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Authors: Emmanuel Onoja, Sheela Chandren, Fazira Ilyana Abdul Razak, Roswanira Abdul Wahab



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Extraction of nanosilica from oil palm leaves and its application as support for lipase immobilization

Emmanuel Onoja^{a,b,c,*}, Sheela Chandren^{a,c}, Fazira Ilyana Abdul Razak^{a,c} and Roswanira Abdul Wahab^{a,c,*}

^a Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Malaysia.

^b Department of Science Laboratory Technology, The Federal Polytechnic, Kaura Namoda, P.M.B. 1012, Zamfara State, Nigeria.

^c Enzyme Technology and Green Synthesis Group, Faculty of Science, 81310 UTM Johor Bahru, Malaysia.

*Corresponding author:

Roswanira Abdul Wahab, Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor, Malaysia

Telephone: +607 551 0363; Fax +607 556 6162; Email: roswanira@kimia.fs.utm.my

*Co-corresponding author:

Emmanuel Onoja: onojaemmanuel30@yahoo.com

E-mail addresses of authors:

APTES (3-aminopropyltriethoxysilane), SiO₂ (silica), MNPs (magnetite nanoparticles), CRL (*Candida rugosa* lipase), OPL (oil palm leaves), RA (recovery activity), IP (immobilized protein), IY (immobilization yield), TEOS (tetraethyl orthosilane), CRL/GI-A-SiO₂-MNPs (immobilized CRL), CTAB (Hexadecyl trimethyl ammonium bromide)

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