Curriculum Vitae

Name- Dr. Mohd. Zubair
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Nationality: Indian

A.)Academic profile

Ph. D: Applied Physics (2014) A.M.U., Aligarh, India
Specialization: Computational Physics, Spectroscopy
Research Title: "Natural Radioactivity and Ionizing Radiation Measurements in Environment"

B.) Post-Graduation

M. Sc., Physics from C.C.S. University Meerut, India,
Grade/(%): First Division in 2006
Specialization: Physical Electronics

C.) Bachelors Degree

B. Sc. from C.C.S University Meerut, India,
Grade/(%): Second Division in 2004
Specialization: Physics, Chemistry and Mathematics

Research Experience

(1) Research Associate awarded from Council of Scientific and Industrial Research, New Delhi (01/05/2017-30/04/2020)

Teaching Experience

(1) Assistant Professor in Institute of Technology and Management in Aligarh (20/10/2020-till date
(2) Assistant Professor in Physics section, Polytechnic, A.M.U. Aligarh (03/10/2018-02/11/2018)

(3) Assistant Professor in Physics section, Polytechnic, A.M.U. Aligarh (06/08/2018-05/09/2018)
(4) Guest teacher in Physics section, Polytechnic, A.M.U. Aligarh (01/11/2016-31/05/2017)
(5) Assistant Professor (Adhoc) in Physics section, Polytechnic, A.M.U. Aligarh (01/09/2016-31/10/2016)
(6) Guest teacher in Physics department A.M.U. Aligarh (2015-2016)
(7) Assistant Professor in Shivdan Singh Institute of Technology & Management (SSITM), Aligarh (30-07-2014-10-06-2015)
(8) 4 year teaching experience (B Tech I Year lab) in Department of Applied Physics, Aligarh Muslim University, Aligarh (2008, 09, 10, 12)

Fellowship awarded:

(1) Research Associate award funded by C.S.I.R. New Delhi (28 April 2017- 30/04/2020)
(2) Senior Research Fellow Funded by U.G.C. M.A.N.F. New Delhi (01/04/2012)-(28/12/2012)
(3) Junior Research Fellow Funded by U.G.C. M.A.N.F. New Delhi (01/04/2010)-(31/03/2012)
(4) University Research Scholarship Funded by UGC New Delhi (01/01/2008)-(31/04/2010)

Travel grant:

(1) Travel grant sanctioned to attend Int. Conf. held in Mexico during 04 - 09 Sep. 2011.
(2) Travel grant sanctioned to attend Int. Conf. held in Japan during Feb. 29 to Mar. 3 2011.

Courses Taught:

At Graduate level:

1. NAS-101 Engg. Physics-I, NAS-151 Engg. Physics Lab
2. NAS-201 Engg. Physics-II, NAS-251 Engg. Physics Lab
3. Applied Physics-I and Applied Physics Lab
4. Applied Physics –II and Applied Physics lab II
5. Renewable energy

Membership of Scientific Organization: Life member of Nuclear Track Society of India

Field of Specialization: Environmental radioactivity

Publications: (1) Published in International Journal – 12
(2) Communicated in International Journal - 06
(3) Paper in International Conference / Symposium - 06
(4) Published in Indian Seminar/ Symposia/Conference – 06

Ph. D Teaching Program Attended: Ph. D Teaching Program, Advanced Lecture Series, Semester-II, Module 1.3: Detectors & Transducers, Module 2.3: Accelerators, held at IUAC, New Delhi, during 13th March, 2009 to 2nd April, 2009.

