CHENRAJ ROYCHAND CENTRE FOR CRIMINOLOGY & FORENSIC STUDIES

Students Publication Details

Sl No	Title of the article	Authors	Status	Photo
1	Synergistic doping strategies boosting electrochemical performance: GO-Y2O3: Eu3+/ Li+nanocomposites for supercapacitor and biosensor applications, **Inorganic Chemistry Communications, Impact factor-5.4, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B.R. Radha Krushna, Puneeth, • R. Sowjanya, • V. Sureka Varalakshmi, • Samir Sahu, • B. Sargunam, • H. Nagabhushana, • B.E. Kumara Swamy, • **Mithra Shankar (2023-2025) batch.**	Published	
2	Unveiling the prospects of Y2O3-based nanocomposites: Synthesis, characterization, and electrochemical assessment for supercapacitor and biosensor applications, **Materials Today Communications, Impact factor - 4.5, Q2**	• S.C. Sharma, • Nandini Robin Nadar, • J. Deepak, • B.R. Radha Krushna, • Puneeth, • R. Sowjanya, H. Nagabhushana, • Augustine Georgee, C. • Krithika, • Subhashree Ray, • S. Priyadharshini, D.G. • Anand, • **U. Harshitha (2023-2025) batch.**	Published	
3	Graphene oxide based Gd2O3:Eu3+nanocomposites: A multifaceted approach to advanced energy storage and bio sensing applications, **Inorganic Chemistry Communications, Impact factor-5.4, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B.R. Radha Krushna, • Puneeth, • R. Sowjanya, • V. Sureka Varalakshmi, • Samir Sahu, • B. Sargunam, • H. Nagabhushana,	Published	

		• B.E. Kumar Swamy, • **S.S. Ruthwik (2023-2025) batch.**		
4	Enhanced Electrochemical and Sensing Performance of Dysprosium-Doped $CdSiO_3$: A Promising Material for Supercapacitor and Biosensor Applications, **Materials Science and Engineering: B,Impact factor-4.6, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • Akila K, • Anitha R, • Swathi Mishra, B.Sargunam, • I.S. Pruthviraj, H. • Nagabhushana, • **Kunal S Jain (2023-2025) batch.**	Published	
5	Synergistic Modification of Carbon Paste Electrodes with La2O3:Tb3+ for Sensitive and Selective Dopamine Detection, **Journal of the Indian Chemical Society, Impact factor- 3.4, Q2**	• Prateesh Ravindran, • Nandini Robin Nadar, • J. Deepak, • Shanmugapathy M, S.C. Sharma, • B. R.Radha Krushna, • Subhashree Ray, • Subha V.J, • **Nandana D Shenoy**	Published	

6	Development of Tb-Doped CdSiO3 Nanomaterials for Selective Uric Acid Detection and Superior Energy Storage using electrochemical approach, **Materials Science and Engineering: B,Impact factor-4.6, Q1**	• J. Deepak, • Nandini Robin Nadar, • S.C. Sharma, • B. R. Radha Krushna, • Saravana Kumar, • Burnice Nalina Kumari, • Swathi Mishra, • B.Sargunam, • I.S. Pruthviraj, • H. Nagabhushana, • **Samiksha Vyasa Murthy Bhat (2023- 2025).**	Published	
7	Innovative Approach to Dopamine Biosensing Using Potassium - Incorporated Eu-doped $BaTi_2O_3$ Nanomaterials, **Materials Science and Engineering: B,Impact factor-4.6, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • Vignesh R, • Subhashree Ray, • Father Augustine,	Under Review	

