PERSONAL INFORMATION

Dr. Tahseen Amin Khan Qasuria

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Gender Male | Nationality Pakistani



WORK EXPERIENCE

2012–present (Assistant Prof.) — Ghulam Ishaq Khan Institute of Science and Technology, Swabi (Pakistan)

01/01/2005–31/12/2005 (Internee Fellow) — Pakistan Telecommunication Company Ltd (Pakistan)

EDUCATION

2000–2004 **Bachelors of Telecommunication Engineering**
Institute of Engineering and Technology, Islamabad, (Pakistan).
Thesis Title: Advance Call Management System

2006–2008 **MS Electronic Engineering**
Ghulam Ishaq Khan Institute of Science and Technology, Swabi (Pakistan)
CGPA–3.04/4.0.
Thesis Title: Fabrication of organic Semiconductor Thin Film Hetrojunction Cell using CuPc and NiPc

2008–2012 **PhD / Doctorate Electronics Engineering**
Ghulam Ishaq Khan Institute of Science and Technology, Swabi (Pakistan)
CGPA–3.5/4.0.
Thesis Title: Investigation of the Organic Semiconductor Sensors for the Telemetry System Applications

PROFESSIONAL EXPERIENCE:

- Worked as internee in PTCL Jan 2005 to Dec 2005
- Working as an assistant professor at GIK Institute from 10 Aug 2012 to 31 December 2024.
- Working as an assistant professor at International Islamic University, Islamabad from 12 September 2025 to till date

- Semiconductor stream Head at GIK Institute from August 2012 to April 2022.
- Refurbished Lithography lab at GIK Institute and also the incharge of lithography lab
- Incharge of Semiconductor lab since 2012
- Incharge of the Instrumentation and Measurement Lab Since 2015
- Revised the semiconductor stream course contents
- Have experience of Photolithography, LASI, SEM, AFM, XRD, Vacuum Thermal Evaporator, e-Beam Thermal evaporator, Labview, Matlab, C++, Microsoft office

Association

- Dec-2004 - 24 Nov 2020-Registered Engineer, Pakistan Engineering Council
- 25-Nov 2020- Professional Engineer, Pakistan Engineering Council
- 12-August-2011 Member IEEE.

Local Funded Research Projects

1. Developing The Stealth Technology On The Basis Of Thin Film Sensors For The Telemetry System Applications, 17799/KPK/NRPU/R&D/HEC/2022, HEC NRPU, Worth 14.02 Million Rs, 2022. (PI)
2. Sensor Fabrication through Inkjet Printing Technique, 5548/KPK/NRPU/R&D/HEC/2016, HEC, NRPU Funded Project, Worth 10.8 Million Rs, 2016. (Co-PI)
3. Pak-China Science Foundation Project, worth 1.5 Million, Fabrication of the Lithium-Ion Batteries, 2017. (Volunteer)

4. IEEE USA funded FYP Project (Smart Floor Cleaning Robot), worth 500 $, Co-Supervisor. This Project also won the 1st Position in EMCOT, 2015 held at COMSAT Islamabad, May 2015.

    a. It is also Published in IEEE Magazine, (Uman Khalid, Muhammad Faizan Baloch, Haseeb Haider, Muhammad Usman Sardar, Muhammad Faisal Khan, Abdul Basit Zia and Tahseen Amin Khan Qasuria,"Smart Floor Cleaning Robot (CLEAR)", Student Application Paper, IEEE Standards University E-Magazine, volume 6, issue 1, March 2016.

    b. This Project Won the Innovation Award at 4th Invention to Innovation Summit 2015, Organized by Institute of Research Promotion Pakistan (IRP) in collaboration with (ORIC)-Punjab University, Pakistan Science Foundation (PSF) and IEEE –young Professionals Lahore, 4-5 March 2015.

5. Got the HEC travel Grant of worth 202125.00 Rs for the conference presentation of my research work in Malaysia, 2013.

6. Got the HEC travel Grant of worth 178506.00 Rs. for the conference presentation of my research work in Turkey, 2015.

7. Got training Grant from GIK Institute for the "International Training Course on Applied Vacuum Technologies", worth 8000/00Rs August 26-28, 2014.

8. Got the Grant for the participation in "National Engineering Robotics Contest, 2014 from GIK Institute, worth 15000/00RS, 2014.

9. Got funding from National Grassroots ICT Research Initiative (NGIRI) for the project, “Design and Fabrication of Automated Embroidery Machine”, Project # NGIRI-2020-10166, worth 35000/00Rs., April 2020.

