

Dr. Tauseef Anwar
Assistant Professor
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Personal Information

Father's name Muhammad Anwar
NIC # 38301-1877489-5
Home Town: Opposite Peer Jalal, Kalabagh, Tehsil Essa Khel & District Mianwali, (Punjab)
 Pakistan

Education

Institution	Field of Study	Degree	Year Awarded
Institute of Nuclear and New Energy Technology, Tsinghua University, Beijing, China.	Materials Science and Engineering Thesis title: "Titania Nanotube Arrays as Anode Material for Lithium-ion Batteries" Supervisor: Prof. Dr. Liang Tongxiang, Institute of Nuclear and New Energy Technology, Tsinghua University, Beijing, China.	Ph.D.	2017
University of Sargodha, Sargodha, Pakistan	Physics	M.Sc.	2008
Bahauddin Zakariya University, Multan, Pakistan	Mathematics (A & B), Physics	B.Sc.	2005

Employment

Institution	Rank/Position	Date
Department of Physics University of Education Lahore, Jauharabad Campus	Assistant Professor	15 Jan.2023 - Till Date
Department of Physics The University of Lahore, Lahore Campus	Assistant Professor	16 Sep. 2021- 15 Jan.2023
College of Rare Earths, Jiangxi University of Science and Technology,	Associate Professor	01 Sep. 2019- 31 Aug. 2021

Ganzhou, Jiangxi Province, China		
Department of Physics The University of Lahore, Lahore Campus	Assistant Professor	24 Dec. 2018- 31 Aug. 2019
Energy Research Centre, COMSATS University Islamabad, Lahore Campus.	Assistant Professor	5 th May 2017- 4 th May 2018
Institute of Nuclear and New Energy Technology, Tsinghua University, Beijing, China	Research Assistant/PhD Scholar	2013-2014
Govt. High School, Vanjari, Mianwali, Pakistan	Senior School Teacher	2010-2012
PAF Model College, Sargodha, Pakistan	Lecturer	2007-2008

Professional Qualification

Institution	Field	Title Course	Year
Allama Iqbal Open University Islamabad	Educational Management	M.Ed.	Continued
Allama Iqbal Open University Islamabad	Educational Management	B.Ed.	Completed

Professional Trainings

Duration	Training Area	Institution
15-days	English For Teaching, Teaching for English	Punjab Government, Pakistan
3-days	Workshop on “Blue-Chip Teaching”	COMSATS University Islamabad, Lahore Campus
2-days	Training Workshop on Energy Efficiency and Conservations Measures in Punjab	Punjab Energy Efficiency and Conservation Agency (PEECA), Energy Department, Government of Punjab
1-day	Hands-On Training on Patent Drafting and Filling	University of Education Lahore

Scientific Skills

- Electrochemistry,
- Anodic Oxidation,
- Cathodic reduction,
- Solvothermal Reaction,
- Galvanostatic Electrochemical Tests (Battery Tests),
- Cyclic Voltammetry,
- Electrochemical Impedance Spectroscopy

- X-ray Diffraction Spectroscopy,
- X-ray Photoelectron Microscopy,
- Scanning Electron Microscopy,
- Transmission Electron Microscopy,
- Retvield Refinement,
- Microsoft Office, Adobe Photoshop, Origin,
- Article writing.

Areas of Specialization/Interests

Physics, Nanomaterials Synthesis, Electrochemistry, Electrochemical Properties of Lithium-ion Battery.

Awards and Scholarships

- Partial support program of Higher Education Commission for International students 2016
- Tsinghua University Scholarship 2012-2017 (Analysis Base/Year)
- Distinguish student award in year 2014-2015 (Chinese Scholarship Council)

International/National Conferences & Meetings

1. ASPIRE Forum 2014 July 10-11, Tsinghua University, Beijing, China.
2. International Conference of Nanoenergy and Nanosystems 2014, Center for International Scientific Exchanges, Chinese Academy of Sciences, Beijing, China.
3. Poster Presentation in Doctoral forum 2014, Tsinghua University, Beijing, China.
4. Oral Presentation in Doctoral forum 2015, Tsinghua University, Beijing, China.
5. International Battery Safety Workshop, October 7-8, 2019, Battery Safety Laboratory of Tsinghua University, Beijing, China.
6. Speaker Symposium, Interdisciplinary Topics in Chemistry and Nanoscience 2020, University of Education Lahore, Jauharabad Campus.
7. Speaker Seminar, International Seminar on Sustainable Technologies in Modern Energy: A Roadmap Towards Green Economy, 7th - 8th March 2022 Islamabad, Pakistan

