

### Theme 3-5: Advanced and Functional Materials - 2021

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Group contribution estimation of ionic liquid melting points: Critical evaluation and refinement of existing models	Mital, D.K.   Nancarrow, P.   Zeinab, S.   Jabbar, N.A.   Ibrahim, T.H.   Khamis, M.I.   Taha, A.	Molecules	26	9	-	Journal	Article	Gold   Green
Industrial Challenges of MOFs in Energy Applications	Al-Othman, A.   Tawalbeh, M.   Temsah, O.   Al-Murisi, M.	Encyclopedia of Smart Materials	-	-	535-543	Book	Chapter	
Classifications of Thermal Energy Storage Materials	Tawalbeh, M.   Al-Othman, A.   Ashoobi, N.   Alkasrawi, M.	Encyclopedia of Smart Materials	-	-	450-469	Book	Chapter	
Pulsed Laser Deposited Zeolite Coatings on Femtosecond Laser-Nanostructured Steel Meshes for Durable Superhydrophilic/Oleophobic Functionalities	Ahmad, S.   Egilmez, M.   Iqbal, M.   Ibrahim, T.   Khamis, M.   Alnaser, A.S.	Frontiers in Chemistry	9	-	-	Journal	Article	Gold   Green
Metamaterials: Classifications and Characteristics	Al-Othman, A.   Tawalbeh, M.   Temsah, O.   Khan, H.A.   Hajar, A.A.	Encyclopedia of Smart Materials	-	-	46-56	Book	Chapter	
Applications of Metamaterials	Tawalbeh, M.   Khan, H.A.   Hajar, A.A.   Al-Othman, A.	Encyclopedia of Smart Materials	-	-	11-24	Book	Chapter	
Effect of deformation mechanisms on in-plane wave propagation in periodic cellular materials	Ahmad, A.   Alkhader, M.   Abu-Nabah, B.A.   Venkatesh, T.A.	Waves in Random and Complex Media	-	-	-	Journal	Article	
Superconductivity in Ti67Zr19Nb11.5Sn2.5 shape memory alloy	Egilmez, M.   Batal, O.   Abuzaid, W.   Salman, Z.   Alkhader, M.   Akamine, H.   Nishida, M.   Robinson, J.W.A.	Physical Review Materials	5	7	-	Journal	Article	Green