10. Got funding from National Grassroots ICT Research Initiative (NGIRI) for the project, “Design and Fabrication 6 DoF acoustic robotic Arm”, Project # NGIRI-2021-4350, worth 23000/00Rs., May 2021

International Funded Research Projects

1. Got International funding in collaboration with Solar Energy Research Institute (SERI), University of Kebangsaan, Malaysia worth 40500 RM as Co-PI, “Title: Realization of Cost-Effective Broad-Band Ternary Blend of Phthalocyanine based Optimized Organic Solar Cell”, Grant No: GGPM-2020-048, 1/10/2020-31/01/2023, (2020).

Funded Research Projects (Submitted but Got Declined)

1. Development of Direct Inject Writing (DIW) System for Printable Electronics, 1.3 Million Rs. DoST KPK, 2015.

2. Development of the Telemetry System for the academia and Industry, Worth 9.5 Million, NRPU HEC, Pakistan, 2016.

3. The Development of the photolithography lab, worth 5916.00 US$, submitted to “The word Academy of Science (TWAS), COMSTECH”, 2016.

4. Thin Film Sensor Fabrication for the telemetry System Applications, Worth 8.80 Million, 2017 (NRPU, HEC, Pakistan)

5. Design and Fabrication of the Microwave Sensors, Worth 14.5 Million, 2019 (Under the Project of CPEC, Chinese Universities)

International Conference Presentation by Myself

1. Kh. S. Karimov, **T. A. Qasuria**, Zubair Ahmad, "*Impedance Hygrometer based on Natural Organic Material*" Conference Proceeding, WSEAS Application of Electrical Engineering, Penang, Malaysia, pp. 35-39, 2010.

2. Kh. S. Karimov, F. A. Khalid, M. Tariq Saeed, **T. A. Qasuria**, Z. M. Karieva, "*Temperature Sensing Properties of Organic-Inorganic Ag/p-CuPc/n-GaAs/Ag Cell"* International Symposium on Vacuum Science & Technology, ISVST, Pakistan, pp03-05, 2010.

3. **T. A. Qasuria**, Kh. S. Karimov, "*Organic-Inorganic Ag/p-CuPc/n-GaAs/Ag Temperature Sensor for Remote Sensing applications"*4th International conference on functional materials and devices, Penang, Malaysia, 2013.

4. **T. A. Qasuria**, Kh. S. Karimov, "Organic-Inorganic Photoconductive Cell for Remote Sensing Applications", 3rd International conference on nanotechnology, Istanbul, Turkey, 2015.

5. **T. A. Qasuria**, "*Emerging Trends in the Area of Solar Cell Fabrication",* Summer Webinar Series, IEEE, PAF-KIET, Karachi, Pakistan, 2020.

6. **T. A. Qasuria**, Zeeshan Ashraf, Anique Ahmed, "*In situ electrical properties of wide range humidity sensor based on PEDOT: PSS/Bi_2Te3",* 18th International Bhurban Conference on Applied Science and Technology (IBCAST), Islamabad, Pakistan, 2021.

7. T. A. Qasuria, "National Optics and Photonics Engineering Conference 2021, NOPEC 21, Invited Speaker, GIK Institute, Topi, Pakistan, 2021.

8. **T. A. Qasuria,** "International Seminar on Sustainable technologies in Modern Energy: A Roadmap Towards Green Economy" Invited Speaker, 7th -8th March, Pakistan Academy of Science, COMSAT University, Islamabad, Pakistan, 2022.

International / Local Workshops

1. Attended a 5 days workshop on " Research Capacity Building Program for PI", Organized by HEC and British Council, Karachi, Pakistan, 23rd to 27th May, 2022.

2. Attended a 1 day IEEE workshop on "Research Management with IEEE Xplore: Tips & Practices, Organizers IEEE, 11 May, 2022.

3. Attended a 4 days Workshop on "Workshop on Project Management Principles" Held at Institute of space Technologies, Islamabad, 27-30 Dec, 2022

4. Attended a two days Workshop on "OBE & Redefining the Teaching-learning Process to Incorporative learning strategies – Designing and Assessing Complex Engineering Problems, Open Ended Labs and CQI, Organized by GIK Institute, 4th to 5th March, 2022.

5. Attended workshop on "Effective Communication Skills" organized by National Productivity Organization, under the Ministry of Industries and Production, March 2019.

6. Attended Workshop on Quality Assurance of MS/PhD Program from Internal and External Quality Assurance Perspective, GIK Institute, Topi, Pakistan, 2018.

