

Curriculum Vitae



(A) Personal Data:

Name in full:	Dr.Zafar Wazir
Father's Name:	Muhammad Sultan
Date of Birth:	06-01-1980
Domicile:	Khushab,Punjab,Pakistan
National Identity Card No. CNIC	3 8 2 0 2 - 9 4 9 9 8 2 1 - 7
Mailing / Postal Address:	Block # 29, Plot # 23, H # 16, Near Masjid Buit-ul-Mukhram,Heavy Factory Area,Jauharabad,District Khushab.
Official address:	Department of Physics, Faculty of Basic and Applied Sciences(FBAS), International Islamic University,H-10 , Islamabad, Pakistan.
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E-mail:	zafar_wazir@yahoo.com &zafar.wazir@yahoo.com

(B) Academic Qualifications:

Degree/Certificate	Division	Passing Year	Institute/Board	Subjects
M.Phil Leading to PhD	1 st	(2011)	COMSATS Islamabad	Physics
M.Sc	2 nd	(2003)	Govt,College Sargodha	Physics
B.Sc	1 st	(2000)	Govt,College Sargodha	Phys,Math(A+B)
F.Sc	1 st	(1997)	Govt,College Sargodha	Pre-Eng
Matric	1 st	(1995)	Sargodha Board	Science
B.Ed	1 st	(2005)	AIOU Islamabad	Science

(C) Ph.D. Details:

Name of the University: COMSATS Institute of Information Technology, Islamabad

Thesis Title: Study of some properties of central carbon-carbon collisions at 4.2 A GeV/c

Main field: Physics

Sub-field: High Energy Nuclear and Particle Physics

Supervisor: Prof.Dr.Ehsan Ullah Khan

Co-Supervisor: Prof.Dr.Mais Suleymanov

(D) Service Record:

1: Post-Ph. D. Teaching/Research Experience

Institution	Position Held / BPS	Status of Job (Regular / Contact /Officiating etc.)	Period	
			From	To
International Islamic University Islamabad	Assistant Professor/19	TTS	01-09-2018	Continue
Riphah International University Islamabad	Associate Professor/20	Regular Contract	01-09-2016	31-08-2018
Riphah International University Islamabad	Assistant Professor/19	Regular Contract	30-11-2012(AN)	24-08-2016
International Islamic University Islamabad	Assistant Professor/19	IPFP	02-12-2011	30-11-2012

2: Pre-Ph.D. Teaching/Research Experience

Institution	Position Held / BPS	Status of Job (Regular / Contact /Officiating etc.)	Period	
			From	To
Cadet College Jajja, Rawalpindi	Lecturer/17	Contact	May 2011	Nov 2011
Cadet College Humak, Islamabad	Lecturer/17	Contact	Jan 2010	June 2010
COMSATS Institute of Information Technology, Islamabad, Pakistan	PhD Research Scholar	Researcher	Oct 2006	Sept 2010
Joint Institute for Nuclear Research (JINR) Dubna, Russia	Visiting Researcher	Fellowship	Oct 2008	March 2009
Jinnah College of Informatics, Rawalpindi	Lecturer/17	Contact	Sept 2006	May 2007

(E) Research Supervision:

1: Ph. D.'s produced

01

S #	Student's Name	Dissertation title	Supervisor	Co-Supervisor	Year
1	Akbar Ali CMS#10866	Synthesis and Characterization of Magnetic Nanoparticles Fe_3O_4 , Co_3O_4 and Their Applications in Urea Bio Sensing	Prof.Dr.M.T ufail	Dr.Zafar Wazir	2015

2: Ph. D. students, currently under supervision

04

S #	Student's Name	Dissertation title	Supervisor	Co-Supervisor	Status
1	Syed Munir Aslam CMS#12151	Study of cumulative particle production in hadron-nuclear and nuclear-nuclear interactions at high energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	Research continued
2	Syed Attiq Giallani CMS#12237	Study of the characteristics of the hadron-nucleus and nucleus-nucleus collisions as a function of the maximum value of p_T for the secondary charged particles in an event	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	Research continued
3	Muhammad Nusrat CMS#14435	Hydrocarbon and crude oil exploration, in the Kark district of the Khyber Pakhtunkhwa (KPK) province through water, sludge and soil analysis, using Neutron Activation Analysis (NAA) and gamma spectrometry.	Dr.Zafar Wazir	Dr.Naila Saddique	Research continued

4	Zawwar Hussain CMS#14434	Radionuclide measurements and elemental analysis of water, sludge and soil samples collected at different depths during petroleum exploration using gamma spectrometry and Neutron Activation Analysis (NAA).	Dr.Zafar Wazir	Dr.Naila Saddique	Research continued
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3: M.Phil. Produced:

