

Publications 2019

- 1. Enhancement of photocatalytic and photoelectrochemical properties of TiO₂ nanotubes sensitized by SILAR - Deposited PbS nanoparticles**

A.Hajjaji, S.Jemaiaf, A.Rebhi, K.Trabelsi, M.Gaidi, A.N.Alhazaa, M.A.Al-Gawati, M.A.El Khakani, B.Bessais
Science Direct, December 2019
- 2. Detecting and Mapping Slag Heaps at Ancient Copper Production Sites in Oman**

Alexander J. Sivitskis , JosephW. Lehner , Michael J. Harrower , Ioana A. Dumitru ,Paige E. Paulsen , Smiti Nathan , Daniel R. Viète, Suleiman Al-Jabri, Barbara Helwing ,FrancesWiig , Daniel Moraetis and Bernhard Pracejus
MDPI, December 2019
- 3. Microstructure and electrical transport mechanisms of the Ca-doped LaMnO₃ films grown on MgO substrate**

K. Daoudi, S. El-Helali, Z. Othmen, B.M. Suleiman, T. Tsuchiya
Journal of Materiomics, November 2019
- 4. Pulsed-laser-deposited lead sulfide nanoparticles based decoration of porous silicon layer as an effective passivation treatment for multicrystalline silicon**

A.Hajjaji, A.Rebhi, I.Ka, K.Trabelsi, M.Gaidi, B.Bessais, M.A.El Khakani
Science Direct, November 2019
- 5. Study of TiO₂ nanotubes decorated with PbS nanoparticles elaborated by pulsed laser deposition: microstructural, optoelectronic and photoelectrochemical properties**

A. Hajjaji, S. JemaiK. Trabelsi, A. Kouki, I. Ben Assaker, I. Ka, M. Gaidi, B. Bessais, M. A. El Khakani
Springer Link, November 2019
- 6. Evaluation of microplastics in beach sediments along the coast of dubai, UAE**

Huda Aslam, Tarig Ali, Md Maruf Mortula, Atta G. Attaelmanan
Elsevier, November 2019
- 7. Manipulating entanglement sudden death in two coupled two-level atoms interacting off-resonance with a radiation field: an exact treatment**

Gehad Sadiék, Wiam Al-Drees, and M. Sebaweh Abdallah
Optics Express, November 2019
- 8. Phase transition in thermochromic VO₂ coatings grown by ac dual magnetron cathode sputtering**

Mohammed Soltani, Souleymane Toubou Bah, Rachid Karmouch, Mounir Gaidi & Réal Vallée
Springer Link, November 2019
- 9. Synthesis and Characterization of SnO₂-TiO₂ Nanocomposites Photocatalysts**

Charfeddine Messaadi, Taher Ghrib, Jalila Jalali, Mondher Ghrib, Alanood Abdullah Alyami, Mounir Gaidi, Miguel Manso Silvan, Hatem Ezzaouia.
Current Nanoscience, October 2019

- 10. Rényi and Tsallis Entropies of the Aharonov–Bohm Ring in Uniform Magnetic Fields**
Oleg. Olendski
Entropy-MDPI, October 2019
- 11. Postobductional Kinematic Evolution and Geomorphology of a Major Regional Structure—The Semail Gap Fault Zone (Oman Mountains)**
A. Scharf F. Mattern D. Moraetis I. Callegari
C. Weidle
AGU-Tectonics, October 2019
- 12. On the wind accretion model of GX 301-2**
Ali Taani, Shigeyuki Karino, Liming Song,
Mohammad Mardini, Mashhoor Al-Wardat,
Ahmad Abushattal, Awni Khasawneh and
Hamid Al-Naimiy
IOP Science, July 2019
- 13. Extrasolar Planets in Binary Systems (Statistical Analysis)**
A. A. Abushattal, M. A. Al-Wardat, A.A. Taani,
A. M. Khasawneh and H. M. Al-Naimiy
IOP-Science, July 2019
- 14. The Nucleosynthesis and Reaction Rates of Fluorine 19 (¹⁹F) in the Sun**
Mohammad K. Mardini, Nidal Ershiadat,
Mashhoor A. Al-Wardat, Ali A. Taani, Sergen
Ozdemir, Hamid Al-Naimiy, Awni Khasawneh
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- 15. Quantitative measure of nitrogen vacancy related effects in SmN and EuN**
Muhammad Azeem
IOP-Science, January 2019