

Curriculum Vitae

Full Name	Prof. Dr. Engr. AbidLatif
Current Position	Professor, Department of Civil Engineering, BZU, Multan (Since 14-09-2017)
Designation	Professor (Since 14-09-2017)
E-mail	abid.latif@bzu.edu.pk
PEC No.	Civil/23532
Faculty	Civil Engineering
Academic Qualifications	<ul style="list-style-type: none"> • Ph.D. Civil Engineering, January, 2014 (University of Engineering and Technology, Lahore) • M.Sc. Civil Engineering, January, 2005 (University of Engineering and Technology, Lahore) • B.Sc. Civil Engineering, November, 2001 (University of Engineering and Technology, Lahore)
Training Courses	<ul style="list-style-type: none"> • 27 days training course on “Teaching Skill and Management Training Program” from Technical Education and Vocational Training Authority (TEVTA) in 2005 at Lahore • 30 days training course on “Primavera” from Pakistan Engineering Congress (PEC) in 2004 at Lahore • One day training course for Program Evaluators by National Technology Council in 2023 at ISP Multan • International chemistry conference forefronts of chemistry in 2019 at Institute of Chemical Sciences, BZU Multan.
Main Specialization	Civil Engineering Water Resource Management and Irrigation Engineering
Awards/ Achievements	<ul style="list-style-type: none"> • Letter of Appreciation from UET Lahore for successfully holding ECAT-2017 in UCE&T, BZU, Multan. • Letter of Appreciation from Pakistan Engineering Council for Member Engineering Professional Development Committee (2021-2024). • During my tenure as principal college of engineering and technology (UCET), I coordinated with responsible of various International universities and sent four faculty members of college of Engineering to complete their PhDs through faculty Development Program.
Research Grants	<ul style="list-style-type: none"> • NRPU HEC Research Grant of Rs: 3.01 million • BZU Research Grant of Rs: 0.15 million • Rapid Technology Development Grant (RTDG, HEC) of Rs: 20.00 million (under review)