S #	Student's Name	Thesis title	Supervisor	Co-Supervisor	Year
1.	Muhammad Asim Rashid CMS # 17925	Study of Experimental and Theoretical Challenges in the Search for the Quark Gluon Plasma	Dr.Zafar Wazir		2018
2.	Aneela Bibi CMS#18747	The study of hadron-nucleus interactions at extreme energies	Dr.Zafar Wazir		2018
3.	Hina Habib CMS#18834	The study of nucleus-nucleus interactions at extreme energies	Dr.Zafar Wazir		2018
4.	Komal Iqbal CMS#19064	CMS RPC's Efficiency and Cluster Size Measurement at 13 TeV	Dr.Zafar Wazir	Dr.Taimoor Khurshid	2018
5.	Raja Jamroz Pervaiz CMS#18647	Comparison Analysis of Radon Concentration in Water Of Khewra Mines with other Parts Of District Jhelum	Dr.Zafar Wazir	Dr.Fayaz Khan	2018
6.	Arif Mehmood CMS # 18972	The study of spin chain under next nearest neighbor interaction	Dr.Zafar Wazir	Prof.Dr.Ishaq Ahmed	2018
7.	Ambreen Muzaffar CMS# 13854	Comparison Study of Penumbra, Flatness and Symmetry for high energy- photon beams, in Small & Large Fields, with 2D ion chamber array matrix	Dr.Zafar Wazir	Mr.Haseeb Ullah	2018
8.	Tanveer Hussain CMS#19414	Comparison analysis of Radon concentration in drinking water of Sohawa and Dina district Jhelum.	Dr.Zafar Wazir	Dr.Fayaz Khan	2018
9.	Muhammad Wasim Qadir CMS# 18831	Electrical and Optical properties of copper doped tin antimony sulfide thin film	Dr.Zafar Wazir	Dr.Waqar Adil	2018
10.	Narjis Khatoon CMS# 15500	Study of the momentum distributions to define centrality by using Wigner approach based on Random Matrix Theory	Dr.Zafar Wazir		2017
11.	Shafqat nabi 308- FBAS/MSPHY/F14	Analysis of experimental and simulation data to study phase transition of strongly interacting nuclear matter	Dr.Zafar Wazir	Dr.Waqar Adil	2017
12.	Muhammad Nasir Rana 74-CESET-13	Study of Relativistic Nucleus-Nucleus Collisions in the Ultra-Relativistic Quantum Molecular Dynamics Model	Dr.Zafar Wazir	Dr.Ehsan Ullah Khan	2017
13.	Mahwish Shabbir CMS 16744	Study of effect of jets on charged particles produced in nucleus-nucleus collisions at high energies	Dr.Zafar Wazir	Dr.Ali Zaman	2017
14.	Mehmood Elahi 77-CESET-13	Study of Central Nucleus-Nucleus Collision in the Framework of cascade Evaporation Model	Dr.Zafar Wazir	Dr.Ehsan Ullah Khan	2017

15.	Aqsa Farooq CMS 16743	Study of effect of jets on charged particles produced in proton-nucleus collisions at high energies	Dr.Zafar Wazir	Dr.Ali Zaman	2017
16.	Muhammad Safeer Khan CMS 16998	Study of effect of jets on charge particles produced in proton-proton collisions at high energies	Dr.Zafar Wazir	Dr.Ali Zaman	2017
17.	Nabeela Waheed CMS 16670	Interference due to Non-Standard Interaction of Tau Neutrinos	Dr.Zafar Wazir	Dr.Farida Tahir	2017
18.	Samreen Abbasi CMS 16619	Study of the transverse momentum distribution for secondary charged particles produced in the Au+Au and Pb+Pb interactions at RHIC and LHC energies.	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2017
19.	Ume Kalsoom CMS 16812	Study of the transverse momentum distribution for secondary charged particles produced in the P+P interactions at RHIC and LHC energies.	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2017
20.	Abida Parveen CMS 16820	Study of the nuclear modification factor for secondary charged particles produced in the Au+Au interactions at RHIC energies.	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2017
21.	Anisah Farooq Hashmi CMS 16566	Study of the transverse momentum distribution for secondary charged particles produced in the Pb+Pb interactions at LHC energies.	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2017
22.	Sidra Kanwal CMS 15580	Study of the nearest neighbor spacing momentum distributions of carbon-carbon interactions at 4.2 A GeV/c in lab system	Dr.Zafar Wazir		2017
23.	Shafiq Imran CMS#14334	Phase Transition Studies of Strongly Interacting Nuclear Matter	Dr.Zafar Wazir		2016
24.	Mahpara Ghazanfar CMS#14557	Study of new physics through $e^- + \nu_e \rightarrow e^- + \nu_e$	Dr.Zafar Wazir	Dr.Farida Tahir	2016
25.	Nadia Kauser CMS#13853	Status of non-standard interactions in $e^- + \nu_\mu \rightarrow e^- + \nu_\mu$	Dr.Zafar Wazir	Dr.Farida Tahir	2016
26.	Zahid Iqbal CMS#13851	Probing new physics through $e^- + \nu_\tau \rightarrow e^- + \nu_\tau$	Dr.Zafar Wazir	Dr.Farida Tahir	2016
27.	Amjad Mehmood CMS#12839	Synthesis and structural study of Sn-Bi-System thin film by Sputtering.	Dr.Zafar Wazir	Dr.Hasnain Tariq	2016
28.	Abid Mehmood CMS#12838	Synthesis and structural study of thin film of SnS-Bi ₂ S ₃ by thermal evaporation method.	Dr.Zafar Wazir	Dr.Hasnain Tariq	2016
29.	Muttia Malik CMS#13244	Centrality dependence of pseudorapidity spectra of charged particles produced in the Si+Em nuclei at 4 A GeV.	Dr.Zafar Wazir		2015
30.	Aasma Khan CMS#12952	Study of the multiparticle processes in hadron-nuclear interactions at high energies.	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2015
31.	Jaweria Aslam CMS#12840	Study of the multiparticle processes in nuclear-nuclear interactions at high	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2015

