



Contribution ID: 219

Type: **Poster Presentation**

Development of a salt-impregnated SAPO-34 porous matrix with graphene oxide for water sorption applications

Thursday, 2 June 2022 15:15 (1h 10m)

Composites “Salt Inside Porous Matrix” (CSPMs) are promising materials for atmospheric water adsorption/generation. In this work, CSPMs were synthesized by impregnating porous SAPO-34 with hygroscopic salts (LiCl and/or CaCl₂), and further functionalized with incorporation of graphene oxide (GO). The physicochemical, morphological, and textural properties of the resulting hybrids were determined, and their water adsorption performance was evaluated.

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MDPI Energies Student Poster Award

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Country

United Arab Emirates

References

Time Block Preference

Time Block B (14:00-17:00 CET)

Participation

In person

Primary authors: Ms ABD ELWADOOD, Samar (Khalifa University); Prof. DUMEE, Ludovic (Khalifa University); Dr AL WAHEDI, Yasser (Abu Dhabi Ports); Dr AL ALILI, Ali (Dubai Electricity & Water Authority (DEWA)); Prof. KARANIKOLOS, Georgios (Khalifa University)

Presenter: Ms ABD ELWADOOD, Samar (Khalifa University)

Session Classification: Poster

Track Classification: (MS02) Porous Media for a Green World: Water & Agriculture