Projects

1. Higher Education Commission Start up Grant-0.5 million **(Completed)**
2. Analysis of energy storage materials and systems for energy applications- NRPU- RS 6.5 million **(Completed)**
3. Provincial High Talent Grant, Jiangxi University of Science and Technology- 5 million **(Granted)**

Supervisor ship

1. HEC Approved Supervisor

Academic Activities

Conference Organizer

International Conference on “Modern Trends in Chemistry & Energy Technologies (MTC & ET)
22-23 October 2018”

Second International Conference on “Energy Systems for Sustainable Development (ESSD) 21-23
February 2018”

2nd International conference on “Recent Trends in Natural Science 2023 (NRTS 2023) 03-04 May
2023”

3rd International conference on “Recent Trends in Natural Science 2024 (NRTS 2024) 24-25 April
2024”

4th International conference on “Recent Trends in Natural Science 2025 (NRTS 2024) April 22-23,
2025”

Seminar Organizer

Training Workshop on “ENERGY EFFICIENCY AND CONSERVATION MEASURES (EECMs)”
on 10th -11th April 2018

PUBLICATIONS

Research Publications (Total Impact Factor 2022 = 197.615),

1. **T. ANWAR**, L. Wang, L. Tongxiang, X. He, R.U.R. Sagar, K. Shehzad, “Effect of Aspect Ratio of Titanium Dioxide Nanotube Arrays on the Performance of Lithium ion Battery” **International Journal of Electrochemical Science**, 10 (2015) 6537-6547. **(Impact Factor 1.765)**
2. **T. ANWAR**, L. Wang, L. Jiaoyang, W. Chen, R.U.R. Sagar, L. Tongxiang, “Lithium storage study on MoO₃ grafted TiO₂ nanotube arrays, **Applied Nanoscience**, 6(8) (2016) 1-9. **(Impact Factor 3.674)**
3. **T. ANWAR**, L. Wang, N. Hussain, C. Wang, R.U.R. Sagar, L. Tongxiang. “Effect of Annealing Atmosphere Induced Crystallite Size Changes on the Electrochemical Properties of TiO₂ Nanotubes Arrays.” **Journal of Electrical Engineering**, 4 (2016) 43-51. **(Non-ISI Journal)**
4. **T. ANWAR**, L. Wang, R.U.R. Sagar, K. Shehzad, N. Hussain, L. Tongxiang., “Molybdenum disulfide grafted titania nanotube arrays as high capacity retention anode for lithium ion batteries” **Applied Nanoscience**, 7 (2017) 67-73. **(Impact Factor 3.674)**
5. **T. ANWAR**, L. Wang, R.U.R. Sagar, Farhat Nosheen, K. Shehzad, L. Tongxiang, X. He, “Cathodic Titania Nanotube Arrays as Anode Material for Lithium-ion Batteries” **Journal of Materials Science**, 52 (2017) 4323-4332. **(Impact Factor 4.220)**
6. R.U.R. Sagar, N. Mahmood, Florian J. Stadler, **T. ANWAR**, S. T. Navale, K. Shehzad, B. Du, “High Capacity Retention Anode Material for Lithium Ion Battery” **Electrochimica Acta** 211 (2016) 156-163. **(Impact Factor 6.901)**
7. Khurram Shehzad, Tajamal Hussain, Asma Tufail Shah, Adnan Mujahid, Mirza Nadeem Ahmad, Rizwan ur Rahman Sagar, **T. Anwar**, Syed Nasir, Ayaz Ali. “Effect of the carbon nanotube size dispersity on the electrical properties and pressure sensing of