		energies.			
32.	Atif Ameer CMS# 11554	Study of Momentum distribution for hadron-nucleus collisions at high energies	Dr.Zafar Wazir		2015
33.	Mehwish Latif CMS#13372	Analysis of shower pseudorapidity spectrain interaction of Si ion with emulsion nuclei at 14 A GeV to fix the centrality.	Dr.Zafar Wazir		2015
34.	Imran Akbar CMS# 12159	Study of momentum distribution for nucleus-nucleus collisions at high energies	Dr.Zafar Wazir		2015
35.	Syed Ghulam Ullah Bukhari CMS#12836	Measurement of Radon concentration in well and surfacewater of District Mardan (Pakistan).	Dr.Zafar Wazir	Dr.Fayyaz Khan	2015
36.	Tahir Mehmood CMS#13268	Measurement of Radon concentration in drinking water of District Attock (Pakistan).	Dr.Zafar Wazir	Dr.Fayyaz Khan	2015
37.	UzmaRehman CMS#11530	Study of the average multiplicity of the charged particles produced in hadron-hadron interactions at high energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2015
38.	Tariq Habib CMS#11600	Study of the fast components of charged particles produced at high energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2015
39.	Aziz Ullah Khan CMS#11957	Design and application of Bio-inspired Computing Algorithm to Thomas Fermi Equation	Dr.Zafar Wazir	Dr.Asif Zahoor Raja	2015
40.	QaiserRafique CMS#11682	Modeling of Radiation Doses for a Hypothetical Contaminated site using the RESRAD code	Dr.Zafar Wazir	Mr.Mazzamil	2015
41.	FazalUllah CMS#11888	Development of Nanostructured Bismuth Ferrite Multi-ferroics by Soft Chemical Route	Dr.Zafar Wazir	Dr.Saif Ullah	2015
42.	Ghulam Sughra CMS#8844	Comparative study of centrality dependence in nucleus-nucleus collisions at high energies	Dr.Zafar Wazir	Prof.Dr.M.Tufail	2014
43.	Muhammad Sohail CMS#10589	Study of parton percolation cluster formation in nucleus-nucleus collisions	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2014
44.	Abdul Basit CMS#10567	Tuning of Shapiro steps in superconducting film with anti-dot lattice	Dr.Zafar Wazir	Dr.M.Kamran	2014
45.	NaheedMaqsood Reg#62-FBAS/MS PHY/F11	Indoor radon measurements in workplaces of district Khushab by using Etched Track Detectors	Dr.Zafar Wazir	Dr.Saeed Ur Rehman	2014
46.	Bakhtiar Ud Din CMS#10698	Fermi Degenerate Systems and Collective Oscillations	Dr.Zafar Wazir	Dr.Shabbir Ahmad Khan	2014
47.	Asif Zahir CMS#9376	To study the pseudorapidity spectra of charged particles produced in central $^{208}\text{Pb}+\text{Em}$ at 158 A GeV	Dr.Zafar Wazir		2014
48.	Muhammad Ayaz CMS#9765	Study of nucleons collective behavior in hadrons-nucleus collisions at high energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2014
49.	Muhammad Waqas CMS#9940	Study of nucleons collective behavior in nucleus-nucleus collisions at high energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2014
50.	Muhammad Ilyas Reg#64-FBAS/MS PHY/F11	Low Frequency Electromagnetic Waves in Dense Pair Plasmas	Dr.Zafar Wazir	Dr.Shabbir Ahmad Khan	2014
51.	Muhammad Tufail CMS#10566	Synthesis and characterization of Ba-hexaferrite with suitable dopant	Dr.Zafar Wazir	Dr.Anwar Ul Haq	2014
52.	ShahidMehmood Reg#120-FBAS/MS	Centrality dependence of Pseudorapidity Spectra of Charged Particles Produced in	Dr.Zafar Wazir	Dr.Waqar Adil	2014

