

PUBLICATIONS (29)

1. Layth Al-Gebory, Aseel B Al-Zubaidi, **Ahmed A Al-Tabbakh**, Production of Self-Cleaning SiO₂/CNT Nanoparticles Substituted Cement Mortar, **Engineering and Technology Journal** **38(3A)**, 335-342, 2020.
2. Benchaabane Aida, Hajlaoui Mohsen, Hnainia Nissrine, **Al-Tabbakh Ahmad**, Zeinert Andeas, Bouchriha Habib, Optical properties enhancement of hybrid nanocomposites thin films based on P3HT matrix and ZnO@SiO₂ core-shell nanoparticles, **Optical Materials** **102**, 109829, 2020.
3. Shatha Riyad Ahmedizat, Aseel Basim Al-Zubaidi, **Ahmed A Al-Tabbakh**, Amine Achour, Alaa Abdul Hamead, Comparative study of erosion wear of glass fiber/epoxy composite reinforced with Al₂O₃ nano and micro particles, **Materials Today: Proceedings** **20**, 420-427, 2020.
4. **Ahmed A. Al-Tabbakh**, Principles of electron optics: volume one: basic geometrical optics & volume two: applied geometrical optics, Book Review, **Contemporary Physics** **60(1)**, 103-104, 2019, DOI:10.1080/00107514.2019.1614675
5. **Ahmed A. Al-Tabbakh**, Nilgun Karatepe, Aseel B. Al-Zubaidi, Aida Benchaabane, Natheer B. Mahmood, Crystallite size and lattice strain of lithiated spinel material for rechargeable battery by X-ray diffraction peak- broadening analysis, **International Journal of Energy Research** **43(5)**, 1-9, 2019. DOI: 10.1002/er.4390.
Impact factor 3.01
6. **Ahmed A. Al-Tabbakh**, The behavior of the Fowler–Nordheim plot for ZnO–Cu virtual emitter arrays, **Indian J. Phys.** **2018**, DOI 10.1007/s12648-018-1276-3.
7. **Ahmed A. Al-Tabbakh**, Field electron emission area revisited: an integrated method for the area extraction model, **Turkish Journal of Physics** **42**, 27- 32, 2018.
DOI:10.3906/z-1705-7.
8. Adawiya J. Haider, **Ahmed A. Al-Tabbakh**, Aseel B. Al-Zubaidi, Rusul A. Rsool, Preparation and characterization of LiCo_{0.5}Ni_{0.45}Ag_{0.05}O₂ Cathode material for lithium–ion battery, **Journal of Materials Science: Materials in Electronics** **29 (15)**, 13277–13285, 2018, <https://doi.org/10.1007/s10854-018-9451-z>. **Impact Factor 2.324**
9. Adawiya J. Haider, Rusul Abed Al-Rsool, **Ahmed A. Al-Tabbakh**, Abdul Nasser M. Al-Gebori, Aliaa Mohamed, Structural, morphological and optical properties of