7. Conducted a Workshop on Photolithography at GIK Institute, December 2108.

8. Attended National Workshop on Applied Vacuum Technologies, Islamabad, 22-24 December 2014.

Supervised Undergraduate Final Year Projects

1. Design and Implementation of a Physical Organic Sensor for Telemetry System Applications, 2013.

2. Maximum Power Point Tracking in Solar System (Load Optimization Technique), 2013.

3. Fabrication of Humidity Sensors, 2013.

4. Burner Management System, 2014.

5. GRASP (Gesture controlled Robotic Arm for Special Purposes), 2014.

6. Design of chip by using Photolithographic process, 2015.
7. Design of a thin film transparent solar cell, 2015.
8. Autonomous Phantom Quad copter, 2015.
9. Artificial Nerve Impulse Simulator, 2016.
10. Cost Effective Solution for the Grid Tie Inverter, 2016.
11. 3-D Laser Scanner for the Archeological and Architectural Purposes, 2017.
12. Energy Harvesting Flooring, 2018.
13. Hybrid Solar–wind energy System, 2018.
14. Design and Fabrication of autonomous drone flight controller, 2019.
15. Design and Fabrication of automated embroidery machine, 2020. (Funded Project by Ignite)
16. Design and Fabrication of the IOT base Smart Irrigation System, 2022.
17. Design and fabrication of the glucometer, 2024

Master Thesis Supervised

1. Fabrication and Characterization of Thermoelectric Thin Films of n-type Bi2Te3 Using Thermal Evaporation, 2014. (Mr. Mustufa Haider)
2. Fabrication and Characterization of Thermoelectric Based Heterojunction Solar Cells, 2016. (Mr. Kashif Islam)
3. Fabrication of Inverted Perovskite Solar Cells with Cadmium Sulphide as Electron Transport Layer, 2018. (Mr. Shahid Ahmad)

4. Fabrication of cost-effective Perovskite solar cells using carbon counter electrodes, 2018. (Mr. Nabeel Qureshi)

5. Fabrication and Characterization of Stable Surface Type Sensors for Room and Harsh Environmental Conditions, Jan 2021 (Mr. Zeeshan Ahmad)

6. Fabrication and Characterization of Highly Sensitive Dual Band UV/ IR Optical Sensors, Mr. Aneeq Ahmad, June 2021.

7. Design and Fabrication of the MOF based efficient energy storage devices, Mr. Muhammad Huzaifa, Jan 2025

Master Thesis Co-Supervised

1. Fabrication of Chemical Sensor from meta materials, 2017. (Mr. Usman Ahmad from **Faulty of Electronics Engineering (FEE), GIK Institute)**
2. Fabrication and Characterization of AgNPs-Carbon Composite Based Self Temperature Compensated Strain Sensor through Additive Manufacturing, 2019. (Mr. Nadeem Iqbal from **Faculty of Mechanical Engineering (FME), GIK Institute**)

MS Thesis Evaluated at National / International level

1. Evaluated MS Thesis Title "To study the effects of Antimony in (Tin Antimony Sulphide) Thin Films Solar Cells, Ms. Saima Jamal, Institute of Physics and Electronics, University of Peshawar, 2014.

2. Evaluated MS thesis Title, Fabrication And Characterization Of Furfurylidine Acetone Based Hetrojunction Schottky Diodes, Ehtaramul Haq, University of Peshawar, 2016 Viva-Voce 2017.
3. Evaluated MS thesis of Mr. Nouman Khan Title, Structural, Optical and Impedance Spectroscopy study of Thin Film of Polyaniline (PANI)/ZnO Nano composite, University of Peshawar, 2018.
4. Evaluated MS Thesis of Mr. Masood Khan Title "Fabrication and Electrical Characterization of Silicon / Polyanilne + Zinc Oxide Heterostructure Schottky Diode", University of Peshawar, 2018.
5. Evaluated MS thesis Title, Fabrication And Characterization Of Multifunctional Sensor Based On Dptp Dye Thin Film, Asad Ullah, University of Peshawar, 2019.
6. Evaluated MS thesis Title, Fabrication And Electrical Characterization Of Silicon/Polyanilne+Zinc Oxide Heterostructure Schottky Diode, Shah Khan, University of Peshawar, 2018. Viva conducted 2019
7. Evaluated MS thesis Title, Fabrication And Electrical Characterization Of Silicon/Polyanilne + Zinc Oxide Heterostructure Schottky Diode, Shahid Zaman, University of Peshawar, 2019.

