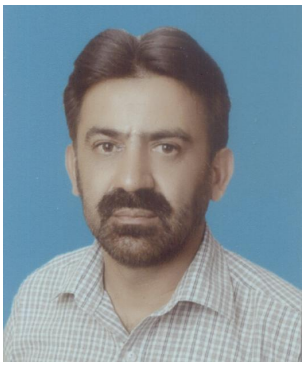
CURRICULUM VITAE



NAME: Muhammad Naeem Anjum
Date of Birth: 21.10.1969
Nationality: Pakistani
Marital Status: Married
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Current Position:

- Director, Institute of Physics, Bahauddin Zakariya University Multan.
- HEC approved supervisor

QUALIFICATIONS:

Post Doc in Medical Physics March 2010- June 2011	McGill University Canada	Topic: Quality Assurance and Risk Management in Radiation Oncology
PhD in Physics (15 Feb, 2010)	The Islamia University of Bahawalpur, Pakistan.	Topic: Quality Assurance and Treatment Verification for Radiotherapy of Tumor

Teaching and Research Experience:

1. Professor, Institute of Physics, Bahauddin Zakariya University Multan since April 6, 2023.
2. Associate Professor, Institute of Physics, The Islamia University of Bahawalpur, Pakistan from 6th October 2020 to April 5, 2023.
3. Assistant Professor, Institute of Physics, The Islamia University of Bahawalpur, Pakistan from 7th February 2012 to 5th October 2020.
4. Assistant Professor from June 2011 to February 2012, Department of Physics, Bahauddin Zakariya University Multan, Pakistan.
5. Post Doctoral Fellow in McGill Medical Physics Unit, McGill University Health Centre, Montreal General Hospital, Montreal Canada from March 2010 to June 2011.
6. Visiting Lecturer in the Department of Physics, The Islamia University of Bahawalpur, Pakistan from February 2009 to February 2010.
7. Research Fellow in McGill University Health Centre, Montreal General Hospital, from February 2008 to August 2008.
8. Lecturer in Sadiq Public School Bahawalpur (One of the largest Schools in Continent Asia) from 1998 to 2005.
9. Lecturer in Lodhran Public School and College Lodhran from 1993 to 1997.

Administrative Experience

- Working as Director Institute of Physics, BZU Multan since 21th October 2025.
- Worked as incharge student's affairs from March 2014 to September 2018 in institute of Physics IUB.
- Worked as assistant warden in Mahmood House, Sadiq Public School Bahawalpur from 2003-2005.

Professional Responsibilities

- Member Academic Council, Thal University Bhakkar since December, 2025.
- Member Board of studies, Department of Physics, University of Layya Punjab Multan since December, 2025.
- Member Board of studies, Department of Physics, University of South Punjab Multan since April, 2025.
- Member of Departmental Board of studies, Institute of Physics, Bahauddin Zakariya University Multan since April 6, 2023.
- Member of Board of Faculty, Bahauddin Zakariya University Multan since April 6, 2023.
- Member Academic Council, Bahauddin Zakariya University Multan since April 6, 2023.
- Member Senate, Bahauddin Zakariya University Multan since April 6, 2023.
- Member of Departmental Board of studies, Department of Physics, Islamia University of Bahawalpur since 12.04.2018 to 05.10.2020
- Member of Departmental Board of studies, Department of Physics, IUB since 12.04.2018 to 05.10.2020
- Departmental Focal Person of Laptop Scheme from 2014 to 2018.
- Departmental Focal Person for fee and Scholarships from 2014 to 2018.

Clinical Experience in McGill University Health Centre Canada

- Familiar with Eclipse & Corvus TPS,
- Familiar with Gafchromic films,
- Experience of weekly and Annual QA of Linacs (Medical Linear Accelerators) under TG-51 protocol**,**
- Patient specific QA on Linac and Tomotherapy Unit.

Society Membership:

Member of Canadian Organization of Medical Physicists (COMP) Canada.

Scholarships:

1. Scholarship for Post Doctorate from McGill University Canada from March 15, 2010 to June 15, 2011.
2. Scholarship under International Research Support Initiative Program (IRSIP) from Higher Education Commission Government of Pakistan.
3. Merit Scholarship for PhD Studies in Science & Technology (200 Scholarships) from HEC Government of Pakistan.