- the polymer composites” **Journal of Materials Science** (2016) 51: 11014. Doi:10.1007/s10853-016-0322-9. **(Impact Factor 4.220)**
8. H.M. Jafri, S.B.F. Kazmi, M.U. Farooq, H.I.A. Qazi, S.A. Munir, **T. Anwar**. “Spectroscopic Diagnostics of High Current Density Exploding Copper Wire Plasma at Standard Ambient Temperature Pressure” **International Journal of Physics and Research (IJPR)**, 6 (2016), 1-8. **(Non-ISI Journal)**
 9. R.U.R. Sagar, Massimiliano Galluzzi, Caihua Wan, Khurram Shehzad, Sachin T. Navale, **T. Anwar**, Rajaram S. Mane, Hong-Guang Piao, Abid Ali,. “Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam–Toward High-Performance Magnetic Field Sensors” **ACS Applied Materials & Interfaces** 2017 9 (2), 1891-1898. DOI: 10.1021/acsami.6b13044. **(Impact Factor 9.229)**
 10. Y. Chen, L. Wang, **T. Anwar**, Y. Zhao, N. Piao, X. He, Q. Zhu, Application of Galvanostatic Intermittent Titration Technique to Investigate Phase Transformation of LiFePO₄ Nanoparticles, **Electrochimica Acta**, 241 (2017) 132-140. **(Impact Factor 6.901)**
 11. N. Hussain, T. Liang, Q. Zhang, **T. Anwar**, Y. Huang, J. Lang, K. Huang, H. Wu, Ultrathin Bi Nanosheets with Superior Photoluminescence, **Small**, 13 (2017) 1701349-n/a.. DOI: 10.1002/sml.201701349 **(Impact Factor 13.281)**
 12. H.M. Jafri, X. Ma, C. Zhao, H. Huang, **T. Anwar**, Z. Liu, L.-Q. Chen, Numerical Simulation of Phase Transitions in Type-II Annular Superconductor Using Time-dependent Ginzburg-Landau Equations, **Journal of Superconductivity and Novel Magnetism**, 31 (2018), 3445–3451. **(Impact Factor 1.506)**
 13. S. Aslam, T.H. Bokhari, **T. Anwar**, U. Khan, A. Nairan, K. Khan, Graphene oxide coated graphene foam based chemical sensor, **Materials Letters**, 235 (2019), 66-70. **(Impact Factor 3.423)**
 14. Hussain, N.; Rafique, M.; **T. Anwar**; Murtaza, M.; Liu, J.; Nosheen, F.; Huang, K.; Huang, Y.; Lang, J.; Wu, H., High-pressure mechanism for realizing sub-10 nm tellurium nanoflakes on arbitrary substrates. **2D Materials**, 6(4)(2019), 045006. **(Impact Factor 7.103)**
 15. Nosheen, F., **T. Anwar**, Siddique, A., and Hussain, N.. Noble Metal Based Alloy Nanoframes: Syntheses and Applications in Fuel Cells. **Frontiers in Chemistry** 7(456) (2019). **(Impact Factor 5.221)**
 16. Piao, N., Wang, L., **T. Anwar**, Feng, X., Sheng, S.e., Tian, G., et al. Corrosion resistance mechanism of chromate conversion coated aluminium current collector in lithium-ion batteries. **Corrosion Science**, 159(2019), 108100. doi: <https://doi.org/10.1016/j.corsci.2019.108100>. **(Impact Factor 7.205)**
 17. Aslam, S., Sagar, R.U.R., Liu, Y., **T. Anwar**, Zhang, L., Zhang, M., et al. Graphene decorated polymeric flexible materials for lightweight high areal energy lithium-ion batteries. **Applied Materials Today** 17 (2019), 123-129. doi: <https://doi.org/10.1016/j.apmt.2019.08.003>. **(Impact Factor 10.041)**
 18. F. Nosheen, N. Wasfi, S. Aslam, **T. Anwar**, S. Hussain, N. Hussain, S. N. Shah, N. Shaheen, A. Ashraf, Y. Zhu, H. Wang, J. Ma, Z. Zhang and W. Hu, Ultrathin Pd-Based Nanosheets: Syntheses, Properties and Applications. **Nanoscale**, 2020, 12, 4219-4237. **(Impact Factor 7.790)**