		• Ganesh Kumar D, • Lambodaran Ganesan, • Ravi Kumar R,H. • Nagabhushana, • B. K. Das, • **Hitesh P (2023-2025).**		
8	Development of Modified Carbon Paste Electrodes with Dy-Doped $GdAl_2O_3$ for Enhanced Dopamine Sensing, **Inorganic Chemistry Communications, Impact factor-5.4, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • Aishwarya, • Burnice Nalina Kumari, • Chandan Dash, • Thangamani K, Dr.B.K.Das, • H. Nagabhushana, • Ravi Kumar R, • **Rutthvi T (2023-2025).**	Under Review	
9	Fe-Doped $Sr_2MgSi_2O_7$ Nanoparticles: A Novel Approach for Sensitive and Stable Dopamine Detection, **Journal of Industrial and Engineering Chemistry, Impact factor-6, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • Bhargav Kiran Gaddam, • Swati Mishra, • Father Augustine, • Saravana Kumar S, • Jaiganesh Inbanathan, • H. Nagabhushana, • B. K. Das, • Ravi Kumar R, • **Preetham Pai (2023-2025).**	Under Review	
10	Novel Carbon Paste Electrodes Modified with Li^{+}-Eu^{3+} Doped $BaTiO_3$ for Sensitive Dopamine Detection, **Journal of Physics and Chemistry of Solids, Impact factor-4.9, Q1**	• Thangamani K, • Nandini Robin Nadar, • J. Deepak, • Vickneshwaran V, • S.C. Sharma, • B. R. Radha Krushna, • Srikanth Sahu, • K. Ponnazhagan, • **Chirag G Sharma (2023-2025).**	Under Review	

11	Copper-Doped $NiAl_2O_4$ Nanoparticles for Enhanced Electrochemical Dopamine Sensing: A Novel Approach for Biosensor Development, **Journal of the Indian Chemical Society, Impact factor- 3.4, Q2**	• K. Manimekalai, • Nandini Robin Nadar, • J. Deepak, Santhanalakshmi P, • S.C. Sharma, • B. R. Radha Krushna, • Samir Sahu, • Akila K, • **Kiran Kumar V**	Under Review	
12	Synergistic effectiveness of europium-doped La(OH)3 Nanoparticles in supercapacitors and dopamine quantification using Electrochemical Approach, **Journal of Physics and Chemistry of Solids, Impact factor-4.9, Q1**	• Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • Aishwarya S, • Jaiganesh Inbanathan, • Swathi Mishra, • B.Sargunam, • I.S. Pruthviraj, • H. Nagabhushana, • **Prabhanjan M**	Under Review	
13	Tb doped SrAl2O4 Functionalized Electrode as a Sensitive Platform for Electrochemical Uric Acid Quantification, **Materials chemistry and physics**, **Impact factor-4.7, Q1**	• Nandini Robin Nadar, • Somanath Sharma. S • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S. Pruthviraj, • Suren Dash, • Meyyammai C.T, • Asha K S, • Protyusha GB, • H. Nagabhushana, • **Risha Raveendra**	Communicated	
14	Enhancing Biosensing Performance: Co-Doped ZnO Nanomaterials for Selective Detection of Dopamine. **Materials Science and Engineering: B,Impact factor-4.6, Q1**	• Murugesan S, • Aashish A, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S. Pruthviraj, • Monisha D, • Srikant Sahu, • Lambodaran Ganesan, • H. Nagabhushana, • **Surabhi Yogananda**	Communicated	

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15	Enhanced Dopamine Sensing via Chromium Doped ZnO Modified Electrodes: A Selective and Stable Electrochemical Approach, **Materials chemistry and physics**, **Impact factor-4.7, Q1**	• K. Ponnazhagan, • Nagarajan K, • Nandini Robin Nadar, • J. Deepak • S.C. Sharma, • B. R. Radha Krushna, • I.S. Pruthviraj, • Swathi Mishra, • Burnice Nalina Kumari, • Lanord Stanley Jawahar M, • H. Nagabhushana, • **A. S. Sahana**	Communicated	
16	Electrochemical Evaluation of Green-Synthesized Fe_2O_3 Nanostructures for Sensitive and Selective Dopamine Detection, **Microchemical Journal**, **Impact factor-5.1, Q1**	• Tullanithi K M, • Anitha R, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, I.S.Pruthviraj, • Jayannan J, • Suganya K, • H. Nagabhushana, • **Nidhi Satish**	Communicated	
17	Development of a Robust Gd-TiO_2-Based Electrochemical Sensor material for Uric Acid sensing, **FlatChem, Impact factor-5.9, Q1**	• Kalyana Ram Kone, • Suvarna P, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Burnice Nalinna Kumari, • Tullanithi K M, • Father Augustine, • Bhargav Akkinepally, • H. Nagabhushana, • **Mytri M S**	Communicated	
18	Electrochemical Detection of Uric Acid Using Copper-Doped Zinc Oxide Modified Electrodes for Biomedical Sensing Applications, **Journal of industrial engineering and chemistry**, **Impact factor-6, Q1**	• Rishi Kumar, • Meyyammai C. T, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Protyusha G B,	Communicated	