English Proficiency Certificates

1. IELTS certificate (International English Language Testing System) **Overall Band Score:6.0**
2. TOEIC certificate (Test of English for International Communication) **Score:730/990**

Knowledge of Computer Languages:

HTML, Perl, MySQL, C++,

Fellowship:

1. Department of Medical Physics, McGill University Health Centre, Montreal

General Hospital, Montreal, Quebec, Canada.
2. Department of Radiation Oncology Aga Khan University Hospital, Karachi, Pakistan.
3. Department of Radiation Therapy, Bahawalpur Institute of Nuclear Medicine & Oncology (BINO), Bahawalpur, Pakistan.

Research Interests:

CT and MRI Contrast Agents, Quality Assurance in Radiation Therapy, Effects of Ionizing Radiation on Optical Properties of Materials, and NanoBioPhysics

Trainings Attended:

1. PNRA-National Training Course on "Orphan Source Search" 27-31 March 2017 MINAR, Nishter, Hospital, Multan, Pakistan
2. PNRA-National Training Course on "Security of Radioactive Sources" from 09-13 December 2013 at Multan, Pakistan
3. PNRA-National Training Course on "Radiation Protection and Security of Sealed Radioactive Source (SRS)" 24-25 November 2008 MINAR, Nishter, Hospital, Multan, Pakistan.

Publications:

30 research papers in peer-reviewed journals:
Impact Factor: 73.48
List of publications attached.
2 Conference papers (Canada)
10 Conference papers (Pakistan)

Research Degrees Completed/In-Progress Under My Supervision:

Ph.D.:

Five doctoral candidates have successfully completed their Ph.D. degrees under my guidance.
Three doctoral candidate are continuing their research.

M.Phil. :

Eighty two students have successfully completed their M.Phil. degrees under my supervision.

S#	Session	Name	**Topic of Supervised PhD Students**
1	2014-2018	Zaheer Ahmad Gilani	Impacts of Rare Earth Cations on The Properties of Lithium Based Spinel Ferrites
2	2017-2020	Qura Tul Ain	Synthesis, Characterization and Applications of Graphene based Nano-composite
3	2013-2021	Atiq Ur Rehman	Preparation and Assessment of the Impact of Nanoparticles in Biomedical Applications

4	2013-2021	Muhammad Hassan	Synthesis, Characterization and Application of Metal Based Nanoparticles As Contrast Agent
5	2021-2026	Tooba Rafique	Effect of Gamma Irradiation on Functionalized Spinel Ferrite Nanoparticles Used as Contrast Agents
			Topic of Supervised MPhil Students
1	2012-14 Fall	Muhammad Numan ul Hai	Synthesis and characterization of water soluble gold nanoparticles
2	2012-14 Fall	Muhammad Inayat	Synthesis and characterization of water soluble iron oxide nanoparticles
3	2012-14 Fall	Muhammad Mohsin Waheed	Radiotherapy enhancement using silver nanoparticles in gel dosimeter
4	2013-15 Fall	Muhammad Adnan Ahsan	IMRT quality assurance using 2D 729Array
5	2014-16 Fall	Khizir Farooq	Synthesis and Toxicological Effect of Nickel Oxide Nanoparticles
6	2014-16 Fall	Muhammad Hamid Nazeer	Effects of Nanoparticles on Reproductive Health
7	2014-16 Fall	Murtaza Ahmad	Synthesis, Characterization and application of Zinc Oxide Nanoparticles
8		Maqbool Aslam	Synthesis, Characterization And Application Of Cerium Oxide Nanoparticles
9	2015-17 Fall	Kanza Ghazanfar	Anti-Bacterial Activity Of Cadmium Sulphide Quantum Dots
10	2015-17 Fall	Sumaira khan	Zinc Sulphide Quantum Dots:From Synthesis To Antibacterial Effect
11	2015-17 Fall	Fawad Ahmad	Toxicity of Contrast Agent (MnFe2O4) for Magnetic Resonance Imaging
12	2015-17 Fall	Sanamla Rani	Synthesis, Characterization and Toxicity of Carbon Dots
13	2015-17 Fall	Aisha Siddiq	Antibacterial Activity of Manganese Oxide Nanoparticles.
14	2016-18 Spring	Muhammad Riaz	Antibacterial application of graphene oxide nanoparticles against E. Coli
15	2016-18 Spring	Muhammad Zahid	Synthesis, Characterization and Antibacterial Activity of Silevr Dopped Zinc Oxide Nanoparticles
16	2016-18 Spring	Muhammad Umer Daraz	Antibacterial Properties of Zinc Doped Nickel Oxide Nanoparticles

