity of New Coumarinoacetamides</b><br><i>Sanjib Das, SH Bhosale and Ashish A Gawai</i> .....   | 166 |
| ● | <b>UV Spectrophotometric Determination of Norethisterone in Tablets</b><br><i>Rama Chandra Reddy. A, Roshna. K, P. Mohanraj, Kulanthavel. T. M, Saravanan.V. S and Ganesh. V</i> .....  | 172 |
| ● | <b>Spectrophotometric Estimation of Rizatriptan Benzoate</b><br><i>Vivek Rajendra, Amol Khedkar, Alpana Kulkarni, Mohd. Hassan G Dehghan, Maria Saifee and Swaroop Lahoti</i> .....   | 175 |
| ● | <b>Simultaneous Determination of Sodium Benzoate and Potassium Sorbate Preservatives in Foodstuffs Using High-Performance Liquid Chromatography</b><br><i>Antakli S, Alahmad A and Badingki H</i> .....   | 178 |
| ● | <b>The Use of Gambier Extracts from West Sumatra as a Green Inhibitor of Calcium Sulfate (CaSO<sub>4</sub>) Scale Formation</b><br><i>Suharso, Buhani, Syaiful Bahri and Teguh Endaryanto</i> .....   | 183 |
| ● | <b>Development and Validation of Spectrophotometric Method for the Estimation of Lopinavir and Ritonavir in Tablet Dosage Form</b><br><i>Ilangovan Ponnilaravasan, Aiyalu Rajasekaran, Joghee Gowder Dharuman, Duraisamy Kalaiyarasi and Duraisamy Krishnakumar</i> ..... | 188 |
| ● | <b>Development and Validation of an HPLC Method for Analysis of Gemifloxacin in Human Plasma</b><br><i>GVH Raju, S Ganapathy, DG Sankar and PY Naidu</i> .....  | 192 |
| ● | <b>Development and Validation of Reverse Phase High Performance Liquid Chromatography Method for the Estimation of Pravastatin Sodium in Tablet Dosage Form.</b><br><i>DB Doshi and PA Bhatt</i> .....  | 197 |
| ● | <b>Simultaneous UV Spectrophotometric Method for Estimation of Amlodipine Besylate and Lisinopril in Tablet Dosage Form</b><br><i>Pallavi Salve, Deepali Gharge, Rupali Kirtawade, PN Dhabale, and KB Burade</i> .....  | 201 |
| ● | <b>Stabilization of Gamma -Sterilized EPDM by Synergistic Mixtures of Food- contact approved Stabilizers</b><br><i>Sameh AS Alariqi</i> .....   | 205 |
| ● | <b>Nickel(II) Selective Poly(Vinyl Chloride) Membrane Electrode Based on Novel Macrocyclic Compound 11,14-Diaza-4,7-Dioxo-2(3),8(9)-Dibenzoyl-Cyclotetradeca-10,14(1)-Diene as Neutral Carrier</b><br><i>Susheel Kumar Sindhu, Sunil Kumar, and LR Singh</i> .....        | 214 |
| ● | <b>First Derivative Spectrophotometric Determination of Hostacycline and Oxytetracycline – Applications</b><br><i>A. Raghavendra Guru Prasad and V. Suryanarayana Rao</i> .....   | 220 |
| ● | <b>A Validated Reverse Phase HPLC Method for the Simultaneous Estimation of Atorvastatin Calcium and Ezetimibe in Pharmaceutical Dosage Forms</b><br><i>P Nagaraju, Z Vishnu Vardhan and JVLN Seshagiri Rao</i> .....   | 225 |
| ● | <b>Potentiometric Determination of Heavy Metals Concentrations in Trace by Using Calixarene as Electroactive Materials</b><br><i>Susheel Kumar Sindhu, Yogender Singh and Reetu Singh</i> .....   | 229 |

