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Review

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Ali Abo-Hamad, Maan Hayyan, Mohammed AbdulHakim AlSaadi, Mohd Ali Hashim

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## POTENTIAL APPLICATIONS OF DEEP EUTECTIC SOLVENTS IN NANOTECHNOLOGY

Ali Abo-Hamad<sup>a,b</sup>, Maan Hayyan<sup>a,c\*</sup>, Mohammed AbdulHakim AlSaadi<sup>a,d</sup>, Mohd Ali Hashim<sup>a,b</sup>

<sup>a</sup>*University of Malaya Centre for Ionic Liquids (UMCiL), University of Malaya, Kuala Lumpur 50603, Malaysia*

<sup>b</sup>*Department of Chemical Engineering, University of Malaya, Kuala Lumpur 50603, Malaysia*

<sup>c</sup>*Department of Civil Engineering, University of Malaya, Kuala Lumpur 50603, Malaysia*

<sup>d</sup>*Nanotechnology & Catalysis Research Centre (NANOCAT), University of Malaya, Kuala Lumpur 50603, Malaysia*

\*E-mail: maan\_hayyan@yahoo.com, Tel/Fax No.: +6-03-7967-5311

### Abstract

Deep eutectic solvents (DESs) have recently received a great interest in diverse fields including nanotechnology due to their unique properties as new green solvents, efficient dispersants and as large-scale media for chemical and electrochemical synthesis of advanced functional nanomaterials. DESs have also an active role in improving the size and morphology of nanomaterials during synthesis stage. Moreover, DESs confined in nano-size pores or tubes show distinct behaviour from those in the same types but in larger scales. Therefore, a numerous studies sprung up to expose the importance of the synergy between DESs and nanomaterials. This review revealed the recent studies that devoted to the impact of involving DESs in nanotechnology and potential applications.

**Keywords:** deep eutectic solvent; ionic liquid; nanomaterial; carbon nanotube, electrodeposition; dispersion.

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