<p>Working Experience and Administrative Professional</p>	<ul style="list-style-type: none"> • Academic Full Time: 19years, 06months, 04days (up-till 26-08-2024) <ul style="list-style-type: none"> ○ Professor (BS-21), BZU 14.09.2017 to-date ○ Associate Professor (BS-20), BZU 01.04.2016 to 13.09.2017 ○ Assistant Professor (BS-19), BZU 07.07.2008 to 31.03.2016 ○ Lecturer (on contract), BZU 01.03.2006 to 06.07.2008 ○ Lecturer, GCT, Rasul 16.02.2005 to 28.02.2006 • Administrative: <ul style="list-style-type: none"> ○ Chairman Dept. of Civil Engg. BZU 17.01.2020 to 05.04.2023 (03 Y, 02 M, 19 D) ○ Principal College of Engg. & Tech., BZU 12.04.2016 to 11.04.2019 28.09.2019 to 21.12.2019 (03 Y, 02 M, 23 D) ○ Director Maintenance, BZU 22.10.2015 to 14.01.2019 (03 Y, 02 M, 23 D) • Industrial Full Time: 3years, 01month, 27days (QAMAR ENTERPRISE Govt. Contractors & Engineers) • HEC Approved PhD Supervisor 08-11-2023 to 08-11-2026 • Program Evaluator (PEV) & Expert for the Accreditation of Civil Engineering Programs by Pakistan Engineering Council (PEC) since 2023 (Total Accreditation Visits : 03) • Member, Syndicate (in the category of Eminence persons) of the MNSUET; Multan for a period of three years (i.e.,07.08.2019 to 06.08.2022) • Member, Punjab Public Service Commission (since 2014 to date) • Expert as Member for the Academic Council of the Punjab Tianjin University of Technology, Lahore for a period of three years (i.e.,26.06.2020 to 25.06.2023) • Chairman, Board of Study, Department of Civil Engineeringw.e.f: 11-02-2020 to 05-04-2023 • Chairman, Board of Study, Department of Electrical Engineering, Department of Computer Engineering, Department of Mechanical Engineering and Department of Building and Architectural Engineering, BZU; Multanw.e.f: 30-09-2016 to 11-04-2019. • Member, Board of Study, Department of Civil Engineering, IET; NFC, Multan w.e.f. 01-03-17 to date. • Member, Academic Council, BZU; Multanw.e.f: 12-04-2016 to date. • Member,Senate, BZU, Multan w.e.f: 12-04-2016 to date. • Member Board of Studies of Civil Engineering Department, BZU, Multan w.e.f06-04-2023 to-date • Member, Library Committee for period of three years, w.e.f: 10-07-2023. • Member, Academic Council, MNS, UET, Multan. • Member, Board of Faculty of Engineering and Technology, BZU, Multanw.e.f: 10-08-2017 to date. • Member, Board of Study, Department of Civil Engineering, IUB, Bahawalpur. • Member, Board of Study, Department of Civil Engineering, University of Management and Technology (UMT), Lahore.
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	<ul style="list-style-type: none"> • Member, Research and Monitoring Committee (RMC) for the Evaluation of Ph.D. Scholars in UET;Taxila, Pakistan • Chairman, Campus Construction Committee and Technical Committee,BahauddinZakariya University, Multan, Pakistanw.e.f: 22-02-2017 to 06-03-2019. • Chairman, Tender opening Committee,BahauddinZakariya University, Multan, Pakistanw.e.f: 21-04-2017 to 21-02-2019. • Member,CampusConstruction Committee,BahauddinZakariya University, Multan, Pakistanw.e.f: 12-12-2019 to 15-09-2020. • Member, CampusConstruction Committee, MNS-UET, Multan, Pakistan. • Life-Time Membership, Pakistan Engineering Council • Member Engineering Professional Development Committee w.e.f: 2021 to 2024. • Acted as Resource Person for Continuing Professional Development (CPD) activity Managed by Pakistan Engineering Council on thefollowing topic: <ol style="list-style-type: none"> 1. “Performance Evaluation of On-Farm Water ManagementInterventions in Punjab” on 21-12-2015” 2. “Scarcity of Water in Pakistan” on 10-01-2018 3. “Reuse of Wastewater for Irrigation Purposes” on 29-11-2019 4. “Technical Aspects of Water Dispute between India and Pakistan” on 16-12-2016
<p>Courses Taught</p>	<ul style="list-style-type: none"> • Hydraulic Structural Design • Advanced Fluvial Hydraulics • Irrigation Engineering and Practice • Water Resources Planning & Management • River Engineering & Flood Management • Hydropower Engineering • Dam Engineering

<p>Academic Research, and Professional Activities</p>	<p><u>Research Interest:</u></p> <ul style="list-style-type: none"> • River Morphology • Sediment Transport in Channels and Reservoirs • Water Resource Management • Numerical Simulation of Irrigation Canals <p><u>Research Thesis Supervised:</u></p> <p>M.Sc./M.Phil.: Following Nineteen M.Sc./M.Phil. thesis has been Supervised:</p> <ol style="list-style-type: none"> 1. “Evaluation and analysis of water management strategies on irrigation canal system (a case study of lower Chenab canal in Punjab)” completed in 2020. 2. “Qualitative parameters of SurajMayani waste water treatment plant for irrigation” completed in 2020. 3. “Evaluation of Flushing Feasibility for Small Reservoirs in Punjab under Punjab Irrigation Department” completed in 2018. 4. “Flood Mitigation Measures of BaroachNallah/Hill Torrent in District Mianwali” completed in 2018. 5. “To Study the Climate Change Impacts on the river flow of Indus Basin” completed in March 2021. 6. “To study the hydrological analysis for the selection of most promising Hydel Potential site at KunharRiver, Naran” completed in March 2021. 7. “To investigate the waterway of the river Chenab bridges for optimal afflux using experimental and numerical modeling” completed in 2021. 8. “To study the discharge measurement techniques on the Punjab barrages” completed in 2021. 9. “To study the optimizing hydropower production of a cascade system” completed in 2021. 10. “Performance evaluation of hot mix asphalt incorporating waste polythene” completed in 2021. 11. “A study on the effect of fiber addition on the performance of pavement material” completed in 2022. 12. “Evaluation of parameters for optimizing hydropower potential” completed in 2022. 13. “Impact of water logging on canal command” completed in 2022. 14. “To study the erosion action of river Chenab adjacent to Dadal flood bund in District Jhang” registered in 2021 at the CED, BZU completed in 2023. 15. “To study the hydraulic simulation of Panjnad main canal using HEC-RAS” registered in 2021 at the CED, BZU completed in 2023. 16. “To study the flood risk mapping of Koh-e-Suleiman catchment frequency analysis of 2022 floods” registered in 2022 at the CED, BZU completed in 2023. 17. “To study one and two-dimensional dam break flow analysis using HEC-RAS (a case study of Rawal dam)” registered in 2021 at the CED, BZU completed in 2023. 18. “A study of suitability of sewage water for irrigation purpose registered in 2021 at the CED, BZU completed in 2023. 19. “To study the performance evaluation of wet seeding intervention in irrigation system” registered in 2021 at the CED, BZU completed in 2023. 20. “To Assess the Flood Risks in the Satluj River Basin through Integrated Hydraulic Modelling” registered in 2022 at the CED, BZU. 21. “To Investigate the Energy Dissipation in Arced Stepped Weirs (ASW)” registered in 2022 at the CED, BZU.
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22. “To Study the Flood protection modelling of waste water Treatment Plant (WWTP) of WASA Multan”registered in 2022 at the CED, BZU.
23. “To Study the Performance evaluation of Arced Piano key weir for Energy Dissipation in Open Channel”registered in 2022 at the CED, BZU.
24. To Study the Flood Prediction in the Jhelum River Basin with GIS and HECRAS Modelling”registered in 2022 at the CED, BZU.