PhD Thesis Evaluated at National / International level

1. Research Committee member for PhD program of Mr. Nouman Ali, Reg No-11-UET-PhD-CP-23, Committee was formulated by Vice Chancellor of UET Taxila, 2012.
2. Instructor of PhD Qualifying Exam of Mr. Mehran Bashir, EE-1739, Faculty of Electronics Engineering, GIK Institute, 2018.

3. Instructor of PhD Qualifying Exam of Mr. Umair Asghar, Faculty of Electronics Engineering, GIK Institute, 2018.
4. Member of the PhD Research Title Defense committee of Mr. Muhammad Riaz, Reg. No. ES-1632, Faculty of Engineering Sciences, GIK Institute, 2018.
5. Member of the PhD. Qualifying Examination Committee as Expert External Examiner of Mr. Muhammad Shakeel, Faculty of Mechanical Engineering, GIK Institute, 2019.
6. Member of the PhD Qualifying Examination Committee, Mr. Adul Muneem, Faculty of Engineering Sciences, GIK Institute, 2019.
7. Member of the Faculty Graduate Research Committee, Evaluated the PhD thesis of Mr. Riaz Ahmad to assess his research work, Faculty of Engineering Sciences, GIK Institute, 2019.
8. Got invited for the Final Defense of the PhD thesis title, Fabrication and Characterization of Graphene Based Nanocomposite Thin Film Electronic Devices, Ishrat Rahim, University of Peshawar, 2019.
9. Member of the PhD Qualifying Examination Committee of Mr. Ahsan Nadeem, Reg. No. EE-1805, Faculty of Electronics Engineering, GIK Institute, 2020.
10. Evaluated PhD Thesis of Mr. Ahsan Nadeem, Reg. No. EE-1805, Faculty of Electronics Engineering, GIK Institute, 2022

Courses Developed at MS and PhD Level

- Thin Film Technology (Offered this course for the first time in FES for graduate students in 2014)
- Organic Solar Cells: Materials and Devices. (Offered this course for the first time in FES for graduate Students in 2021.
- Photonic Devices (Offered this course for the first time in FES for graduate Students in 2022.

Courses Developed at Undergraduate level

- Prepared a summary to add a new course in the undergraduate curriculum with the name Engineering Economy. 2016

- Microelectronics Manufacturing Engineering ES-466 (A new course has been added to the semiconductor stream, 2016.

Developed / Refurbished / Repaired Research Lab

1. Functionalize the Photolithography Lab, 2012-2015 (Time Taken To develop the Lab) and Incharge to till date.
2. Prepared, Monitored and Supervised the Service, repair and up-gradation of FES Research lab Equipment, 2012.
3. Drafted a Three-Year Plan for the purchase of Lab. Equipment for FES Faculty. 2013
4. Functionalized the Vibrating Sample Magnetometer Lab, 2016.

New Undergraduate Lab Development

- Designed a new lab for the Undergrad students of Engineering Sciences with the title, (ES-463 Characterization of Materials Lab), 2017.

National / International Awards

1. My Students Presented their FYP in Malaysian International Conference, 4th International conference on functional materials and devices, "*Organic-Inorganic Ag/p-CuPc/n-GaAs/Ag Temperature Sensor for Remote Sensing applications",* Penang, Malaysia, 2013. (They were also partially sponsored by GIK Institute) and for this I also got the HEC travel Grant of worth 180000.00Rs for the conference presentation.

2. "Smart Floor Cleaning Robot". This Project Won the Innovation Award at 4th Invention to Innovation Summit 2015, Organized by Institute of Research Promotion Pakistan (IRP) in collaboration with (ORIC)-Punjab University, Pakistan Science Foundation (PSF) and IEEE –young Professionals Lahore, 4-5 March 2015.

3. "Smart Floor Cleaning Robot" This Project also won the **1st Position** in EMCOT, 2015 held at COMSAT Islamabad, May 2015.

4. MY Final Year Project got short listed in **top 10** projects among the **500 submitted projects** in PEC National Excellence Award-2017 for Final Year Design Project (FYDP), 2017.

5. Got the HEC travel Grant of worth 215000.00 Rs. for the conference presentation of my research work in Turkey, 2015.

6. Organized a Professional Training Workshop at GIK Institute on Photovoltaic by the Internationally Renowned Company Mavetech, 2016.

7. Organized 1st International Workshop on Functional Reverse Engineering of Machine Tools (WRE 2018) Participated as the organizing Committee Member, 2018.

8. Organizing Committee Member of the "International Photonic Symposium (IPS) 2018.

Patents

- Kh. S. Karimov, Kh. M. Akhmedov, D. Z. Baig, A. Khan,* T. A. Qasuria*, N. Fatima, M. Ali, U. Rao and S. A. Moiz, "Solar hybrid thermoelectric collector", Patent No.887 of the Republic Tajikistan, 17 April, 2016-2018.