17	2016-18 Spring	Imtiaz Hussain	Antibacterial Properties of Copper doped Zinc Oxide Nanoparticles
18	2016-18 Spring	Muhamma d Adnan	Antimicrobial Effect of Silver Nanoparticles
19	2016-18 Spring	Abdul Waras	Antimicrobial Activity of Iron Oxide Nanoparticles
20	2016-18 Spring	Ambreen Aleem	Antimicrobial Effect of Bismith Oxide nanoparticles
21	2016-18 Fall	Muhamma d Imran Anees	Antibacterial application of silica doped graphene oxide nanoparticles against E. Coli
22	2016-18 Fall	Muhamma d Farooq	Synthesis, Characterization and antibacterial application of copper doped cerium oxide nanaoparticles
23	2016-18 Fall	Qurat-ul-Ain	Synthesis, Characterization and antimicrobial application of Cadmimum doped cobalt nanoparticles
24	2017-19 Spring	Muhamma d Ilyas	Synthesis, characterization and optical property investigation of cobalt doped Silica Nanoparticles
25	2017-19 Spring	Auon Muhamma d	Synthesis, Characterization and Optical Properties of Zinc doped Cadmium Oxide Nanoparticles
26	2017-19 Spring	Iram Masood	Synthesis, Characterization and Optical Properties of Cadmium doped Nickel Oxide Nanoparticles
27	2017-19 Spring	Muhamma d Ameen	Synthesis, Characterization and Optical Properties of Cobalt doped Zinc Oxide Nanoparticles
28	2017-19 Fall	Aughsila Basharat	Structural and Optical properties of cerium doped zinc oxide nanoparticles
29	2017-19 Fall	Faqeer Muhamma d	**Effect of Different Nanoparticles on Seed Germination**
30	2018-20 Spring	Muhamma d Adnan	Effect of gama irradiation on optical and structural properties of Yb doped ZnO nanoparticles
31	2018-20 Spring	Muhamma d Abbas	Effect of Gamma Irradiation on Structural and Optical Properties of Zirconium Doped Copper Oxide Nanoparticles
32	2018-20 Fall	Gulzaib	Effect of Gamma Irradiation on Optical and structural properties of doped and undoped CdO Nanomaterials
33	2018-20 Fall	Nasira Kanwal	Effect of Gamma Irradiation on Optical and Structural Properties of Lantanum doped and undoped ZnO Nanoparticals
34	2018-20 Fall	Faisal Nawaz	Effect of Gamma Irradiation on Optical and Structural Properties of Pure and Neodymium Doped Copper Oxide Nanoparticles
35	2018-20 Fall	Ashir Saeed	CONDUCTING POLYMER AND GRAPHENE BASED SUPERCAPACITOR ELECTRODES
36	2019-21	Misbah	Effect of gamma irradiation on Optical and Structural properties