	PHY/F12	the nucleus-nucleus collisions at high energies			
53.	IramNaeem CMS#10716	Study of Total Disintegration of Nuclei at High Energies	Dr.Zafar Wazir	Prof.Dr.Mais Suleymanov	2014
54.	Iqbal Hussain CMS#8946	Comparitive study of indoor radon concentration in different materials made houses in Batkhela	Dr.Zafar Wazir	Dr.Fayyaz Khan	2013
55.	Muhammad Nusrat CMS#8851	Study of radon levels in two stories houses in District Nowshera KPK	Dr.Zafar Wazir	Dr.Fayyaz Khan	2013
56.	Atwar Qadir CMS#8852	Indoor radon concentration in dwelling environment of Attock District	Dr.Zafar Wazir	Dr.Fayyaz Khan	2013
57.	Abdur Rauf Reg#86-FBAS/MS PHY/F11	Spacing Correlations of Heavy Ion Collisions at relativistic energies	Dr.Zafar Wazir	Dr.Imran Murtaza	2013
58.	KifayatUllah Reg#85-FBAS/MS PHY/F11	Study of the properties of strongly interacting matter under extreme conditions of high energy and baryon densities	Dr.Zafar Wazir	Dr.Waqar Adil	2013
59.	Rab Nawaz Khan Reg#89-FBAS/MS PHY/F11	Comparative Study of Central Hadrons-Nucleus and Nucleus-Nucleus Collisions and Random Matrix Theory	Dr.Zafar Wazir	Dr.Saeed Ur Rehman	2013
60.	Safi Ullah Reg#87-FBAS/MS PHY/F11	Phase Transition and Central Hadrons-Nucleus and Nucleus-Nucleus Collisions	Dr.Zafar Wazir	Dr.Shabbir Ahmad Khan	2013
61.	Zawwar Hussain Shah Reg#FBS-MSP- F0511	Study of ^{12}CC collisions to fix the centrality at 4.5 A GeV	Dr.Zafar Wazir	Prof.Dr.M.Tufail	2013
62.	Abdul RafihAmer Reg#FBS-MSP- F0111	Study of central light nuclei collisions at high energies with model independent approach	Dr.Zafar Wazir	Prof.Dr.M.Tufail	2013

4:M.Phil. Students, currently under supervision: 04

5:M.Sc Students, Produced: 08

(F)Research Projects:

Project Title	Principal / Co-Principal Investigator	Amount (Rs Mil)	Sponsoring Agency	Duration
01 Project No: PM-IPFP/HRD/HEC/2011/347 entitled "Study of the properties of nuclear matter under extreme conditions" in 2011-2012	Principal Investigator (PI)	0.5	Higher Education Commission (HEC)	01 year
16 Seed Money Grants from RARE(since 2013 to till now)	Principal Investigator (PI)	0.8	Riphah International University (RARE)	01 year for each grant

(G) Professional Achievements:

- ❖ Best Poster award in 24th International conference on Nuclear Tracks in Solids (ICNTS) 1-5 September 2008, Bologna, Italy.
- ❖ Best University Teacher Award 2015-2016 from Riphah International University Islamabad in 2017.
- ❖ Best University Teacher Award 2016-2017 from Higher Education Commission (HEC) Islamabad in 2018.
- ❖ Training in Mentoring Program of Riphah International University in 2015
- ❖ Invited Speaker at Gordon College Rawalpindi on 26 January 2017.
- ❖ Member of the Jury for PYPT 2017 held on 01-02 April 2017 at Pak Turk School and College, Park Road

(H) Publications (Journals/ Books):

1: Manuscripts, Published in Journals

HAVING IMPACT FACTOR									
S #	Year	Name of the Author / Authors	Title of Paper	Complete name of the journal & address	Impact factor	Vol #	Issue #	Page No.	
								From	To
1)	2018	Aslam SM,Suleymanov MK , Wazir Z and Gilani AR	Study of the Cumulative Number Distribution of Charged Particles Produced in d12C-Interactions at 4.2 A GeV/c https://doi.org/10.1007/s10773-018-3701-y	Int J Theor Phys	0.964			01	09
2)	2018	Aslam SM,Suleymanov MK , Wazir Z and Gilani AR	Study of the cumulative number distribution of charged particles produced in He C interactions at 4.2 A GeV/c	Indian Journal of Physics	1.165			01	06
3)	2018	Gilani AR,Suleymanov MK , Wazir Z and Aslam SM	Transverse Momentum Distributions of Charged Particles Produced in Deuteron-Carbon Interactions at 4.2A GeV/c https://doi.org/10.1007/s10773-018-3821-4	Int J Theor Phys	0.964			01	09
4)	2017	Wazir Z , Aslam SM, Suleymanov MK and Gilani AR	Study of the Cumulative number distribution of produced charged particles in hadron-nucleus interactions at Dubna energies	Journal of Physical Mathematics	0.167	08	03	100 023 8	100 024 3
5)	2017	Khalid Mehmood Ur Rehman, Xiansong Liu, Yujie Yang, Shuangjiu Feng, Jin Tang, Zulfiqar Ali, Z. Wazir , Muhammad Wasim Khan, Mudssir Shezad, Muhammad Shahid Iqbal, Cong Zhang, Chaocheng Liu	Structural, Morphological and Magnetic Properties of Sr _{0.3} La _{0.48} Ca _{0.25} n[Fe(2-0.4/n)O ₃]Co _{0.4} (n= 5.5, 5.6,5.7,5.8, 5.9, 6.0) Hexaferrites Prepared by Facile Ceramic Route Methodology DOI: https://doi.org/10.1016/j.jmmm.2017.10.051	Journal of Magnetism and Magnetic Materials	2.4			1	17
6)	2017	Khalid Mehmood Ur Rehman; Xiansong Liu; Shuangjiu Feng; Muhammad Wasim Khan; Z Wazir ; Yujie Yang;Jin Tang; Wang Wei;Cong Zhang; Chaocheng Liu;Xiangyu Meng; Haohao Li	Influence of Temperature on Sr _{0.35} La _{0.40} Ca _{0.25} Fe _{11.6} Co _{0.40} 19 Hexagonal Ferrites Against Structural, Morphological and Magnetic Properties Prepared by Conventional Ceramic Reaction Methodology	Journal of Superconductivity and Novel Magnetism	1.18			1	16

