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| **No.**  | **Title of the paper** | **Date of publication** | **Journal/publisher** | **Authors** |
| 1 | TM-doped Mg12O12 nano-cages for hydrogen storage applications: Theoretical study | 2022 | Results in Physics | **H. Y. Ammar**,Kh. M. Eid, H. M. Badran |
| 2 | [Fabrication and characterization of high-performance photodetectors based on Au/CdS/Au and Au/Ni: CdS/Au junctions](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=nA6Rq4QAAAAJ&sortby=pubdate&citation_for_view=nA6Rq4QAAAAJ:dhFuZR0502QC) | 2021 | Journal of King Saud University-Science | Hasan Albargi, ZR Khan, R Marnadu, **HY Ammar,** Hassan Algadi, Ahmad Umar, IM Ashraf, Mohd Shkir |
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| **9** | Interaction and detection of formaldehyde on pristine and doped boron nitride nano-cage: DFT calculations | 2020 | Materials Today Communications | **H. Y. Ammar,**Kh. M. Eid, H. M. Badran |
| **10** | A DFT study on the effect of the external electric field on ammonia interaction with boron nitride nano-cage | 2020 | Journal of Physics and Chemistry of Solids | H. M. Badran,**H. Y. Ammar,**Kh. M. Eid |
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