Ph.D. Research Thesis Under Supervision as RMC Member In UET TAXILA:

1. “Evaluation of Pier modification techniques to reduce scour by using experimental and numerical modelling” registered in 2015 at University of Engineering and Technology, Taxila, Pakistan (Completed)
2. “Development of Effective Scheme for Sediment Management in Large Reservoirs: A Case Study of Tarbela Reservoir, Pakistan” registered in 2015 at University of Engineering and Technology, Taxila, Pakistan (In progress)
3. “Impact of Climate Change on Stability of Roads in the Selected Part of Pakistan” registered in 2015 at University of Engineering and Technology, Taxila, Pakistan (In progress)
4. “Development of Scour Equations around Bridge Piers by using Logarithmic Regression Analysis” registered in 2016 at University of Engineering and Technology, Taxila, Pakistan (In progress)
5. “Investigating the sediment transport behavior in irrigation canals of Punjab” registered in 2017 at University of Engineering and Technology, Taxila, Pakistan (In progress)
6. "Investigation of flow characteristics in vegetated meandering channels". UET, Taxila (In progress)

Research Thesis Under Supervision In BZU Multan:

Ph.D.:

1. “Efficient On-Farm water management using artificial intelligence based wireless sensors in different textured soils” registered in 2022 at the CED, BZU (In progress).
2. “Experimental and numerical evaluation of damaged RCC composite columns rehabilitated with advanced composite sustainable materials under concentric, eccentric and lateral flood loads” registered in 2022 at the CED, BZU (In progress).
3. “To study the flood risk mapping of Koh-e-Suleiman catchment frequency analysis of 2022 floods” registered in 2022 at the CED, BZU (In progress).
4. “To study the axial compressive behavior of bio based concrete in hydraulic and marine structures” registered in 2022 at the CED, BZU (In progress).
5. “To study the distribution of discharge in compound channels” registered in 2022 at the CED, BZU (In progress).

M.Sc./M.Phil.:

1. “Study of various Hill Torrents flood management plans for District Rajanpur”registered in 2022 at the CED, BZU (In progress).
2. “To Study the Hydrologic Assessment of Environmental Flow for Downstream Ecosystem of Indus River at Tounsa Barrage”registered in 2022 at the CED, BZU (In progress).

