

**17<sup>th</sup> DAE-BRNS Biennial Symposium on Nuclear and Radiochemistry (NUCAR-2025)**  
**DAE Convention Centre, Mumbai,**  
**April 23-26, 2025**

**CONTRIBUTORY ABSTRACTS FOR ORAL PRESENTATION WITH REVISED ABSTRACT NUMBER**

**Allotted duration for oral presentation = 10 min (presentation: 8 min; discussion: 2 min)**

Abstract No	Title	Mode of Presentation
<b>A-1</b>	To investigate the fission timescale of $^{206}\text{Rn}^*$ utilizing neutron multiplicity as a probe	Oral
<b>A-4</b>	$\text{CO}_2$ Pressure Induced Flexibility of Pure and Hybrid ZIF-7: An in-situ PALS Study	Oral
<b>A-6</b>	Study of fission product mass distribution in $^{11}\text{B} + ^{237}\text{Np}$ reaction to investigate the role of shell closure	Oral
<b>A-9</b>	Investigation of Site-selective Doping Induced Defects in $\text{CaSnO}_3$ Perovskite: A Positron Annihilation Spectroscopic Study	Oral
<b>B-9</b>	Addictive White Gaussian Noise (AWGN) Incorporated Calibration-Free LAMIS for Improved Direct Boron Isotopic Analysis	Oral
<b>C-5</b>	Electrodeposition Study of Uranium from Non-aqueous Methane sulphonic acid medium	Oral
<b>C-12</b>	Direct Uranium extraction from solid oxides employing Novel Supercritical $\text{CO}_2$ -philic extractants	Oral
<b>C-20</b>	Computational Studies of U(VI) and Th(IV) Metal Complexes with TAP and DAAP Ligands	Oral
<b>C-28</b>	An offline conjugation of cloud point extraction with inductively coupled plasma optical emission spectrometry for determination of trace lanthanides in uranium matrix	Oral
<b>C-35</b>	Development of Functionalized Aluminosilicate Composites from Fly Ash for Efficient Sorption of Am(III)	Oral
<b>D-6</b>	Understanding the complexation of CMPO and DGA functionalized Task Specific Ionic Liquids (TSILs) with trivalent f-cations	Oral
<b>D-12</b>	DFT approach to elucidate $\text{Eu}^{3+}$ complexation with TOPO-Decanoic Acid Deep Eutectic solvent	Oral
<b>D-20</b>	Synthesis of ion-imprinted polymer gels for selective separation of strontium ions	Oral
<b>D-23</b>	Study of effect of linker behavior on the iodine adsorption capacity of Thorium based $\text{UiO-66/67}$ MOFs	Oral
<b>D-24</b>	Fe(II)-induced Immobilization of Selenium (VI) oxyanion in Presence of Uranyl ions	Oral
<b>F-20</b>	$\text{Pr}^{3+}$ -activated Phosphor for X-ray Imaging	Oral
<b>F-29</b>	$^{177}\text{Lu}$ ]Lu-Doxorubicin loaded DHF-I crosslinked radiopaque microspheres towards radio-chemoembolization of hepatocellular carcinoma	Oral
<b>F-31</b>	Boron-Doped Bismuth Zinc Erbium Tellurite (TBBZE) Glass Matrix for Radiation Shielding Applications	Oral
<b>G-33</b>	Radiocarbon dating of tree rings using Accelerator Mass Spectrometry	Oral
<b>G-54</b>	Phosphonate Modified MOF-808 (Ce) for the Remediation of Uranium from Aqueous Solution	Oral
<b>G-57</b>	Electrochemical Decontamination of Radioactive Metallic Surfaces with Fixed Contamination	Oral
<b>I-4</b>	Characterization of ASIC based indigenous Neutron Area Flux Monitor with BARC-make $\text{BF}_3$ filled neutron detector	Oral