	Spring	Iqbal	of Pure and Copper Doped ZnS Nanoparticles
37	2019-21 Spring	Humera Ajmal	Effect of gamma irradiation on Optical and Structural properties of Pure and Nickel Doped ZnS Nanoparticles
38	2019-21 Spring	Hafiza Hina Shahzadi	Effect of Gamma Irradiation on Optical and Structural Properties of Pure and Manganese Doped ZnS Nanoparticles
39	2020_2022 Fall	Zara chaudry	Effect of gamma Irradiation on Structural and Optical Properties of Cobalt doped manganese Ferrite nanoparticles
40	2020_2022 Fall	Sadia parveen	Effect of gamma Irradiation on Structural and Optical Properties of Copper doped Nickel Oxide nanoparticles
41	2020_2022 Fall	Bushra Ramzan	Impact of Ce-doped Bismuth Oxide NPs on Radiosensitization Enhancement in Radiotherapy
42	2020_2022 Fall	Ayesha Perveen	Synthesis and Characterization of Dextrin Coated Bismuth Doped Nickel Ferrite nanoparticles used as X-Ray Contrast Agent
43	2020_2022 Fall	Uzma Younas	Radiosensitisation enhancement effect of the silver-Ceria hybrid nanoparticles in the radiation therapy
44	2020_2022 Fall	Bushra Shaheen	Influence of gamma Irradiation on Morphological, Structural and Optical Properties of carbon Coated Nickel Cobalt Oxide/RGO NanoComposites
45	2020_2022 Fall	Saadia Hafeez	Effect of gamma Irradiation on Structural and Optical Properties of Cadmium doped Nickel Oxide nanoparticles
46	2020_2022 Fall	Nageen Kousar	Synthesis and Characterization of Dextrin Coated Bismuth Doped mangnese Ferrite nanoparticles used as CT Contrast Agent
47	2021-2023 Spring	Asad Yasin	Enhancement of Radiation Effects by Cerium based Nano Composites
48	2021-2023 Spring	Muhamma d Adnan	Enhancement of Radiation Effects by Graphene based Nano Composites
49	2021-2023 Spring	Mukhtar Ahmad	Effect of Titanium Dioxide Nanoparticles on Functionalities of Buffalo Spermatozoa
50	2021-2023 Spring	Muhamma d Asghar	Effect of Chitosan Coated Zinc Sulphide Nanoparticles on Functionalities of Buffalo Spermatozoa
51	2021-2023 Spring	Muhamma d Junaid Azeem	Effect of Chitosan Coated Nickel Oxide Nanoparticles on Functionalities of Buffalo Spermatozoa
52	2021-23 Fall	Sidra Tehreem	Radiosensitization effects by Zn doped bismuth oxide nanocomposites
53	2021-23 Fall	Zainab Mehfooz	Radiosensitization effects by Bismuth doped ZnO nanocomposites
54	2021-23 Fall	Sana Khalid	Effect of ionizing radiation on optical properties of Ni doped MgO

55	2021-23 Fall	Usman Bashir	Effect of ionizing radiation on optical properties of Co doped MgO
56	2021-23 Fall	Shahzaib Mirza	Effect of ionizing radiation on optical properties of Fe doped MgO
57	2022-2024 Fall	Itfa Nizam	Dextrin-Coated Cobalt-Doped Zinc Ferrite Nanoparticles for MRI Contrast Enhancement
58	2022-2024 Fall	Rida Fatima	Advanced MRI Contrast Agents with Chitosan-Coated Nickel-Doped Zinc Ferrites
59	2022-2024 Fall	Maria ashraf	Enhanced MRI Contrast with PEG-Coated Manganese Doped Zinc Ferrites
60	2023-2025 FALL	Tanzeela Riaz	Peripheral Doses for 20 MeV Electron Beams
61	2023-2025 FALL	Sana Ilyas	Effect of Bolus on Dose Distributions in Radiotherapy
62	2023-2025 FALL	Nadia Riaz Gourmani	Peripheral Doses for 16 MeV Electron Beams
63	2023-2025 FALL	Muhammad jawad Malik	Synthesis, Characterization and Antibacterial activity of Zinc Ferrite Nanoparticles
64	2023-2025 FALL	Noman Ramzan	Dose Volume Histogram Patterns in Patients with Head and Neck Cancer
65	2023-2025 FALL	Maryam Nazeer	Role of Potassium and Iron in Hyperkalemia and Hemochromatosis Using White Light Microscopy Technique
66	2023-2025 FALL	Farzana Wazir	Effect of Gamma Irradiation on Photocatalytic Properties of Pure and Copper Doped Zinc Sulfide Nanoparticles
67	2023-2025 FALL	Muhammad Ikram	Effect of Gamma Irradiation on Optical and Structural Properties of Pure and Copper Doped ZnO
68	2023-2025 FALL	Muhammad Waris	Effect of Gamma Irradiation on Optical and Structural Properties of Pure and Silver Doped ZnO
69	2024-2026 Fall	Mah Noor	Effect of Gamma irradiation on Antidiabetic Potential of Graphene Quantum Dots
70	2024-2026 Fall	Sania Bashir	Silver Nanoparticle (AgNPs) infused Bolus for Radiotherapy
71	2024-2026 Fall	Hina Liaqat	DVH-based Prediction of Organ-Specific Secondary Malignancies in Laryngeal Cancer
72	2024-2026 Fall	Sumarna Sultan	Copper nanoparticle (CuNPs) infused bolus for radiotherapy
73	2024-2026 Fall	Syeda Mahnoor Fatima Zaidi	Radiobiological Assessment of Secondary Cancer Risk in Brain Radiotherapy
74	2024-2026	Tabish	Effect of Gamma irradiation on Antidiabetic Property of