B.Sc.:

1. Supervised Eighty (80) students in B.Sc. Civil Engineering

Thesis Evaluation as an External Examiner:

M.Sc./M.Phil.:

1. “**Water Management for Upstream Control Irrigation Systems**” evaluated in 2015 at University of Engineering and Technology, Taxila, Pakistan.
2. “**Impact of Climate Change on Precipitation in Arid Areas of Pakistan**” evaluated in 2015 at University of Engineering and Technology, Taxila, Pakistan
3. “**Experimental Investigation of Channel Bank Vegetation on Scouring Characteristics around wing wall abutments**” evaluated in 2018 at University of Engineering and Technology, Taxila, Pakistan
4. “**High Performance Concrete with Hybrid Fiber Reinforcement for Rehabilitation of Bridges and Structures**” evaluated in Sep, 2020 at University of Management and Technology (UMT), Lahore, Pakistan
5. “**Evaluation of Hybrid Fiber Reinforced Concrete in Rehabilitation of Irrigation Canal Lining**” evaluated in Sep, 2020 at University of Management and Technology (UMT), Lahore, Pakistan

Conference Papers

1. Ghumman A.R; Javed S; Hassan I; Hashmi.N; and **Latif. A** “Impact of climate change on precipitation in Jhelum”, National Multidisciplinary Engineering Conference (NMEC-15), 20-21th November, 2015, School of Engineering, University of Management and Technology (UMT), Lahore; Pakistan.
2. AsimQayyum Butt, Allah Bachaya, **AbidLatif**, Amna, AleezaKainat, sarfaraz Ali and Muhammad Arif “Reuse of Wastewater for Irrigation Purposes in Pakistan” Centre of Excellence, UET, Lahore; CEWRE/ICHWR/21/020/pp: 133-146; ISBN: 978-969- 8670-06- 01 March 25, 2021.

Research Publications:

A. Publications in HEC recognized Local Journals:

1. **AbidLatif**, Abdul SattarShakir, & Muhammad Usman Rashid, 2013, Appraisal of economic impact of zero tillage, laser land levelling and bed-furrow interventions in Punjab, Pakistan, Published in Pakistan Journal of Engineering & Applied Sciences. Vol. 13, July 2013 (Pp. 65-81).
2. Usman Ghani, Shahid Ali &**AbidLatif**, 2013, Impact of Vegetation Density on Flow Characteristics in a Straight Compound Channel, Published in Mehran University Research Journal of Engineering and Technology. Vol. 32, No. 4, October 2013 ISSN 0254-7821(Pp. 631-638).
3. Shahid Ali, Usman Ghani&**AbidLatif**, 2014, Effect of a Weir- type Obstruction with Different Geometric and Hydraulic Conditions on Flow Structure in an open Channel, Published in Mehran University Research Journal of Engineering and Technology. Vol. 33, No. 3, July 2014: ISSN 0254-7821 (Pp. 286-293).
4. Tahir Sultan, **AbidLatif**, Abdul SattarShakir, KheledKheder& Muhammad Usman Rashid, 2014, Comparison of Water Conveyance Losses in Unlined and Lined

