

## CSIR-CLRI Publications of Early Access 2026 (Indexed in SCI-Expanded)

JANUARY – MAY 2026

| Sl. No. | AUTHORS                                                                                                                               | TITLE                                                                                                                                                  | SOURCE                                             | PY*  | VL* | IS* | BP* | EP* | DoI*                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------|-----|-----|-----|-----|----------------------------|
| 1       | Kumar, S; Maurya, KRA; Dixit, M                                                                                                       | Unravelling the Catalytic Activity of Dual-Metal Doped N6-Graphene for Sulfur Reduction via Machine Learning-Accelerated First-Principles Calculations | <i>Small</i>                                       | 2026 |     |     |     |     | 10.1002/sml.202514877      |
| 2       | Senthilkumar, M; Choutipalli, VSK; Esackraj, K; Nulakani, NVR; Ramanujam, K; Anjum, DH; Shuford, KL; Prakash, M; Subramanian, V       | Nitrogenase Inspired Nitrogen Reduction on Mo/Fe-Modified Subunene: A Computational Exploration of Bio-Mimetic 2D Catalysis                            | <i>Journal of Physical Chemistry C</i>             | 2026 |     |     |     |     | 10.1021/acs.jpcc.5c08383   |
| 3       | Raj, AS; Leelaram, S; Sudharshan, S; Kumar, SB; Balaji, D; Sivanesh, N; Senthilkumar, S; Karthikeyan, R; Anusha, S; Surianarayanan, M | Significance of measuring metabolic heat in bioprocess monitoring                                                                                      | <i>Journal of Thermal Analysis and Calorimetry</i> | 2026 |     |     |     |     | 10.1007/s10973-026-15412-8 |
| 4       | Ravi, S; Krishna, JS; Samanta, D                                                                                                      | Sustainable Functionalization of Natural Rubber via Click Reaction for Improved Thermal and Chemical Resistance With Biodegradability                  | <i>Journal of Applied Polymer Science</i>          | 2026 |     |     |     |     | 10.1002/app.70609          |

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|---|---------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------|--|--|--|--|------------------------|
| 5 | Mangalsana, H; Sruthy, K; Vernekar, AA                        |               | Turning Color Confusion to Clarity: A Layered Ce-Based Nanozyme Drives Rapid Wavelength Transition for Discriminative Detection of Nerve Agent during Decontamination                                                | <i>Chemistry-A European Journal</i> | 2026 |  |  |  |  | 10.1002/chem.202503606 |
| 6 | Morajkar, Mohammed, Palliyarayil, Sankaralingam, Vernekar, AA | RV; TP; A; M; | Multi-Subunit Nanozyme: A Functionally Programmed Ru Nanocluster-Installed Tannic Acid-Framed Hollow ZIF-8 Single Construct Exhibits Subunit-Specific Roles in Facilitating Remarkable Substrate Selective Catalysis | <i>Small</i>                        | 2026 |  |  |  |  | 10.1002/smll.202513432 |

\*PD=Date of Publication; PY=Year of Publication; Vol=Volume; IS=Issue; BP=Beginning Page Number; EP=Ending Page Number, DOI=Digital Object Identifier.