		Santhoshakumari T.M, • Father Augustine, • H. Nagabhushana, **Siddanth Satish**		
19	Electrochemical Sensing of Uric Acid Using Zn-Doped MnO_2 Nanoparticles: Enhanced Sensitivity, Selectivity, and Stability, **Materials Science and Engineering: B**, **Impact factor-4.6, Q1**	• K Ponnazhagan, • Somanath Sharma S, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Lambodaran Ganesan, • Niranjan Raja, • Bhargav Akkinepally, • H. Nagabhushana, • **Nilesh Patel**	Communicated	
20	Manganese-Doped CuO Nanoparticles-Based Electrochemical Sensor for Sensitive and Selective Uric Acid Detection in Biomedical Applications, **Materials chemistry and physics**, **Impact factor-4.7, Q1**	• Jayannan J, • Suganya K, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Anitha R, • Rishi Kumar V, • H. Nagabhushana, • **Likitha Gowda**	Communicated	
21	Electrochemical Detection of Uric Acid Using La-Doped CuO nanomaterial: A Robust Sensor with Superior Sensitivity, **Inorganic Chemistry Communications**, **Impact factor-5.4, Q1**	• Sivayogana R, • Asha K S, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Protyusha G B, • Nagarajan K, • H. Nagabhushana, • **Ullas R**	Communicated	
22	Multifaceted Application of Er-Doped CeO_2: Electrochemical Detection of Uric Acid and Latent Fingerprint Development, **Microchemical Journal**, **Impact factor-5.1, Q1**	• Sripadha R, • Sasidharan S , • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna,	Communicated	

		• I.S.Pruthviraj, • Subhashree Ray, • Anitha R, • Shayilendranath V, H. Nagabhushana, • **Nilesh Patel**		
23	A Robust and Selective Electrochemical Sensor for Uric Acid Using Ce:ZrO_2 Modified Carbon Paste Electrode, **Journal of Physics and Chemistry of Solids**, **Impact factor-4.9, Q1**	• Shayilendranath V, Jayannan J, • Nandini Robin Nadar, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Anitha R, • Vignesh R, • H. Nagabhushana, • **Chavi Balar**	Communicated	
24	Gd-Doped ZnO Modified Electrode for Selective Dopamine Sensing: Enhanced Electrocatalysis and Interference Discrimination at Physiological pH, **Materials Chemistry and Physics**, **Impact factor-4.7, Q1**	• Nandini Robin Nadar, • Jayannan J, • S.Sumathi, • J. Deepak, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Anitha R, • Samir Sahu, • Augustine George, • Arun Prakash T, • H. Nagabhushana, • **Tanish J**	Communicated	
25	Combustion-Synthesized Mg-ZnO Nanomaterial as a Robust Dopamine Sensor: Enhanced Electron Transfer and Sensitivity, **Materials Science and Engineering: B**, **Impact factor-4.6, Q1**	• J. Deepak, • K. Ponnazhagan, • Jitu V Thomas, • Nandini Robin Nadar, • S.C. Sharma, • B. R. Radha Krushna, • I.S.Pruthviraj, • Lambodaran Ganesan, • Sameer Sahu, • Augustine George, • Saradha S, • H. Nagabhushana, • **Chahat Chhajer**	Communicated	

26	Dy-Doped NiO-Modified Carbon Paste Electrode for Sensitive and Stable Dopamine Detection: A Progressive Electrochemical Biosensing Approach, **Materials chemistry and physics**, **Impact factor-4.7, Q1**	S.C. Sharma, K. Ponnazhagan, Rajini Samuel, Nandini Robin Nadar, J. Deepak, B. R. Radha Krushna, I.S.Pruthviraj, Lambodaran Ganesan, Subhashree Ray, Vignessh R, H. Nagabhushana, **Surya Sridhar**	Communicated	
27	La-Doped CeO_2 Nanocomposites Synthesized via Solution Combustion for Sensitive and Selective Electrochemical Detection of Dopamine, **Solid State Sciences**, **Impact factor-3.2, Q2**	K. Ponnazhagan, Rajini Samuel, Nandini Robin Nadar, J. Deepak, S.C. Sharma, B. R. Radha Krushna, I.S.Pruthviraj, Lambodaran Ganesan, Vignesh R, H. Nagabhushana, **Eesha Nagella**	Communicated	