Research Journal /Conference Reviewer

- International Journal of Electronics, 2014- 2015.
- Journal of Measurement, 2018 to till date.
- Mathematical Problems in Engineering- Jan 2021 to till date
- International Conference Reviewer for ICEPT 2021.
- Journal of Nondestructive Evaluation, 2022 to till date

Research Center Proposal

- Submitted the Research Center Proposal for the Establishment of the "Aeronautics and Avionics Research Center" in collaboration with the Faculty of Mechanical Engineering (Prof. Dr. Waseem Ahmad) and Faculty of Electrical Engineering (Dr. Arbab Abdur Rahim) in association with NASTP, 2020 (In Process)

Community Work at National or International Level

1. **Advisor Project Topi, (Society for the Community Services of Local and the daily wagers)**
2. **Co-Advisor GIKI Sports Society**
3. **Secretary Faculty Club**
4. **FYP Coordinator and Internship Manager. 2017 to 2022**
5. Coordinated a visit of Vice Chancellor, KFUEIT, Rahim Yar Khan to GIK Institute, 2017.
6. Coordinated a visit of Hon. Muhamad Yousuf Shaikh, Federal Minister for Education & Professional Training, Science and Technology, Health and Climate Change to GIK Institute, 2018.

Industrial Collaboration at National or International level

1. **Pakistan Council for Renewable Energy Technologies PCRET** (National) Since 2012.
2. University of Peshawar (National), Since 2012.
3. SEECS (NUST) (National), Since 2016.
4. Heavy Electrical Complex (HEC-Pak) 2016-2017
5. **Pakistan Aeronautical Complex (PAC) Kamra, Since 2017.**
6. Information Technology University (ITU), Lahore (National), Since 2017.
7. TERP Project, **Heavy Industry Taxila (HIT), Taxila**, 2017-2019
8. Research Collaboration with UET Lahore, 2018.
9. Signed MoU with **National Radio Telecommunication Corporation NRTC**, Since 2021

10. Signed MoU with **Saif Textile**, Since 2020
11. Industrial Collaboration with **NECOP (National Electronic Complex of Pakistan)**, got letter of Appreciation for Providing the Technical Expertise

Research Collaboration Within the Institute

1. Research Collaboration with **Faculty of Electronics Engineering**, Focal Person Prof. Dr. Khasan S. Karimov. Since 2012.
2. Research Collaboration with **Faculty of Mechanical Engineering**, Focal Person Dr. Khalid Rahman. Since 2015.
3. Research Collaboration with **Faculty of Materials and Chemical Engineering**, Dr. Rashid Ali. Since 2018.

Member of the Committees

Instead of above-mentioned R&D and research work I was the member of so many committees at the Faculty level as well as at the Institute level, some of them are listed below.

Institute Level Committee Participation

1. OBE Implementation Committee, Core Group. Member, Since 2014.
2. Undergraduate Prospectus Committee, Member, 2014.
3. Lab Safety Committee, Member, Since 2015.
4. Examination Committee, Member, 2014

5. GIK Entry Test Committee Member for 2014, 2016, Hall Head for 2017, 2019.
6. Incubation Centre Committee, Member, 2016, 2017, 2018, 2019.
7. Participated as an Observer in the PEC visit of the FEE and FME, 2016.
8. OBE/OBA Implementation Committee, 2016.
9. PEC Accreditation Committee, Since 2016.
10. Energy Management Committee, Member, Since 2018.
11. Environment Health and Safety Committee, Member, Since 2015.
12. Industrial Open House Committee (IOH&CF), Member, 2018, 2019,2020, 2021.
13. Member of The Incubator "Entrepreneurial Work Group", Since 2018.
14. GIK Institute Ethics Policy, Member, Since 2019.
15. GIK Institute Online Education System, Student Internet Access Committee, Convener, 2020.
16. GIK Institute Online Education System, Lab/ FYP Evaluation Policy, Member, 2020.
17. Member of the EHS Audit committee since 2018 to till date.
18. Executive Member GIK Carrier Fair Committee, 2022

Faculty Level Committee Participation

1. Faculty Batch Advisor, Since 2013.
2. Board of studies Committee, (Represented Faculty in 2013, (Convener for Semiconductor Stream), 2013.
3. Board of Studies committee, Member. 2015.