			DOI 10.1007/s10948-017-4272-5						
7)	2017	Khalid Mehmood Ur Rehman; Xiansong Liu; Shuangjiu Feng; Yujie Yang; Jin Tang; Wang Wei; Z Wazir ; Muhammad Wasim Khan; Cong Zhang; Chaocheng Liu; Xiangyu Meng; Haohao Li;	Synthesis of $\text{Sr}_{0.7}\text{Y}_x\text{La}_{3-x}\text{Fe}_{12-y}\text{Co}_y\text{O}_{19}$ ($x=0.00, 0.05, 0.10, 0.15$) & $y=0.30, 0.25, 0.20, 0.15$) Hexaferrites against Structures and Magnetic Properties Prepared by the Solid-State Reaction Method https://doi.org/10.1016/j.cjph.2017.06.014	Chinese Journal of Physics	0.514			1	17
8)	2017	A. MEHMOOD; Z Wazir ; M. F. NASIR; A. MEHMOOD	Post Annealing Effects On The Optical And Structural Properties Of Sulphurized Sn-Bi Thin Films	Chalcogenide Letters	0.732	14	7	267	273
9)	2017	F Khan, Z Wazir , N Ali and S A Khattak	Estimation of radon concentrations and associated radon doses by using active technique in drinking water sources of Abbottabad, KPK, Pakistan DOI: 10.1177/1420326X16684916	Indoor and Built Environment	0.93			01	08
10)	2017	A R Gilani, M K Suleymanov, Z Wazir and S M Aslam	Study of the pT-distributions of secondary charged particles produced in p12C interactions at 4.2 A GeV/c DOI: DOI 10.1007/s12648-017-0995-1	Indian Journal of Physics	1.165			01	06
11)	2016	S.A. Khan · Z. Iqbal · Z. Wazir · Aman-ur-Rehman	Quantum Ion-Acoustic Oscillations in Single-Walled Carbon Nanotubes	Zeitschrift für Naturforschung (Z NATURFORSCH A)	0.79	71	5	397	404
12)	2016	M. Ajaz K. H. Khan M. K. Suleymanov [†] Ali Zaman H. Younis Z. Wazir B. Ali	Average characteristics of $\pi-\pi$ -mesons in HeC and CC interactions at high energies	International journal of modern physics E	1.34	25	3	1650019-1	1650019-9
13)	2016	SHABBIR AN, BAKHTIAR-UD-DIN, MUHAMMAD ZAFAR, ZAFAR WAZIR	Ion waves driven by shear flow in a relativistic degenerate astrophysical plasma	Pramana	1.2	86	5	1143	1151
14)	2015	Kamran, S. R. Naqvi Kiani, A. Basit Wazir , S. K. He , S. P. Zhao, X. G. Qiu	Absence of Reconfiguration	Journal of Superconductivity and Novel	0.909	28	11	3311	3315

			for Extreme Periods of Rectangular Array of Holes	Magnetism					
15)	2015	A.Ali,M.Israr-Qadir, Z.Wazir ,M,Tufail,	“Cobalt oxide magnetic nanoparticles-chitosan nanocomposite based electrochemical urea biosensor”	Indian Journal of Physics	1.785	89	04	331	336
16)	2015	F.Khan, Z.Wazir ,M.Tufail and M.Nusrat	Variation of Indoor radon Concentrations in two storey houses in Nowshera District Pakistan	Radiation Protection Doisemtry ,	0.861	163	01	133	139
17)	2014	Z.Wazir ,M.K.Suleymanov,B.. Z.Belshav	“Centrality dependence of pseudorapidity spectra of charged particles produced in the nucleus-nucleus collisions at high energies”	Indian Journal of Physics	1.785	88	07	723	726
18)	2014	Akbar Ali, Z.Wazir ,M,Tufail,	“Silver-Chitosan nano-biocomposite as urea biosensor”	Optoelectronics and Advanced Materials-Rapid Communications	0.449	08	11-12	1238	1242
19)	2014	S.A.Khan,M.Ilyas, Z.Wazir	Linearly coupled oscillations in fully degenerate pair and warm pair ion astrophysical plasma	Astro Physics space science	2.401	352	02	025201	
20)	2013	N. A. Niaz , I. Ahmad, S. Nasir, Z.Wazir , R. Hussain, N. R.Khalid, S. Tajamal Hussain	“Synthesis and Characterization of Mg-Al Alloys for Hydrogen Storage Applications”	Digest Journal of Nanomaterials and Biostructures	1.092	08	01	423	431
21)	2013	S.A.Khan, Z.Wazir	“Coherent nonlinear structures in dense electron-positron plasma”	Chin. Phys. B	1.148	22	02	025201	
22)	2013	Z. Wazir , A. Rauf, Z. Hussain, M. Amer, S. Ullah, R. Nawaz, K. Ullah, G. Sughra, W. Syed and M. Tufail	, "Study of ¹² CC Collisions at 4.5 A GeV to Define Centrality,"	Journal of Modern Physics	0.53	04	08	1105	1109
23)	2012	Z.Wazir	Central nucleus-nucleus collisions and nearest-neighbor spacing distributions	Modern Physics Letter A	1.11	27	16	1250090	
24)	2012	M.K.Suleymanov,E.I.Shahaliev , Z.Wazir	Applying a New Method for Analyzing Experimental Data on Nuclear Reactions at High Energies	inBulletin of the Russian Academy of Sciences. Physics	0.30	76	10	1089	1092
25)	2011	B.Z. Belashev, M.k.Suleymanov, S.Vokal, J.Vrlakova, M.Ajaz, A.Zaman,	Analysis of shower particle pseudorapidity spectra in interaction of relativ	Chinese Physics C	0.338	35	12	1095	1099

