

Theme 3-5: Advanced and Functional Materials - 2023

Title	Authors	Scopus Source title	Source type
A comprehensive review of hydrogen generation by water splitting using 2D nanomaterials: Photo vs electro-catalysis	Almomani, F. Al-Rababah, A. Tawalbeh, M. Al-Othman, A.	Fuel	Journal
The novel contribution of non-noble metal catalysts for intensified carbon dioxide hydrogenation: Recent challenges and opportunities	Tawalbeh, M. Muhammad Nauman Javed, R. Al-Othman, A. Almomani, F.	Energy Conversion and Management	Journal
Mxene/Polydimethylsiloxane (PDMS) Based Implantable and Flexible Bioelectrodes for Neural Sensing	Baz Khan, K.R. Al-Othman, A. Al-Nashash, H. Al-Sayah, M.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Strange Metallicity and Magnetic Order in the CoNi(Cr/V) Medium-Entropy Alloy System	Mustafa, F. Egilmez, M. Abuzaid, W. El-Khatib, S. Nawaz, T. Ahmad, S. Alagoz, S.	Materials	Journal
Orientation Relationships in FeMnNiAl Governed by Martensitic Substructure	Mohammed, A.S.K. Sidharth, R. Abuzaid, W. Akamine, H. Nishida, M. Sehitoglu, H.	Shape Memory and Superelasticity	Journal
Efficient medium entropy alloy thin films as bifunctional electrodes for electrocatalytic water splitting	Ahmad, S. Egilmez, M. Abuzaid, W. Mustafa, F. Kannan, A.M. Alnaser, A.S.	International Journal of Hydrogen Energy	Journal
Magneto transport and critical behavior in metastable Fe ₁₅ Cu ₈₅	Younus, S. Mustafa, F. Egilmez, M. Al Awadhi, M. Abuzaid, W. El Khatib, S. Alagöz, S. Hai Alami, A.	International Journal of Modern Physics B	Journal