4. Non-Functional Lab Equipment, Member, 2015.
5. EHS Committee (Coordinator), Since 2015.
6. Bench Marking of FES Undergraduate Curriculum Convener for Semiconductor Stream, (Also got letter of appreciation from pro-rector), 2016.
7. OBE/OBA Implementation Committee. (Member), Since 2016.
8. OBE Accreditation Committee, Member, 2016.
9. Coordinator for the semiconductor stream of Prospectus Committee, 2016.
10. Curriculum Review Committee (Convener for Semiconductor Stream)
11. Member of the FYP evaluation committee, 2016.
12. Rejoinder preparation committee against the visit of PEC on April 2017, Coordinator, 2017.
13. Coordinator of PLO Review Committee, 2018.
14. Member of the Graduate Admission Committee Fall 2019.
15. **Coordinator for the conduct of OBE Based FYP Committee, Since 2019.**
16. Coordinator of Industrial Visit Committee, 2018.
17. Member of the Graduate Admission Test, 2018.
18. Industrial Advisory Board Committee, 2019**, First time held in the Faculty History,** (Coordinator)
19. Purchasing and maintaining the record of New Books for FES, 2017, 2018, 2019.
20. Member of the FES Program Promotion / Awareness Committee, 2017, 2018, 2019.

21. **FYP coordinator, 2019-2022**

Conducted Continuous Professional Development (CPD) Activities

1. CPD Activity of point 1"Workshop on Photolithography", 2015.
2. CPD activity of Point 1 "Workshop on IC Design and Fabrication", 2016.
3. CPD activity of Point 1 "Workshop on Semiconductor Device Fabrication", 2017.
4. CPD activity of Point 1 "Workshop on Photolithography", 2018.
5. CPD activity of Point 1 "Workshop on IC Fabrication", 2019. CPD Activity of point 1"Workshop on Photolithography", 2020.
6. CPD activity of Point 1 "Workshop on IC Design and Fabrication", 2021.
7. CPD activity of Point 1 "Workshop on Semiconductor Device Fabrication", 2022

Providing the Lab Facility to Other Faculties to conduct their FYP and Lab Experiments of Undergraduate, Graduate and PhD Students.

- I am the Incharge of Photo-lithography Lab and providing the facility to **Faculty of Materials and Chemical Engineering (FMCE), Faculty of Electronics Engineering (FEE) and Faculty of Mechanical Engineering (FME)** for conducting their lab experiments, FYPs and research projects of the undergraduate, graduate and PhD students.

List of Publication

PUBLICATIONS:

Journal

1. I.Murtaza, Kh. S. Karimov, Zubair Ahmad, I. Qazi, M. Mahroof-Tahir, T. A. Khan, **T. Amin**, "*Humidity sensitiveor ganic field effect transistor*" Journal of Semiconductor, Vol. 31, No. 5, 2010. (IF=4.8)

2. Kh. S. Karimov, **T. A. Qasuria**, Zubair Ahmad, "*Impedance Hygrometer based on Cellulose and CuPc*" Journal of Semiconductor. Vol. 31, No. 6, 2010. (IF=4.8)

3. Kh. S. Karimov, **T. A. Qasuria**, "*Cellulose and PEPC based Humidity Sensor for Remote Sensing"* Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 8, p. 1743 – 1746, 12 August 2010. (IF=0.412)

4. Kh. S. Karimov, M. Saleem, **T. A. Qasuria**, M. Farooq, "*Surface type humidity Sensor based on Cellulose-PEPC for Telemetry Systems*" Journal of Semiconductor. Vol. 32, No. 1, 2011. (IF=4.8)

5. Kh. S. Karimov, **T. A. Qasuria**, "The use of *Displacement sensitive organic field effect transistor for telemetry systems applications*" Measurements, vol. 45, pp. 41-46, 2011. (IF=0.836)

6. Kh. S. Karimov, M. Saleem, M. Mahroof-Tahir, **T. A. Qasuria**, Adam Khan and T.A. Khan, "*Displacement-sensitive organic field effect transistor*" International journal of Electronics, Vol.99, No.1, pp. 91-95, 2012 (IF=0.440)

7. Uman Khalid, Muhammad Faizan Baloch, Haseeb Haider, Muhammad Usman Sardar, Muhammad Faisal Khan, Abdul Basit Zia and **Tahseen Amin Khan Qasuria**,"*Smart Floor Cleaning Robot (CLEAR)*", Student Application Paper, IEEE Standards University E-Magazine, volume 6, issue 1, March 2016.