	<p>Watercourses in Developing Countries, Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 19, Issue No. II-2014 (Pp. 23-27).</p> <ol style="list-style-type: none"> 5. AbidLatif, M. Usman Rashid, KheledKheder, Tahir Sultan & Fatima Mehvish; 2014, Development of Compressive Strength for Concrete with different Curing Durations, Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 19, Issue No. II-2014 (Pp. 40-44). 6. Tahir Sultan, AbidLatif, Muhammad Usman Rashid, Usman Ghani, Tanveer Ahmad Khan &KheledKheder, 2014, Experimental Study of Silty Clay Stabilization with Cement and Lime in Multan, Pakistan: Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 19, Issue No. III-2014 (Pp. 28-33). 7. AbidLatif, Tahir Sultan, Abdul SattarShakir, Abdul RazzaqGhuman& Muhammad Usman Rashid, 2014, Safe Disposal and Recycling of Water Disaster Debris in Pakistan, Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 19, Issue No. IV-2014 (Pp. 1-8). 8. Usman Ghani, HashimNisar, AbidLatif&NaeemEjaz, 2014, Investigating the Suitability of Grid and Boundary Conditions on Simulation of a Curved Open Channel, Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 19, Issue No. III-2014 (Pp. 40-44). 9. Muhammad Usman Rashid, AbidLatif, Usman Ghani, Shahid Ali, Aamad Hassan Khan & F. Shabbir “Optimization Strategies for Improving Irrigation Water Management of Lower Jhelum Canal” Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 20, Issue No. I-2015 (Pp. 81-90). 10. Muhammad Usman Rashid, AbidLatif, Usman Ghani, M. Munir& Tahir Sultan “Evaluation of Options for Remodeling of Upper Jhelum Canal, Pakistan” Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 20, Issue No.II-2015 (Pp.1-7). 11. AbidLatif, Akhtar Ali Malik, Muhammad Usman Rashid, Tahir Sultan, Usman Ghani&Shahid Ali, Development of Bed-Furrow Intervention in the Rice-Wheat Cropping System in Punjab, Pakistan, Published in Technical Journal, University of Engineering and Technology, Taxila. Vol. 20, Issue No. III-2015 (Pp. 106-110). 12. Tahir Sultan, Mumtaz Ahmad Kamal &AbidLatif, 2016, Performance Evaluation of Cold Recycled Asphalt Mixes at Different Temperatures and Loading Rates, Published in Pakistan Journal of Engineering & Applied Sciences. Vol. 18, January 2016 (Pp. 21-30). 13. Muhammad Usman Rashid, AbidLatifand Usman Ghani, 2016, Sustainable and Optimized Utilization of Water Resources: Inflatable Dams Potential in Pakistan, Published in Pakistan Academy of Sciences Journal, Vol.53, No.3-2016 ISSN: 2518-4261 (print), ISSN 2518-427X (online) (Pp. 149-161). 14. M. A. Siddique, Usman Ghani, AbidLatif, Shahid Ali, Tahir Sultan & M. Usman Rashid, 2016 “Laboratory Study of Head loss for Trapezoidal Weirs with Vegetation Elements” published in Technical Journal, University of Engineering and Technology, Taxila. Vol.21, Issue No. III-2016 (Pp. 35-40). 15. A. Bachaya, H.N. Hashmi, M.A. Baluch, Z. Ali and AbidLatif, “Flow characteristics over the Weir with Semi-Circular Crest in Normal and Oblique Plane” Published in
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	<p>Technical Journal, University of Engineering and Technology, Taxila. Vol.24, Issue No.I-2019 (Pp. 1-8).</p> <p>16. A. Hussain, G.A. Baig, M.I. Sarwar, D. Iqbal, T. Sultan and A. Latif, “A Method for the classification of fabric Hand based on it drape” Published in Technical Journal, University of Engineering and Technology, Taxila. Vol.25, Issue No.II-2020 (Pp. 121-125).</p> <p>17. F. Farooq, G. A. Baig, A. Latif, T. Sultan, A. Hussain, L. Liu “Preparation and Characterization of Lyocell Fabrics Coated with Cellulose Nano-Crystals and Chitosan as Functional Materials” Published in Technical Journal, University of Engineering and Technology, Taxila. Vol.25, Issue No.IV-2020 (Pp. 21-25).</p> <p>18. J. Ahmad, K. A. Rao, J. A. Khan, S. H. Bukhari, M. T. Jamil, U. Nissar, H. Abbas, T. Sultan and A. Latif “Effect of Erbium Doping on Physical Properties of LaFeO₃” Published in Pakistan Journal of Science. Vol.73, Issue No.1, March-2021 (Pp. 161-168).</p> <p>19. J. Ahmad, S.H. Bukhari, H. Abbas, J.A. Khan, U. Nissar, S. Manzoor, T. Sultan and A. Latif “Effect of Chelating Agents, Sintered Temperature and Heat Treatment Duration on the Structural and Electrical Properties of BiFeO₃” Published in Pakistan Journal of Science. Vol.73, Issue No.1, March-2021 (Pp. 169-176).</p> <p>20. J. Ahmad, W. Javed, S. H. Bukhari, U. Nissar, J.A. Khan, H. Abbas, T. Sultan and A. Latif, “Dielectric Spectroscopic Analysis of La_{0.75}Ba_{0.25}Fe_{1-x}CO_xO₃ (X = 0.0, 0.05, 0.1, 0.15, 0.20, 0.30)” Published in Pakistan Journal of Science. Vol.73, Issue No.1, March-2021 (Pp. 186-191).