- LiCo_{0.5}Ni_{0.45}Ag_{0.05}O₂ thin films, **AIP Conference Proceedings** 1968, 020001, 2018, doi: [10.1063/1.5039160](https://doi.org/10.1063/1.5039160).
10. **Ahmed A. Al-Tabbakh**, Symmetry in crystallography: understanding the international tables, Book Review, **Contemporary Physics**, 58, 371, 2017, DOI: [10.1080/00107514.2017.1371232](https://doi.org/10.1080/00107514.2017.1371232)
 11. **Ahmed A. Al-Tabbakh**, Microscopy: A very short introduction, Book Review, **Contemporary Physics** 58, 2017, DOI: [10.1080/00107514.2017.1291721](https://doi.org/10.1080/00107514.2017.1291721)
 12. **Ahmed A. Al-Tabbakh**, Norlida Kamarulzaman, An Innovative Method to Observe Rate Capability of Li-Ion Battery Composed of Spinel Cathode Material, **Journal of Energy Storage** 3, 36–42, 2015.
 13. **Ahmed A. Al-Tabbakh**, Fowler-Nordheim Plot Characteristics for ZnO Virtual Field Emitter Array, **Philosophical Magazine** 95(26), 2839 – 2850, 2015. DOI: [10.1080/14786435.2015.1083133](https://doi.org/10.1080/14786435.2015.1083133). (2015) **Impact Factor 1.825**.
 14. **Ahmed A. Al-Tabbakh**, Aseel B. Al-Zubaidi, Norlida Kamarulzaman, “Correlating capacity and Li content in layered material for Li ion battery using XRD and particle size distribution measurements”, **India Journal of Physics** 90 (3), 297-305, 2016. DOI [10.1007/s12648-015-0748-y](https://doi.org/10.1007/s12648-015-0748-y), (2016). **Impact Factor 1.337**.
 15. **Ahmed A. Al-Tabbakh**, Norlida Kamarulzaman, Aseel B. Al-Zubaidi, Synthesis and properties of a spinel cathode material for lithium ion battery with flat potential plateau, **Turkish Journal of Physics** 39, 187 – 198, 2015.
 16. **Ahmed A. Al-Tabbakh** and Norlida Kamarulzaman, “Evaluation of the electrochemical capacity of spinel Li_{1.0348}Mn_{1.9152}Fe_{0.0494}O₄ compound from combined X-ray diffraction and particle size distribution measurements, **Journal of Solid State Electrochemistry** 18, 2411 – 2418, 2014, DOI: [10.1007/s10008-014-2486-z](https://doi.org/10.1007/s10008-014-2486-z). **Impact Factor: 2.446, 3 Citations**.
 17. **Ahmed A. Al-Tabbakh**, M. A. More, Dilip. S. Joag, Imtiaz S. Mulla and Vijayamohan K. Pillai, “The Fowler – Nordheim Plot Behavior and Mechanism of Field Electron Emission from ZnO Tetrapod Structures”, **ACS NANO** 4 (10), 5585–5590, 2010. **Impact Factor: 12.03, 52 Citations**.
 18. **Ahmed A. Al-Tabbakh**, Mahendra A. More, Dilip S. Joag, Niranjana S. Ramgir, Imtiaz S. Mulla and Vijayamohan K. Pillai, “Energy Analysis of Field Emitted Electrons from a ZnO Tetrapod” **Applied Physics Letters** 90, 162102, 2007. **Impact Factor: 3.52, 20 Citations**.

19. Ahmad K. Ahmad, Sabah M. Juma and **Ahmed A. Al-Tabbakh**, "Computer Aided Design of an Electrostatic FIB System", **Indian Journal of Physics B**, Vol. 76(6), pp 711-714, 2002. **Impact Factor: 1.785, 4 Citations.**
20. **Ahmed A. Al-Tabbakh**, "A fresh look at thermal field emission from tungsten tip", **Turkish Journal of Physics** 36, 271-278, 2012. **1 Citation.**
21. **Ahmed A. AL-Tabbakh**, M. A. More, D. S. JOAG, " Development and Utilization of a Retarding Analyzer for Field Emission Investigation of LaB6/W Emitter", **Turkish Journal of Physics** 37, 219-228, 2013.
22. F. Jamali Sheini¹, **Ahmed A. Al-Tabbakh**, D. S. Joag, M. A. More, "Field Emission Investigation of as-Synthesized Cu/Zno Nanostructure Films", **Iranian Physical Journal**, 2-4, 1-5, 2009.
23. Ahmad K. Ahmad, Fadhil A. Ali, **Ahmed A. Al-Tabbakh**, Sabah M. Juma, Computer aided design of a magnetic lens using a combined dynamic programming and artificial intelligence technique, **Iraqi Journal of Applied Physics** 10(1), 33-37, 2014.
24. **Ahmed A. Al-Tabbakh**, "Optimization of Ion Beam System Using the Inverse Problem Procedure", DAE-BRNS-PSI Symposium on Ion Beam Technology and Applications, September 19-20, 2007, Bhabha Atomic Research Centre, Trombay, Mumbai – 400085, India.
25. Development of Analyzer for Field Electron Energy Spectroscopy; An Integrated Guide for Analyzer Fabrication and Utilization, LAMBERT academic publication, Germany 2013 (**Book Publication**).
26. Ahmad K. Ahmad, Sabah M. Juma and **Ahmed A. Al-Tabbakh**, "Simulation of an Electrostatic FIB System", European Simulation Symposium, Marseille, France 2001.
27. Aseel B. Al-Zubaidi, **Ahmed A. Al-Tabbakh**, Hanaa A. Al-Qaessy, Ragad N. Al-Kaseey, **Engineering and Technology Journal** 32(B), 519 – 532, 2013.
28. Aseel B. Al-Zubaidi, **Ahmed A. Al-Tabbakh**, Ragad O. Abbas, Nazar J. Riza, Mechanical and Thermal Properties of Cockles Shell Cementing Material, **Iraqi Journal of Physics** 13(26), 107-111, 2015.
29. Ahmad K. Ahmad, **Ahmed A. Al-Tabbakh** and Sabah M. Juma, "Optical Properties of Two-Interval Spline Electrostatic Lens Model", Conference of Arab Science and Technology, Syria 2002.