		K.H.Khan, Z. Wazir	istic Au and Pb ions with the mulstionuclei						
26)	2011	Z. Wazir	Centrality in Relativistic Nuclear Collisions and Random Matrix Approach.	Chin. Phys. Lett.	0.811	28	09	092503	
27)	2011	M.K. Suleymanov, E.U. Khan, K. Ahmed, Mahnaz Q. Haseeb, Farida Tahir, Y.H. Huseynaliyev, M. Ajaz, K.H. Khan, Z. Wazir	Search for a Signal on QCD Critical Point in Central Nucleus-Nucleus Collisions.	Indian Journal of Physics	1.785	85	07	1047	1050
28)	2010	Z. Wazir	Centrality of the collision and Random Matrix Theory.	Chinese Physics C	0.338	34	10	1593	1597
29)	2010	Z. Wazir , R.G. Nazmitdinov, E.I. Shahaliev, M.K. Suleymanov	Central nucleus-nucleus collisions at relativistic energies with a new method based on Random Matrix Theory.	Chinese Physics C	0.338	34	08	1076	1081
30)	2009	M.K. Suleymanov, E.U. Khan, K. Ahmed, Mahnaz Q. Haseeb, Farida Tahir, Y.H. Huseynaliyev, M. Ajaz, K.H. Khan, Z. Wazir	Some Properties of the Central π -Meson Carbon Interactions at 4.0-GeV/c.	Int. J. Mod. Phys A	1.127	24	01	544	548

PUBLICATIONS WITH NO IMPACT FACTOR

S#	Year	Name of the Author / Authors	Title of Paper	Complete name of the journal & address with HEC allocated category	Vol #	Issue #	Page No.	
							From	To
1	2017	A. Khan, M.K. Suleymanov, Z. Wazir and J. Aslam	Study of the Multi Particle Processes in Proton-Carbon and Deuteron-Carbon Interactions at 4.2 A GeV/c	The Nucleus (HEC Y Cat)	54	01	23	25
2	2017	Q. Rafique, M. Hussain, Z. Wazir and F. Khan	Modeling Radiation Doses for a Hypothetical Contaminated Site Using RESRAD-OFFSITE Code Faisalabad, Pakistan	The Nucleus (HEC Y Cat)	54	01	33	37
3	2012	Z. Wazir	Use of Random Matrix Theory in central nucleus-nucleus collisions as new approach	Journal of Nuclear and Particle Physics	2	2	11	13
4	2012	Z. Wazir	Study of Centrality with new method in nucleus-nucleus collisions at 4.2 A GeV/c,	International Journal of theoretical and mathematical Physics	2	3	37	40
5	2012	Syed M. Usman Ali, M. Fakhar-e-Alam, Z. Wazir , M. Kashif, M. Atif, Magnus Willander and W. A. Syed	Cytotoxic Effects of Zinc Oxide Nanoflakes (ZNO NFS) in Human Muscle Carcinoma,	International Journal of Medicine and Medical Sciences	2	1	53	58
6	2012	Muhammad Asim –uddin, Muhammad Fakhar-e-Alam , S. Karim , Z. Wazir , Hajra Sadia and Waqar. A. A. Syed	Tumoricidal Effect of Photofrin and Nanomaterials in Human Glioblastoma Cell Line	International Journal of Basic & Applied Sciences IJBAS-IJENS	12	4	14	18
7	2012	Waqar A.A. Syed, Nazar A. Shah, Z. Wazir	He II Line 4686 A as Wavelength Standard for Fourier Transform Spectrometer	Science and Technology	2	5	122	129

8	2011.	M. Ajaz, M.K. Suleymanov, O.B. Abdinov, Ali Zaman, K.H. Khan, Z. Wazir , Sh. Khalilova	Nuclear transparency effect in the strongly interacting matter	Azerbaijan Journal of Physics(Fizika)	17	3	17	20
9	2010	Z. Wazir , M.K. Suleymanov, O.B. Abdinov, E.U. Khan, Mahnaz Q. Haseeb, M. Ajaz, K. H. Khan, Sh. Ganbarova	Comparison of experimental and theoretical results to define centrality of heavy ion collisions	Azerbaijan Journal of Physics(Fizika)	16	1	75	78
10	2010	Z. Wazir , M.K. Suleymanov, O.B. Abdinov, E.U. Khan, Mahnaz Q. Haseeb, M. Ajaz, K. H. Khan, Sh. Ganbarova	Some properties of the central heavy ion collisions	Azerbaijan Journal of Physics(Fizika)	16	3-4	85	88
11	2010	K. H. Khan, M.K. Suleymanov, O.B. Abdinov, Z. Wazir , E.U. Khan, Mahnaz Q. Haseeb, M. M. Ajaz, Sh. Ganbarova, , Azerbaijan Journal of Physics(Fizika), vol.XVI, 2,474-477, 2010 .	Light nuclei production in heavy ion collisions	Azerbaijan Journal of Physics(Fizika)	16	2	474	477