Practical examiner in B Tech in 2014-2015

(1) Dr. K. N. Modi Engg. College, Modinagar affiliated to U.P.T.U. Lucknow (Code 515)
(2) Vision Institute of Technology, Aligarh affiliated to U.P.T. U. Lucknow (Code 524)

LIST OF PUBLICATION

Papers in International Journals:

(1) M. Zubair and Shafiqullah (2020) Measurement of Indoor Radon and Thoron from Firozabad City, Uttar Pradesh, India: A Case Study Journal Geological Society of India Vol.96, pp.01-06

(2) **Zubair, Mohd.,** Verma, Deepak, (2020) Estimation of ^{238}U, ^{232}Th and ^{40}K in soil samples collected from different places in Jharkhand state, India. DOP 13/02/2020 Heliyon 6 e03430 Impact factor 1.6 ISSN 0970-3950

(3) **Zubair, Mohd.,** and Shafiqullah (2018) The study of radon exhalation rate from sand samples collected from the high background radiation area at Unniyal beach placer deposit of Kerala, India using plastic track detectors. DOP 15/05/2018 Journal of Metrology Society of India December 2018, Volume 33, Issue 4, pp 441–448 Impact factor 1.0

(4) **Zubair, Mohd.,** Verma, Deepak, Azam, Ameer, Roy, Sukanta, (2013) Natural radioactivity and radiological hazard assessment of soil using Gamma-ray Spectrometry. Radiation Protection and dosimetry 155(4), Impact factor 0.822

(5) Khan, M. Shakir, **Zubair, M.,** Verma, Deepak, Naqvi, A. H., Azam, Ameer, Bhardwaj, M. K., (2011) The study of indoor radon in the urban dwellings using plastic track detectors. Environmental Earth Science, 63, 279–282. Impact factor 1.1

(6) Verma, Deepak, Khan, M. Shakir, **Zubair, Mohd.,** (2012) Assessment of effective radium content and radon exhalation rates in soil samples. J. Rad. Nucl. Chemistry 294, 267-270. Impact factor 1.520

(7) Verma, Deepak, Khan, M. Shakir Khan, **Zubair, Mohd.,** (2012) Radon and its progeny measurements in dwellings of Farrukhabad city of Uttar Pradesh in Northern India. Indian Journal of Pure and Applied Physics, 50, 355-357. Impact factor 0.763

(8) **Zubair, Mohd.,** Khan, M. Shakir, Verma, Deepak, (2012) Measurement of radium concentration and radon exhalation rates of soil samples collected from some areas of Bulandshahr district, Uttar Pradesh, India using plastic track detectors. Iran Journal of Radiation Research, 10(2), 83-87. Impact factor 0.22

(9) **Zubair, Mohd.,** Khan, M. Shakir, Verma, Deepak, (2011) Radium studies in sand samples using track etch technique. International Journal of Applied Science and Engineering, 9(1), 43-47.

(10) **Zubair, Mohd.,** Khan, M. Shakir, Verma, Deepak, (2011) Assessment of indoor radon, thoron and its decay products in factory area Firozabad district, Uttar Pradesh, India. Archives of Applied Science Research, 3(1), 77-82.

(11) **Zubair, Mohd.,** Verma, Deepak, (2015) Natural radioactivity measurements in rock samples of Jharkhand state of India. Radiation Protection and Environment 38(1), 11-13.

(12) Verma, Deepak, Khan, M. Shakir, **Zubair, Mohd.,** (2012) Measurements of indoor radon, Thororon and their Progeny in Farrukhabad city of Uttar Pradesh, India. Iranian Journal of Radiation Research, 10(3-4): 193-196. Impact factor 0.22

Papers Accepted in International Conference/ Symposium

(1) **Zubair, Mohd.,** Verma, Deepak, (2011) Radon activity and radon exhalation rate studies in sand samples collected from sea coast of Tirur, Kerala, India using track etch technique. In 25th International Conference on Nuclear Tracks in Solids. Puebla, Pue., México held at September 4-9. Abstract Id: 141