19. R.U.R. Sagar, U. Khan, M. Galluzzi, S. Aslam, A. Nairan, **T. Anwar**, W. Ahmad, M. Zhang, T. Liang, Transfer-Free Growth of Bi₂O₂Se on Silicon Dioxide via Chemical Vapor Deposition, **ACS Applied Electronic Materials** (2020) 2 (7), 2123-2131. **(Impact Factor 3.314)**
20. **T. Anwar**, Sagar, R. U. R.; Sheraz, S.; Nosheen, F.; Aslam, S.; Shah, S. N.; Ali, S. S.; Hui, Y.; Liang, T., Titania Nanotube Array Decorated in Polymer Matrix as a Free-standing Anode Material for Lithium-ion Batteries. **Materials Today Communications** 26 (2021), 101760. **(Impact Factor 3.383)**
21. Sagar, R. U. R.; Lifang, C.; Ali, A.; Khan, M. F.; Abbas, M.; Malik, M. I.; Khan, K.; Zeng, J.; **T. Anwar**, Liang, T., Unusual Magnetotransport Properties in Graphene Fibers. **Physical Chemistry Chemical Physics** 2020, 22 (44), 25712-25719. **(Impact Factor 3.676)**
22. Naveed Hussain; Yao Yisen; Rizwan Ur Rehman Sagar; **T. Anwar**; Muhammad Murtaza; Kai Huang; Khurram Shehzad; Hui Wu; Zhiming Wang., Quantum-Confined Blue Photoemission in Strain-Engineered Few-Atomic-layer 2D Germanium. **Nano Energy** 2021, 83, 105790. **(Impact Factor 17.881)**
23. Chen, L.; Sagar, R. U. R.; Chen, J.; Liu, J.; Aslam, S.; Nosheen, F.; **T. Anwar**; Hussain, N.; Hou, X.; Liang, T., Cobalt phthalocyanine as an efficient catalyst for hydrogen evolution reaction. **International Journal of Hydrogen Energy** 2021, 46(37), 19338-19346. **(Impact Factor 5.816)**
24. Jianhang Yang, Rizwan Ur Rehman Sagar, **T. Anwar**, Xiaocheng Li, Zhang Qian, and Tongxiang Liang, Graphene Foam as a Stable Anode Material in Lithium-ion Batteries". **2D Materials**, (2021). **(Impact Factor 5.164)**
25. Perveen, S., Nadeem, R., Nosheen, F., Tongxiang, L. and **T. Anwar**, "Synthesis of biochar-supported zinc oxide and graphene oxide/zinc oxide nanocomposites to remediate tartrazine dye from aqueous solution using fixed-bed column reactor." **Applied Nanoscience**, (2022): 1-15. **(Impact Factor 3.674)**
26. Anwar, N., Hussain, N., Ao, S., Amjad, S., Arshad, J., **T. Anwar**, Faiza, H.S., Hussain, S.S., Fu, W. and Zhang, Z., 2022. Tailoring TiO₂/Al₂O₃ heterolayers as optical filters for the visible region. **Nanoscale Advances**, (2022). **(Impact Factor 4.553)**
27. Shazia Perveen , Raziya Nadeem, Farhat Nosheen, Muhammad Imran Asjad, Jan Awrejcewicz, and **T. Anwar**, Biochar-Mediated Zirconium Ferrite Nanocomposites for Tartrazine Dye Removal from Textile Wastewater, **Nanomaterials**, 2022 **(Impact Factor 5.719)**
28. Zulqarnain, M., S. S. Ali, C. Cheng, K. Nadeem, M. Rizwan, and **T. Anwar**. "Structural tuning interlinking various optical, dielectric and magnetic trends in annealed Mn_{0.5}Zn_{0.5}Fe₂O₄ spinel ferrites nanostructures." **Journal of Magnetism and Magnetic Materials** (2022): 170252. **(Impact Factor 3.097)**
29. Akbar, Hassan, Muhammad Subhan Javed, Syeda Tehreem Iqbal, Muhammad Iftikhar Khan, **T. Anwar**, Faiza Anjum, Ashfaq Ahmad, Muhammad Muneeb, Asghar Ali, and Won-Chun Oh. "A review of photocatalytic CO₂ reduction: exploring sustainable carbon emission mitigation from thermodynamics to kinetics and strategies for enhanced efficiency." **Journal of the Korean Ceramic Society** (2024): 1-24. **(Impact Factor 2.506)**
30. **T. Anwar**, Manzoor, T., Hussain, N., Shah, S.N., Perveen, S., Asif, S.U., Nosheen, F., Khan, A.J. and Manzoor, H.U., Antimony Trisulfide with Graphene Oxide Coated Titania Nanotube