8. Kh. S. Karimov, M. Abid, Dur-e-Zehra Baig, Syed A Moiz, Adam Khan, **T. A. Qasuria**, Khakim M. Akhmedov, Muhammad Ali and Umair Rao, "*Combined Photo-Electric Cell and Thermoelectric Generator for Demonstrative Purposes"* Academia Journal of Scientific Research 5(1): 022-033, January 2017 DOI: 10.15413/ajsr.2017.0160, ISSN 2315-7712, 2017. (IF=4.003)

9. **T. A. Qasuria**, S. Alam, S. A. Qasuria, N. A. Qureshi, K. Islam, Kh. S. Karimov, "*Insitu calibration of humidity with simultaneous effect of resistance and capacitance at different frequencies*" International Journal of Engineering and Applied Science, Vol. 4, No. 8, pp.63-66, 2017. (IF=2.14)

10. Karimov, Kh and Ahmedov, Kh. and Ahmed, N and **Qasuria, TA** and Saeed, A and Bajwa, BA, *Development and testing of a demonstration solar thermoelectric hybrid installation,* Reports of the National Academy of Sciences of the Republic of Tajikistan, Volume 60, Issue 3-4, pp- 145-150 (2017).

11. **Qasuria, T.A**.., Alam, S. and Qureshi, N.A., *Fabrication of Inverted Perovskite Solar Cell with Cadmium Sulphide As Electron Transport Layer*, International Journal Of Applied And Fundamental Research, Vol. 3, 2018. (IF:0.277)

12. Khasan S.Karimov, Zubair Ahmad, M.Imran Khan, Khalid J.Siddiqui, **T. A. Qasuria** S.Zameer Abbass , M.Usman, Aziz-Ur Rehman, *Elastic layered rubber-graphene composite fabricated by rubbing-in technology for the multi-functional sensors*, Heliyon, Volume 5, Issue 1, January 2019. (IF=3.4)

13. **Tahseen Amin Qasuria**, Noshin Fatima, Khasan Karimov, and Muhammad Imran Khan. "*Poles apart gravity based planar organic multifunctional sensor using cobalt (II) phthalocyanine*." Materials Research Express, Volume 6, Number 9 (2019) (IF: 1.449).

14. **T. A. Qasuria,** K. Islam, N. A. Qureshi, S. A. Qasuriac, S. Alam, Khasan S. Karimov, "*Hybrid thermoelectric photovoltaic cell based on organic-inorganic heterojunction*" Journal Of Optoelectronics And Advanced Materials, Vol. 21, No. 7-8, July – August, p. 455 – 458, 2019. (IF=0.588)

15. **T. A. Qasuria**, S. Alam, Kh. S. Karimov, N. Fatima, Y. S. Alharthi, H. F. Alharbi, N. H. Alharthi, N. Amin, Md. Akhtaruzzaman. *Stable perovskite based photodetector in impedance and capacitance mode*, Results in Physics, Volume 15, December 2019. *(IF= **3.042**)*

16. Kh. S. Karimov, N. Fatima, **T. A. Qasuria**, K. J. Siddiqui, M. M. Bashir, Y. S. Alharthi, H. F. Alharbi, N. H. Alharthi, N. Amin, Md. Akhtaruzzaman, *Innovative semi-transparent photo-thermoelectric cells based on bismuth antimony telluride alloy*, Journal of Alloys and Compounds, Volume 816, 5 March 2020. (IF=4.175)

17. Fatima, N., Karimov, K.S., **Qasuria, T.A**. and Ibrahim, M.A., "*A novel and stable way for energy harvesting from Bi2Te3Se alloy based semitransparent photo-thermoelectric module*. Journal of Alloys and Compounds, Volume 849, p.156702, 2020. (I.F = 4.621)

18. Noshin Fatima, **Tahseen Amin Qasuria,** Mohd. Adib Ibrahim, "*A brief review on smart grid residential network schemes"*, Sains Malaysiana, Vol. 89, Issue. 12, pp-2989-2996, 2020 (IF=1.009)

19. **T. A. Qasuria**, N. Fatima, Kh. S. Karimov, M. A. Ibrahim, "*A Novel and Stable Ultraviolet and Infrared Intensity Sensor in Impedance/Capacitance Modes Fabricated from Degraded CH3NH3PbI3-xClx Perovskite Materials*", Journal of Materials Research and Technology, Vol-9, Issue-6, pp 12795-12803, 2020. IF (5.316)

20. N. Pirzada, G. B. Narejo, S. U. A. Shah and T. A. K. Qasuria, "A novel Fabrication Approach for Improving the Efficiency of FAPbI3 Based Perovskite Solar Cells", Journal of Chemical Society of Pakistan, Vol-44 No-2, pp 149-159, 2022. IF (0.612)