(2) **Zubair, Mohd.,** Verma, Deepak, (2011) Measurement of indoor radon and thoron using Twin Cup dosimeters with LR-115 type II plastic track detector. Accepted in 21th AARST's International Radon Symposium Orlando, Florida USA held at October 16-19.
(3) **Zubair, Mohd.,** Verma, Deepak, (2012) Natural radioactivity and radiological hazard assessment of soil using Gamma-ray Spectrometry. In International Symposium on the Natural Radiation Exposures and Low Dose Radiation Epidemiological Studies (NARE 2012)" held at Hirosaki, Japan, on February 29 to March 3. Symposium ID: 4.
(4) **Zubair, Mohd.,** Verma, Deepak, (2012) Estimation of 238U, 232Th and 40K of soil samples collected from Dhanbad in Jharkhand State, India. In International Symposium on the Natural Radiation Exposures and Low Dose Radiation Epidemiological Studies (NARE 2012)" held at Hirosaki, Japan, on February 29 to March 3, 2012. Symposium ID: 206.
(5) **Zubair, Mohd.,** Verma, Deepak, (2012) Measurements of natural radioactivity in rock samples of Jharkhand city in India. In 11th Radiation Physics and Protection Conference (11rpcp -63) held at Ismailia, Egypt, on 25-28, November.
(6) **Zubair, Mohd.**, Verma, Deepak, (2013) Measurement of natural radioactivity in rock samples collected from Lalitpur, India using Gamma-ray spectroscopy. In Second Internatinal Conference on Po and Radioactive Pb isotopes (INCO-PoPb-2013) in Mangalore University, Mangalore, India during February 10-13. Symposium ID: 03

Papers published in Indian symposium / conferences

(1) Zubair, Mohd., Khan, M. Shakir, Verma, Deepak, Bhardwaj, M. K., (2009): Investigation of radon exhalation rate and radium from soil samples using SSNTD's. In the proceeding of 16th National Symposium on (SSNTD-16), held at Department of Physics, Guru Nanak Dev University, Amritsar, India, November 9-11, Book of Abstract pp. 37.
(2) Khan, M. Shakir, Azam, Ameer, Naqvi, A. H., Verma, Deepak, Zubair, M., Bhardwaj, M. K. (2009): Radium and radon exhalation studies in soil samples. In the proceeding of 18th National Symposium on Radiation Physics (NSRP-18), held at Department of Physics, University College of Science, M. L. Sukhadia University, Udaipur-313001 (Rajasthan) India, November 19-21, Book of Abstract pp.155.
(3) Zubair, Mohd., Khan, M. Shakir, Verma, Deepak, Bhardwaj, M. K. (2009): Measurement of radon concentration and effective dose rate in industrial area using LR-115 type II detectors. In the proceeding of National Conference on Accelerator and Low Level Radiation Safety (NCALLRS), held at Inter University Accelerator Centre, New Delhi-110067, India, November 18-20, 2009. Book of Abstract pp. 55.
(4) Zubair, Mohd., Khan, M. Shakir, Verma, Deepak, Bhardwaj, M. K. (2009): Assessment of home radon and its decay products in factory area Firozabad district, Uttar Pradesh, India. In the proceeding of Abstract of National Conference on Accelerator and Low Level Radiation Safety (NCALLRS), held at Inter University Accelerator Centre, New Delhi-110067, India, November 18-20, Book of Abstract pp. 128.
(5) Khan, M. Shakir, Azam, Ameer, Naqvi, A. H., Verma, Deepak, Zubair, M., Bhardwaj, M. K. (2009) Indoor radon and its short-lived daughter products measurements in the urban dwellings of northern India. In the Proceeding of DAE-BRNS "Nuclear and Radiochemistry Symposium" held at Mithibai College, Mumbai- 400056, India, January 7–10, pp. 601.
(6) Khan, M. Shakir, Azam, Ameer, Naqvi, A. H., Verma, Deepak, Zubair, M., Bhardwaj, M. K. (2009): Measurement of indoor air concentrations of radon, thoron and their progeny using twin cup dosimeters in rural areas of northern India. In the proceeding of 16th National Symposium

on (SSNTD-16), held at Department of Physics, Guru Nanak Dev University, Amritsar, India, November 9-11, 2009. Book of Abstract pp. 22.