Arrays as Anode Material for Lithium-ion Batteries. **Journal of Inorganic and Organometallic Polymers and Materials**, (2024). **(Impact Factor 3.9)**

31. Ashraf, A., Manzoor, T., Iqbal, S., **T. Anwar.**, Farooq-i-Azam, M., Khan, Z. and Manzoor, H.U., Magnetic micro-fluidics in 3D microchannel at the micro-scale: Unlocking nano-porous electrode potential for lithium-ion micro-batteries. **Energy Storage**, 6(4), p.e662 (2024). **(Impact Factor 3.6)**
32. Al-Dossari, Mawaheb, **T. Anwar**, Ahmad M. Saeedi, Raed H. Althomali, Gideon FB Solre, Sana Ullah Asif, Ishfaq Ahmed, and Farhat Nosheen. "Structural and magnetic aspects of aluminium substituted dual lanthanum and calcium based hexaferrite nanoparticles for magnetic applications." **Materials Science and Engineering: B** (2024) 310: 117709. **(Impact Factor 6.6)**
33. Bibi, B., **T. Anwar.**, Saeedi, A.M., Althomali, R.H., Solre, G.F., Malik, S., Ibrahim, F.A., Hamdy, M.S., Asif, S.U., Rahman, W.U. and Haider, S., Optimizing efficiency in CHTS-based solar cells through controlling tin content of (Zn, Sn) O buffer layer and integration of SnS as back surface field layer: a numerical approach. **Optical and Quantum Electronics** (2024), 56(10), pp.1-19. **(Impact Factor 3.3)**
34. Raza, A., Manzoor, T., Iqbal, S., **T. Anwar**, Ashraf, A. and Manzoor, H.U., Finite Element Approach for Rheological Behavior in Colloidal Electrolytes in Lithium-Ion Battery Performance. **ACS omega** (2024), 9(33), pp.35809-35820. **(Impact Factor 3.6)**
35. Manzoor, T., Iqbal, S., T. Anwar., Manzoor, S., Mustafa, G., & Manzoor, H. U. (2025). Investigation of Thermal Management Capacity of Casson Electrolytes in Porous Electrodes in Lithium-Ion Battery Applications. *Battery Energy*, e20240082. **(Impact Factor 9)**
36. Saqlain, Misbah, Farhat Nosheen, **T. Anwar**, Aima Areej Mudassar, Ayesha Saddiqa, and Yuqing Chen. "Synthesis strategies and diverse applications of gold nanosheets." *Coordination Chemistry Reviews* 548 (2026): 217172. **(Impact Factor 23.5)**
37. Tauqeer, Muhammad, **T. Anwar**, and Sana Ullah Asif. "Designing Stable Intermetallic Zr₆MTe₂ (M= Co, Ni) Materials: DFT Insights into Electronic Structure, Plasmonic Response, and Thermoelectric Transport: M. Tauqeer et al." *Journal of Electronic Materials* (2025): 1-14. **(Impact Factor 2.5)**
38. Rani, Muqaddas, **T. Anwar**, Farhat Nosheen, Saima Kalsoom, Awais Ahmad, Muneeba Bibi Qureshi, Bushra Munir, Nusrat Shaheen, and Adnan Ashraf. "Green-Synthesized Alternanthera sessilis-Mediated ZnO Nanospheres: Antioxidant Activity, DNA Interaction, and Molecular Docking Studies." *ChemistrySelect* 10, no. 47 (2025): e04099. **(Impact Factor 2.0)**
39. Mughal, Muhammad Awais, **T. Anwar**, Reza Behmadi, Hamed Rahimi, Nayab Mughal, Mehak Sajawal, Peizhong Feng, Yezeng He, and Akbar Hojjati-Najafabadi. "Reduced graphene oxide blended transition metal oxides anode material to uplift performance of the next generation Li-ion storage." *Journal of Energy Storage* 150 (2026): 120103. **(Impact Factor 9.8)**

Books

1. Fawad Azeem, Ghous Bakhsh Narejo, Waleed Rafique, Aizaz Mohiuddin, **Tauseef Anwar:** **Microgrid Design and Challenges for Remote Communities**, 1st Edition, 2021, Taylor & Francis, CRC Press, ISBN 9781003121626.