</p> <p>21. J. Ahmad, S.A. Ali, S.H. Bukhari, H. Abbas, J.A. Khan, U. Nissar, T. Sultan and A. Latif “Structure, Phonon Vibration and Electrical Properties of Ba²⁺Doped Bismuth Ferrite” Published in Pakistan Journal of Science. Vol.73, Issue No.1, March-2021 (Pp. 192-198).</p> <p>22. P. Akhtar, J. Ahmad, M.U. Rashid, A. Latif, T. Sultan, M.A. Ali, R. Farooq, A. Bachaya and M. K. A. Khan “Evaluation of Sediment Flushing Feasibility of Small Reservoirs in Potohar Plateau of Pakistan” Published in Technical Journal, University of Engineering and Technology, Taxila. Vol.26, Issue No.I-2021 (Pp. 23-37).</p> <p>23. Zulkifl Ahmad, Sumra Yousuf, Mahwish Zahra, Anum Aleha, Abid Latif, Tahir Sultan, Tanveer Ahmad Khan, M Yousaf Raza Taseer, “ Determination of critical slip surface in loose rock slope stability analysis” proceedings of Pakistan Academy of Sciences: A Physical and computational sciences 61(2): 145-152 (2024) ISSN: 2518-4245</p> <p>B. Publications in HEC recognized Impact Factor Foreign Journals:</p> <p>24. Muhammad Usman Rashid, Abdul Sattar Shakir, Noor Muhammad Khan, Abid Latif & Muhammad Mubashir Qureshi, 2015, Optimization of Multiple Reservoirs Operation with Consideration to Sediment Evacuation, Published in Water Resources Management Journal, Vol.29, No.7 March 2015: ISSN 0920-4741 (Pp. 2429-2450).</p> <p>25. Shahid Ali, Usman Ghani, Abid Latif, Naeem Ijaz & Ghufraan Ahmad Pasha, 2013, An Experimental Study of Turbulent Flow over a Weir-Like Structure with and Without Vegetation, Published in Life Science Journal. 2013; 10 (9s): ISSN:1097-8135 (Pp. 315-323).</p>
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26. Usman Ghani, Shahid Ali & AbidLatif, 2013, Investigation for Required Number of Patches for Numerical Modelling in an Open Channel with Checker-Board Type Bed Formation, Published in Life Science Journal. 2013; 10 (10s): ISSN:1097-8135(Pp. 220-226).
27. Shahid Ali, Usman Ghani & AbidLatif, 2013, Study of Turbulent Kinetic Energy and Reattachment Length Downstream the Obstruction in an Open Channel, Published in Life Science Journal. 2013; 10 (10s): ISSN:1097-8135(Pp. 235-240).
28. Muhammad Usman Rashid, AbidLatif & Muhammad Azmat, 2018, Optimizing Irrigation Deficit of Multipurpose Cascade Reservoirs, Published in Water Resources Management Journal, Vol.32, No.5, January 2018: ISSN 0920-4741 (Pp. 1675-1687).
29. NavedAnjum, Usman Ghani, Ghufran Ahmed Pasha, AbidLatif, Tahir Sultan & Shahid Ali, 2018, To Investigate Flow the Structure of Discontinuous of Vegetation Patches of Two vertically Different Layers in an Open Channel, Published in Water Journal, Vol.10, No.1, January 2018:(Pp. 75) doi:10.3390/w10010075.
30. NavedAnjum, Usman Ghani, Ghufran Ahmed Pasha, Muhammad Usman Rashid, AbidLatif, & M. Zubair Yousaf Rana, 2018, Reynolds stress modeling of flow characteristics in a vegetated rectangular open Channel, Published in Arabian Journal for Science and Engineering, Vol.43, issue 10 April 2018: (Pp. 5551-5558).
31. M. Junaid Iqbal Khan, Zarfishan Kanwal, Masood Yousaf, Azeem Nabi, Javed Ahmad, AbidLatif, Hamid Ullah, 2020, Investigating structural, electronic and optical properties of CdS:Cr (A GGA and GGA+U study), Published in Solid State Sciences Journal (ELSEVIER), Vol. ..., issue... October 2020: (Pp. 1-8).
32. M. Junaid Iqbal Khan, Zarfishan Kanwal, AbidLatif, Javed Ahmad, Perveen Akhtar, Masood Yousaf, Hamid Ullah, 2021, Investigations on electronic structure, magnetic and optical properties of C and Ti Co-doped Zincblende GaN for optoelectronic applications Published in Computational Condensed Matter Physics Journal (ELSEVIER), Web Site: <https://doi.org/10.1016/j.jlco.2021.166425>, Vol..., February, 2021: (Pp. 1-12).
33. M. Junaid Iqbal Khan, Zarfishan Kanwal, Masood Yousaf, Hamid Ullah, Javed Ahmad, AbidLatif, Yong-Han Shin and Ata Ur Rahman Khalid, 2021, Effect of Zn doping on electronic structure and optical properties zincblende GaN (A DFT + U insight), Published in Communications in Theoretical Physics Journal, Vol. 73, issue... February, 2021: (Pp. 1-9).
34. AbidLatif, M. Junaid Iqbal Khan, Zarfishan Kanwal, Murtaza Saleem, Javed Ahmad, Hamid Ullah, Zartasha Mustansar, 2021, First principle investigations of the structural, electronic, magnetic, and optical properties of GaN co-doped with carbon and gold (C–Au@GaN) Published in Computational Condensed Matter Physics Journal (ELSEVIER), Web Site: <https://doi.org/10.1016/j.cocom.2021.e00565>, Vol. 28, May, 2021: (Pp. 1-6).
35. R. Farooq, A.R. Ghumman, M.A.U.R. Tariq. A. Ahmad, A. Latif, A Masood, 2021, “Performance Evaluation of Scour Protection around a Bridge Pier through Experimental Approach” Published in Technical Gazette Journal Web Site: <https://doi.org/10.17559/TV-20200213211932>, ISSN 1330-3651 (Print), ISSN 1848-6339 (Online), Vol. 28, Issue 6, 2021: (Pp. 1975-1982).