	Fall	Saeed	ZnO/CeO_2 Nanocomposites
75	2024-2026 Fall	Tahseen Fatima	Radiation-Induced Secondary Cancer Risk in Bladder and Rectum from Cervical Cancer Radiotherapy
76	2024-2026 Fall	Ali Irtash	Effect of Gamma Irradiation on Electrochemical Properties of $CNTs/V_2O_5$ Nanocomposites
77	2024-2026 Fall	Gulsaz Akhtar	Effect of Gamma irradiation on Antidiabetic Property of ZnO/Fe_3O_4 Nanocomposites
78	2024-2026 Fall	Tanzeela Irum	Texture-Based Classifications of Benign and Malignant Breast Lesions on Digital Mammography
79	2024-2026 Fall	Saira Latif	Effect of Gamma irradiation on Antidiabetic Property of CeO_2/Ag Nanocomposites
80	2024-2026 Fall	Arooj Fatima	Comparative texture Feature Analysis of Dense Versus Non-Dense Breast Tissue in Mammography
81	2024-2026 Fall	Iqra Gafoor	Effect of Gamma Irradiation on Electrochemical Properties of CrO_2/Fe_2O_3 Nanocomposites
82	2024-2026 Fall	Palwasha Javaid	Effect of Gamma Irradiation on Electrochemical Properties of MoS_2/V_2O_5 Nanocomposites

Comprehensive Evaluation of M.S. Theses from Selected Pakistani Universities:

Comprehensive evaluation involved a rigorous examination of multiple M.S. theses submitted by students from prominent Pakistani universities, including:

- University of the Punjab, Lahore
- University of Sahiwal
- The Islamia University of Bahawalpur.
- GC University Faisalabad
- The Women University Multan
- University of Engineering and Technology Taxila
- Balochistan University of Information Technology, Engineering, and Management Sciences

Courses taught at Graduate and under Graduate level:

1. Advanced Medical Physics

2. Radiation Detection and Dosimetry

3. Nuclear Physics (I & II)

4. Classical Mechanics

5. Modern Physics

6. Waves and Oscillations

7. Mechanics

8. Electricity and Magnetism

Peer-Reviewed Journal Articles:

1. Rafiq, Tooba, Shaheen, B., Hassan, M., Ur-Rehman, A. and Anjum, M.N., "Chitosan coated Yb-doped MnCo ferrite: Tailoring properties via gamma irradiation for contrast agents and sensors." Radiation Physics and Chemistry 228 (2025): 112412.

2. Shaheen, Bushra, Nusrat Shaheen, and **Muhammad Naeem Anjum.** "Gamma-ray-elicited alterations in the structural, optical, and morphological attributes of spinel nickel cobaltite NiCo2O4." *Radiation Physics and Chemistry* 222 (2024): 111771.

3. Saeed, Ashir, Sadia Khalid, and **Muhammad Naeem Anjum**. "Challenges and Opportunities: Conducting Polymer-Graphene based Nanocomposites of Metal Oxides and Metal Sulfides for Supercapacitors." *ChemistrySelect* 9, no. 6 (2024): e202303527.

4. Shaheen, Bushra, Nusrat Shaheen, and **Muhammad Naeem Anjum.** "Synergistic effect of Gamma-Irradiation on morphological, structural, and optical properties of Carbon-coated Nickel Cobalt Oxide/rGO nanocomposites." *Radiation Effects and Defects in Solids* (2023): 1-16.

5. Rehman AU, Wu Y, Tran HD, Vazquez-Prada K, Liu Y, Adelnia H, Kurniawan ND, **Anjum MN**, Moonshi SS, Ta HT. Silver/iron oxide nano-popcorns for imaging and therapy. ACS Applied Nano Materials. 2021 Sep 2;4(10):10136-47.

6. Mariam, Rukhsana, Gul Naz, Muhammad Ramzan, **Muhammad Naeem Anjum**, Shazia Anjum, and Muhammad Abdullah. "Fagonia stabilized gold nanoparticles as antimicrobial agents." *Materials Research Express* 8, no. 8 (2021): 085011.

7. Naz, Gul, **Muhammad Naeem Anjum,** Muhammad Irfan, Masooma Irfan, Muhammad Arshad, Sadia Z. Bajwa, and Waheed S. Khan. "Quats stabilized gold nanospheres for efficient ligand exchange procedure." *Results in Materials* 5 (2020): 100065.