INTERNATIONAL CONFERENCE PROCEEDINGS

1. **Z.Wazir**, F.Khan, S.G.U.S.Bukhari, Iftikhar A Raja, Measurement of Radon Concentration in Well and Surface Water in District Mardan, Pakistan,proceeding of 7th International Conference on Environmentally Sustainable Development August 26-28 2017 at COMSATS Institute of Information Technology,Abbottabad.
2. S. U. Rahman, S. A. M. Naqvi, M. Rafique, F. Khan ,**Z. Wazir** and Iftikhar A Raja, Assessment of Radiological Hazards Due to Naturally Occurring Radionuclides for Soil Samples Collected from KalarSaidan, Pakistan,proceeding of 7th International Conference on Environmentally Sustainable Development August 26-28 2017 at COMSATS Institute of Information Technology,Abbottabad.
3. **Z.Wazir**,M.K.Suleymanov,S.M Aslam,S.A.Gilani.Study of the Cumulative Number Distribution of Charged Particles Produced in p12C-Interctions at 4.2 A GeV/c. 5th Annual International Conference on Physics 17-20 July 2017, Athens, Greece
4. **Z.Wazir**,F.Khan,S.U.Rehman,I.A.Raja,Radon in drinking water sources from District Chakwal Region,proceeding of 6th International Conference on Environmentally Sustainable Development April 25-27 2016 at COMSATS Institute of Information Technology,Abbottabad.
5. S.U.Rehman,F.Khan,**Z.Wazir**,I.A.Raja,Radon Monitoring in the Builtup ares using Solid State Nuclear Tracks Detectors,proceeding of 6th International Conference on Environmentally Sustainable Development April 25-27 2016 at COMSATS Institute of Information Technology,Abbottabad
6. **Z.Wazir**,F.Khan,S.U.Rehman,M.Tufail,Indoor radon measurements in workplaces of District Khushab by using etched track detectors,proceeding of 5th International Conference on Environmentally Sustainable Development 2August 25-27 2013 at COMSATS Institute of Information Technology,Abbottabad.pp 646-649
7. F.Khan,I.A.Raja,N.Ali,E.U.Khan,M.Tufail,**Z.Wazir**,Indoor radon measurements in workplaces of District Khushab by using etched track detectors,proceeding of 5th International Conference on Environmentally Sustainable Development 2August 25-27 2013 at COMSATS Institute of Information Technology,Abbottabad.pp 650-654
8. **Z.Wazir**, Study of central nucleus-nucleus collisions with a new approach , Proceedings of 32nd International Cosmic Ray Conference(ICRC 2011), Beijing, China, 11-18 August,2011,Vol.5,75-78,**2012**.
9. **Z.Wazir**, R. G. Nazmitdinov, E. I. Shahaliev, and M. K. Suleymanov, Can We Define the Centrality in High-Energy Nuclear Collisions within the Random Matrix Theory?, Proceedings of the 29th Physics in Collision (PIC 2009), Kobe, Japan, 30th Aug-02ndSept ,2009:227-228,**2010**(ISBN=978-4-904164-09-9).
10. M.K. Suleymanov, M.Ajaz, Ali Zaman, Kamal.H. Khan, **Z. Wazir**, High density and/or high temperature nuclear matter may be a source of high energy cosmic particles, Proceedings of Science (PoS (EPS-HEP 2009)406, **2010**)
11. M. Ajaz, M. K. Suleymanov, E. U. Khan, M. Q. Haseeb, K. H. Khan, **Z.Wazir**, Study of the behavior of the nuclear modification factor in freeze-out state, Proceedings of 28th Physics in Collision (PIC 2008), Perugia, Italy, 25-28 Jun,2008,366-369,**2009**(econf/C080625).

NATIONAL CONFERENCE PROCEEDINGS

1. **Z.Wazir**, Applying Random Matrix Theory in central nucleus-nucleus collisions as new approach, Accepted to be publish in proceedings of NUST Conference on Applications and Methods of Physics, 21-22 Nov, **2011**, NUST, Islamabad.
2. **Z.Wazir**, Centrality and the Nucleus-Nucleus Collisions, Accepted to be publish in proceedings of 13th National Symposium "Frontiers in Physics", 19-21 Dec 2012, University of Peshawar, Peshawar.

2: Books Authored

S #	Title of the Book	Year / Publisher	Country of Publication	ISBN #
1	"Study of some properties of central carbon-carbon collisions"	LAP LAMBERT Academic Publishing (2012-03-01)	Germany	ISBN-13: 978-3-8484-2001-8

(I) Patents

Mr. Akbar Ali, Dr. Muhammad Tufail, **Dr. Zafar Wazir**, "Electrochemical urease immobilized cobalt oxide magnetic nanoparticles based biosensor for the detection of urea", Patent No: 141680, Intellectual Property Organization, Patent Office, Government of Pakistan (**I.F= 1.0**).