36. A. Latif, M.J.I. Khan, Z. Kanwal, I. Majeed, M. Saleem, N. Usmani, J. Ahmad, Z. Mustansar, H. Ullah, “Investigating effect of different hubbard values on the electronic structure, magnetic and optical properties of Ru doped GaN” Published in Computational Condensed Matter, <http://doi.org/10.1016/j.cocom.2021.e00608>, Vol. 29, Issue 2021, e00608 (Pp. 1-8)
37. M.U. Rashid, I. Abid, A. Latif, “Optimization of hydropower and related benefits through cascade reservoirs for sustainable economic growth” Published in Renewable Energy, <http://doi.org/10.1016/j.renene.2021.12.073>, Vol. 185, (Pp. 241-254)
38. M.J.I. Khan, J. Liu, A. Latif, I. Majeed, H. Ullah, M. Asghar, J. Ahmad, “Investigating structural, electronic, magnetic, and optical properties of Co-doped and Co-X (X=Fe,Mn) co-doped MoS₂ for optoelectronic applications” Published in Journal of Molecular Modelling, <http://doi.org/10.1007/s00894-022-05312-7>, Vol 28, Issue 310, (Pp. 1-10)
39. M.J.I. Khan, J. Liu, S. Batool, A. Latif, I. Taj, M. Waseem, I. Majeed, H. Ullah, J. Ahmad, Z Mustansar, An insight into the structural, electronic, magnetic and optical properties of Cs doped and Cs-X (X=Mn, Fe) co-doped Cds for optoelectronic applications” Published in Solid State Sciences, 2022
40. M.J.I. Khan, H.S. Batool, J. Liu, P. Akhtar, A. Latif, J. Ahmad, I. Taj, S. Khalid, U. Gull, M.W. Akhtar, H. Tehreem, H. Ullah, M. Usmani, “Exploring structural, electronic, magnetic, and optical properties of CeO₂-X(X=Pt/Ni) doped at Pt-Ni co-doped CeO₂ for optoelectronic applications” Published in PhysicaScripta, Vol 98, 2023, (Pp 045914)
41. SumraYousuf ,PayamShafigh , ZakariaCheMuda , HerdaYatiBintiKatman and AbidLatif, “Alternatives for Fresh Water in Cement-Based Materials: A Review” Water 2023, 15, 2828. <https://doi.org/10.3390/w15152828>
42. M. Junaid Iqbal Khan, HafizaSaimaBatool, Imran Taj, AbidLatif, Javed Ahmad, M. Yousef, Urva Gull, Perveen Akhtar, Juan Liu, HiraKiran, Asif Rasheed, Sana Khalid, HadeeqaTehreem, Hamid Ullah, “Exploring structural, electronic, magnetic, and optical response of GaN-X (X=Sr, ba, cs, mg) materials for optoelectronic applications” published in Physica B: Condensed Matter Physica B 672 (2024) 415415