8. Hassan, M., A. U. Rehman, M. N. Ashiq, R. ALIb, M. H. Nazeer, K. Farooq, and **M. N. Anjum.** "Synthesis and study of structural and magnetic properties of dextrin coated manganese ferrite nanoparticles." *Digest Journal of Nanomaterials and Biostructures* 14, no. 4 (2019): 1041-1047.

9. Arshad, Muhammad Javid, A. M. I. R. Saddique, Mehmood Zahid, Amin Niama, Husain Fayyaz, Saeed Ahmad BUZDAR, **Muhammad Anjum Naeem,** and Muhammad Imran. "Synthesis, Characterization and Blood Based Toxic Effects of Superparamagnetic Nanoparticles." *Materials Science* 25, no. 4 (2019): 359-364.

10. Hassan, Muhammad, Ateeque Ur-Rehman, Muhammad Hamid Nazeer, Khizir Farooq, Kanza Ghanzanfar, and **Muhammad Naeem Anjum.** "Synthesis, Characterization, and In Vitro Study of Dextrin-Coated Bismuth-Doped Manganese Ferrite Nanoparticles (Bi o. 3 Mn o. 55 Fe 2 O 4) as an MRI Contrast Agent." *Journal of Superconductivity and Novel Magnetism* 33 (2020): 859-865.

11. Ain, Qura Tul, Samina Hyder Haq, Abeer Al-Modlej, Abeer Alshammari, Shahzad Ahmed, and **Muhammad Naeem Anjum.** "Dose-dependent cytotoxicity of polyethylene glycol loaded nano-graphene oxide in cultured cerebral cortical cells." *Materials Research Express* 6, no. 10 (2019): 105405.

12. Ain, Q. T., S. H. Haq, A. Alshammari, M. A. Al-Mutlaq, and **M. N. Anjum.** "The systemic effect of PEG-nGO-induced oxidative stress in vivo in a rodent model. Beilstein J Nanotechnol 10: 901–911." (2019).

13. Ain, Qura Tul, N. Bano, Abeer Al-Modlej, Abeer Alshammari, I. Hussain, and **Muhammad Naeem Anjum.** "Study of a saturation point to establish the doping density limit of silicon with graphene oxide." *Materials Science in Semiconductor Processing* 96 (2019): 116-121.

14. Zafar, Tayyaba, Bushra Bari, Khalid Alamgir, Sadia Khalid, Muhammad Arshad, and **Muhammad Naeem Anjum.** "Magnesium doped titania (TiO2) thin films: deposition, structural, morphological and optical properties." *Optoelectronics and Advanced Materials-Rapid Communications* 12, no. May-June 2018 (2018): 337-341.

15. Arshad Javid, M., Zafar Ullah Khan, Zahid Mehmood, Azeem Nabi, Fayyaz Hussain, M. Imran, Muhammad Nadeem, and **Naeem Anjum.** "Structural, electronic and optical properties of LiNbO3 using GGA-PBE and TB-mBJ functionals: A DFT study." *International Journal of Modern Physics B* 32, no. 14 (2018): 1850168.

16. Ain, Qura Tul, Abeer Al-Modlej, Abeer Alshammari, and **Muhammad Naeem Anjum.** "Effect of solvents on optical band gap of silicon-doped graphene oxide." *Materials Research Express* 5, no. 3 (2018): 035017.

17. Ali, Rajjab, Zaheer Abbas Gilani, Muhammad Shahzad Shifa, HM Noor Ul Huda Khan Asghar, Muhammad Azhar Khan, **Muhammad Naeem Anjum**, Muhammad Nauman Usmani, Muhammad Farooq Warsi, and Imtiaz U. Khawaja. "Evaluation and comparision of dc resistivity of NiZrxCoxFe2− 2xO4, Ni0. 5Sn0. 5CoxMnxFe2− 2xO4, Mg1− xCaxNiyFe2− yO4 and Mg1− xNixCoyFe2− yO4 nanocrytalline materials." *Materials Research Express* 4, no. 11 (2017): 115009.

18. Gilani, Zaheer Abbas, Muhammad Shahzad Shifa, Muhammad Azhar Khan, **Muhammad Naeem Anjum**, Muhammad Nauman Usmani, Rajjab Ali, and Muhammad Farooq Warsi. "New LiCo0. 5PrxFe2− xO4 nanoferrites: Prepared via low cost technique for high density storage application." *Ceramics International* 44, no. 2 (2018): 1881-1885.