21. Iqbal Nadeem, Sajid Memoon, Rahman Khalid, **Amin Qasuria Tahseen**, Muhammad Shakeel, Ahmad Salman, and Amin Mohsin, "*Fabrication of Temperature- and Humidity-Independent Silver Nanoparticle's Carbon Composite-Based Strain Sensor Through Additive Manufacturing Process",* 3D Printing and Additive Manufacturing, https://doi.org/10.1089/3dp.2021.0032, Vol. 10, No. 4, 9 Aug, 2023. (IF=5.449)

22. Muhammad Huzaifa, Muhammad R Abdul Karim, Tahseen A Qasuria, Anique Ahmed, Gul Zeb, Mohsin A Marwat and Ehsan Ul Haq, "Experimental modulation of electrochemical energy storage characteristics of cobalt metal-organic framework-based electrode materials via organic linker variance", Energy and Environment, Vol-1, No.22, 6 August 2025. (IF=4.8)

23. Tariq Chani, Khasan Karimov, Khalid Ahmed Alzahrani, Tahseen Amin Qasuria, Tahseen Kamal, Naved Azum, Syed Zameer Abbas, Hadi M. Marwani, "Design, fabrication, and characterization of rubber-CNTs and paper-CNTs nanocomposite-based five-layered proximity sensors for various applications", Journal of Materials Science: Materials in Electronics, Vol.36 (34) DOI: 10.1007/s10854-025-16232-6, November 2025. (IF=2.9)

24. Anique Ahmed, Tahseen Amin Khan Qasuria, Zeeshan Ashraf, Khasan S. Karimov, Noshin Fatima, Enhanced UV–visible to infrared detection in PEDOT: PSS/Bi_2Te_3-based hybrid sensor, Materials Research Bulletin, DOI: 10.1016/j.materresbull.2025.113784, Vol. 194, February 2026. (IF=5.7)

Conference

1. Kh. S. Karimov, I. Qazi, M. Mahroof-Tahir, I. Murtaza, **T. Amin**, "*opto Electronic Properties of ITO/CuPc/NiPc/Al and ITO/NiPc/CuPc/Al Double junction Cells*" Conference Proceeding, ICEENG, Egypt, p.EE014-1-EE014-13, 2008.

2. Kh. S. Karimov, **T. A. Qasuria**, Zubair Ahmad, "*Impedance Hygrometer based on Natural Organic Material*" Conference Proceeding, WSEAS Application of Electrical Engineering, Penang, Malaysia, pp. 35-39, 2010.

3. Kh. S. Karimov, F. A. Khalid, M. Tariq Saeed, **T. A. Qasuria**, Z. M. Karieva, "*Temperature Sensing Properties of Organic-Inorganic Ag/p-CuPc/n-GaAs/Ag Cell"* International Symposium on Vacuum Science & Technology, ISVST, Pakistan, pp03-05, 2010.

4. **T. A. Qasuria**, Kh. S. Karimov, "*Organic-Inorganic Ag/p-CuPc/n-GaAs/Ag Temperature Sensor for Remote Sensing applications"* 4th International conference on functional materials and devices, Penang, Malaysia, 2013.

5. **T. A. Qasuria**, Kh. S. Karimov, "Organic-Inorganic Photoconductive Cell for Remote Sensing Applications", 3rd International conference on nanotechnology, Istanbul, Turkey, 2015.

6. **T. A. Qasuria**, "Emerging Trends in the Area of Solar Cell Fabrication", Summer Webinar Series, IEEE, PAF-KIET, Karachi, Pakistan, 2020.

7. **T. A. Qasuria**, Zeeshan Ashraf, Anique Ahmed, "*In situ electrical properties of wide range humidity sensor based on PEDOT: PSS/Bi_2Te3", 18th International Bhurban Conference on Applied Science and Technology (IBCAST), Islamabad, Pakistan, 2021.*

8. **T. A. Qasuria,** "International Seminar on Sustainable technologies in Modern Energy: A Roadmap Towards Green Economy" Invited Speaker, 7th -8th March, Pakistan Academy of Science, COMSAT University, Islamabad, Pakistan, 2022

9. T. A. Qasuria, "The Future Perspective of Electronic Industry in Pakistan" Summer Webinar Series, IEEE, PAF-KIET, Karachi, Pakistan, 2023.

Summary of Research Publications

International Journal Publications			National Journals		Conference Papers	
Total	HEC/ISI Journals	Impact Factor	Total	Impact Factor	International	National
23	19	56.976	1	0.612	3	6