(J) In charge/Member of different Bodies:

- ❖ Incharge Graduate Program from 2013-2017.
- ❖ Member of BoS,Riphah International University Islamabad Since 2013
- ❖ Member of BoF,Riphah International University Islamabad Since 2013
- ❖ Member of BASR,Riphah International University Islamabad Since 2014
- ❖ Member of Academic Council,Riphah International University Islamabad Since 2014
- ❖ HEC Focal Person for Plagiarism,Riphah International University Islamabad Since 2014

- ❖ Member Of Bos,Punch University Rawalakot Since 2014
- ❖ Member of Mentoring Committee for I-14 Campus, Riphah International University Islamabad
- ❖ Member Unfair Means Examination Committee for I-14 Campus, Riphah International University Islamabad

(K) Teaching Experience of following Courses at BS/M.Sc/MS/PhD level:

i).Particle Physics ii).High Energy Physics iii).Nuclear Physics iv).Heavy Ion Physics v).Radiation Physics vi) Advance Mathematical Methods of Physics vii).Advance Quantum Mechanics viii).Atomic and Molecular Physics ix) Neutrino Physics x) Environmental Physics xi) Standard Model xii) Particle Physics Phenomenology xiii) Methods of Mathematical Physics (I&II) xiv) Electromagnetic Theory (I&II) xv) Advanced Electrodynamics xvi) Classical Mechanics xvii) Quantum Mechanics (I&II).

(L) Fields of Interest

i).High Energy Physics ii).Heavy Ion Physics iii).Radiation Physics iv).Computational Physics v) Nuclear and Particle Physics vi) Experimental Physics

(M) Participation and Presentations in National/International Schools, Workshops and Conferences

Sr#	Conference/School Name	Date/Year	Place	Purpose of visit
1.	Strategic vision workshop for mentors	20 th October 2017	Riphah International University,I-14,Islamabad	As a Mentor
2.	7th International Conference Environmentally Sustainable Development (ESDev - 2017)	26-28 August 2017	COMSATS Institute of Information Technology Abbottabad	Oral Presentation
3.	5 th Annual International Conference on Physics	17-20 July,2017	Athens Institute for Research and Education,Athens, Greece	Oral Presentation
4.	Two Days Seminar on Pakistan's Collaborations with CERN and SESAME	14-15 November,2016	Pakistan Institute of Nuclear Science and Technology Islamabad, Pakistan	Oral Presentation
5.	6th International Conference Environmentally Sustainable Development (ESDev - 2016)	25-27 April 2016	COMSATS Institute of Information Technology Abbottabad	Oral Presentation
6.	5th International Conference Environmentally Sustainable Development (ESDev - 2013)	25-27 Aug 2013	COMSATS Institute of Information Technology Abbottabad	Oral Presentation
7.	13 th National Symposium "Frontiers in Physics"	19-21 Dec 2012	University of Peshawar, Peshawar, Pakistan	Oral Presentation
8.	International Workshop on Materials Modeling and Simulation	May 21-24,2012	University of Malakand, Chakdra, Pakistan	Oral Presentation
9.	NUST Conference on Applications and Methods of Physics	21-22 Nov,2011	NUST,Islamabad, Pakistan	Oral Presentation
10.	32 nd International Cosmic Ray Conference(ICRC 2011),	2011	Beijing, China	Poster Presentation
11.	XXIX Physics In Collision(PIC)	30 th Aug-2 nd Sept 09	Kobe, Japan.	Poster Presentation

12.	Joint Institute for Nuclear Research(JINR)	Oct 08-Mar 09	Dubna, Russia	To perform experimental work
13.	International Summer School and Conference on High Energy Physics: Standard Model and Beyond (ISSCSMB '08)	10 -18 Sept 08	Mugala, Akyaka, Turkey.	Oral Presentation
14.	24 th International conference on Nuclear Tracks in Solids (ICNTS)	1-5 Sept 08	Bologna, Italy	Oral and Poster Presentation
15.	5th International Particle Physics workshop	2007	QAU, Islamabad, Pakistan	Poster Presentation
16.	International Seminar on Physics in developing countries: Past Present& Future	2006	Hotel Holiday Inn, Islamabad.	Poster Presentation
17.	International School on Surface, Thin Film, Nano Structures	2006	CIIT, Lahore, Pakistan	Poster Presentation
18.	International Conference of Environmentally Sustainable Development (ESDev 2005)	2005	CIIT, Abbotabad, Pakistan	Poster Presentation

(N) Thesis Evaluation/Viva Examiner

S #	University	Level	Number of students
1	International Islamic University, Islamabad	M.Phil/MS	08
2	Federal Urdu University, Islamabad	M.Phil/MS	01
3	Gomal University D.I.Khan	M.Phil/MS	03
4	AWKU Mardan	M.Phil/MS	02
5	COMSATS University Islamabad	BS	01

(O) References

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- b. Dr. Farida Tahir
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