19. Warsi, Mohamed Farooq, Zaheer Abbas Gilani, Najeeb Fuad Al-Khalli, Mansoor Sarfraz, Muhammad Azhar Khan, **Muhammad Naeem Anjum**, and Imran Shakir. "New LiNi0. 5PrxFe2− xO4 nanocrystallites: Synthesis via low cost route for fabrication of smart advanced technological devices." *Ceramics International* 43, no. 17 (2017): 14807-14812.

20. Asghar[abc], HMN Khan, MS Shifa, ZA Gilani, P. Wang, JU Rehman, **MN Anjum**, MN Usmani et al. "Redistribution of carbon from silicon by electron beam melting."

21. Gilani, Z. A., **M. N. Anjum**, S. Shifa, HMN UL HUDA KHAN, J. U. ASGHARa, M. N. Usmani, S. Aslam, M. A. Khan, Muhammad Shahid, and M. F. Warsi. "Morphological and magnetic behavior of neodymium doped LiNi0. 5Fe2O4 nanocrystalline ferrites prepared via micro-emulsion technique." *J. Nanomater. Biostruct* 12 (2017): 223-228.

22. Rehman, Ateeque Ur, Saeed Ahmad Buzdar, Muhammad Hassan, Asghar Gadi, Muhammad Afzal Khan, and **Muhammad Naeem Anjum.** "Impact of brachytherapy applicators geometry on dose distribution in gynaecological cancer." *J Pak Med Assoc* 66 (2016): 1566-1570.

23. Hassan, Muhammad, M. M. Waheed, and **M. N. Anjum.** "Dose of radiation enhancement, using silver nanoparticles in a human tissue equivalent gel dosimeter." *JPMA. The Journal of the Pakistan Medical Association* 66, no. 1 (2016): 45-48.

24. Gilani, Zaheer Abbas, Muhammad Farooq Warsi, Muhammad Azhar Khan, Imran Shakir, Muhammad Shahid, and **Muhammad Naeem Anjum.** "Impacts of neodymium on structural, spectral and dielectric properties of LiNi0. 5Fe2O4 nanocrystalline ferrites fabricated via micro-emulsion technique." *Physica E: Low-dimensional Systems and Nanostructures* 73 (2015): 169-174.

25. Gilani, Zaheer Abbas, Muhammad Farooq Warsi, **Muhammad Naeem Anjum**, Imran Shakir, Shahzad Naseem, Saira Riaz, and Muhammad Azhar Khan.

"Structural and electromagnetic behavior evaluation of Nd-doped lithium–cobalt nanocrystals for recording media applications." *Journal of Alloys and Compounds* 639 (2015): 268-273.

26. Kildea, J., **M. N. Anjum**, M. Evans, and W. Parker. "SU-E-T-57: Comprehensive Web-Based QA in Radiation Oncology." *Medical Physics* 38, no. 6 Part11 (2011): 3498-3498.

27. **Anjum, M. N**., W. Parker, I. Aldahlawi, R. Ruo, and M. Afzal. "Evaluation of treatment planning system monitor unit calculations for three intensity modulated radiotherapy delivery techniques." (2011): 145-150.

28. **Anjum, Muhammad Naeem**, William Parker, Russell Ruo, Ismail Aldahlawi, and Muhammad Afzal. "IMRT quality assurance using a second treatment planning system." *Medical Dosimetry* 35, no. 4 (2010): 274-279.

29. **Anjum, Muhammad Naeem,** William Parker, Russell Ruo, and Muhammad Afzal. "Evaluation criteria for film based intensity modulated radiation therapy quality assurance." *Physica medica* 26, no. 1 (2010): 38-43.

30. **Anjum, M. N**., A. Qadir, and M. Afzal. "Dosimetric evaluation of a treatment planning system using pencil beam convolution algorithm for enhanced dynamic wedges with symmetric and asymmetric fields." *Iranian Journal of Radiation Research* 5, no. 4 (2008): 169-174.

References:

1. Dr. John Kildea McGill University Health Centre, Montreal General Hospital, Canada.
   E-mail: jkildea@gmail.com
2. Prof. Dr. Muhammad Afzal (Retired) Department of Physics, The Islamia University of Bahawalpur, Pakistan.
   E-mail: afzalrao@hotmail.com