Muhammad Rafique

List of Publications by Year
in descending order

83 papers	1,014 citations	516215 16 h-index	580395 25 g-index
86 all docs	86 docs citations	86 times ranked	663 citing authors

#	Article	IF	Citations
1	Evaluation of excess life time cancer risk from gamma dose rates in Jhelum valley. Journal of Radiation Research and Applied Sciences, 2014, 7, 29-35.	0.7	52
2	Symbolic time series analysis of electroencephalographic (EEG) epileptic seizure and brain dynamics with eye-open and eye-closed subjects during resting states. Journal of Physiological Anthropology, 2017, 36, 21.	1.0	41
3	Measurement of naturally occurring/fallout radioactive elements and assessment of annual effective dose in soil samples collected from four districts of the Punjab Province, Pakistan. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 647-655.	0.7	38
4	Radon exhalation rate from soil, sand, bricks, and sedimentary samples collected from Azad Kashmir, Pakistan. Russian Geology and Geophysics, 2011, 52, 450-457.	0.3	35
5	Indoor radon concentration measurement in the dwellings of district Poonch (Azad Kashmir), Pakistan. Radiation Protection Dosimetry, 2010, 138, 158-165.	0.4	34
6	Automated Breast Cancer Detection Using Machine Learning Techniques by Extracting Different Feature Extracting Strategies. , 2018, , .		34
7	Automated anomalous behaviour detection in soil radon gas prior to earthquakes using computational intelligence techniques. Journal of Environmental Radioactivity, 2019, 203, 48-54.	0.9	34
8	Radiological hazards due to naturally occurring radionuclides in the selected building materials usedfor the construction of dwellings in four districts of the Punjab Province, Pakistan. Radiation Protection Dosimetry, 2013, 153, 352-360.	0.4	30
9	Descriptive analysis and earthquake prediction using boxplot interpretation of soil radon time series data. Applied Radiation and Isotopes, 2019, 154, 108861.	0.7	29
10	The optically stimulated luminescence (OSL) properties of LiF:Mg,TI, Li2B4O7:CU, CaSO4:Tm, and CaF2:MN thermoluminescent (TL) materials. Applied Radiation and Isotopes, 2015, 99, 155-161.	0.7	28
11	Assessment of indoor radon doses received by the students in the Azad Kashmir schools, Pakistan. Radiation Protection Dosimetry, 2010, 142, 339-346.	0.4	27
12	Ambient indoor/outdoor gamma radiation dose rates in the city and at high altitudes of Muzaffarabad (Azad Kashmir). Environmental Earth Sciences, 2013, 70, 1783-1790.	1.3	27
13	Delegated Regressor, A Robust Approach for Automated Anomaly Detection in the Soil Radon Time Series Data. Scientific Reports, 2020, 10, 3004.	1.6	26
14	Detection of toxicity in some oral antidiabetic drugs using LIBS and LA-TOF-MS. Microchemical Journal, 2020, 155, 104679.	2.3	20
15	Indoor Radon Concentrations and Assessment of Doses in Four Districts of the Punjab Province - Pakistan. Journal of Radiation Research, 2009, 50, 529-535.	0.8	17
16	Indoor radon monitoring near an<i>in situ</i>leach mining site in D G Khan, Pakistan. Journal of Radiological Protection, 2012, 32, 427-437.	0.6	17
17	Twisted electrostatic waves in a selfâ€gravitating dusty plasma. Contributions To Plasma Physics, 2017, 57, 404-413.	0.5	17
18	Anomalies Prediction in Radon Time Series for Earthquake Likelihood Using Machine Learning-Based Ensemble Model. IEEE Access, 2022, 10, 37984-37999.	2.6	17

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19	Radiometric analysis of rock and soil samples of Leepa Valley; Azad Kashmir, Pakistan. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 2049-2056.	0.7	16
20	General Public's and Physicians' Perception of Health Risk Associated with Radon Exposure in the State of Azad Jammu and Kashmir. Public Health Nursing, 2008, 25, 327-335.	0.7	15
21	Determination of radon exhalation from granite, dolerite and marbles decorative stones of the Azad Kashmir area, Pakistan. International Journal of Environmental Science and Technology, 2013, 10, 1083-1090.	1.8	15
22	Computer simulation of corrosion product activity in primary coolants of a typical PWR under flow rate transients and linearly accelerating corrosion. Annals of Nuclear Energy, 2003, 30, 831-851.	0.9	14
23	Kinetic study of corrosion product activity in primary coolant pipes of a typical PWR under flow rate transients and linearly increasing corrosion rates. Journal of Nuclear Materials, 2005, 346, 282-292.	1.3	14
24	Simulation of corrosion product activity for nonlinearly rising corrosion on inner surfaces of primary coolant pipes of a typical PWR under flow rate transients. Applied Radiation and Isotopes, 2005, 62, 681-692.	0.7	14
25	Measurement and Comparison of Indoor Radon Levels in New and Old Buildings in the City of Muzaffarabad(Azad Kashmir), Pakistan:a Pilot Study. Radioisotopes, 2009, 58, 749-760.	0.1	14
26	Classification of heart rate signals of healthy and pathological subjects using threshold based symbolic entropy. Acta Biologica Hungarica, 2014, 65, 252-264.	0.7	14
27	Calibration-free laser-induced breakdown spectroscopic analysis of copper-rich mineral collected from the Gilgit-Baltistan region of Pakistan. Applied Optics, 2020, 59, 68.	0.9	14
28	Estimation of concentration and exposure doses due to radon by using CR-39 plastic track detectors in the residences of Sudhnuti, Azad Kashmir, Pakistan. Environmental Earth Sciences, 2012, 66, 1225-1232.	1.3	13
29	Geo-spatial analysis of radon in spring and well water using kriging interpolation method. Water Science and Technology: Water Supply, 2019, 19, 222-235.	1.0	13
30	MHD Flow of a Viscous Fluid over an Exponentially Stretching Sheet in a Porous Medium. Journal of Applied Mathematics, 2014, 2014, 1-8.	0.4	12
31	Evaluation of radon induced lung cancer risk in occupants of the old and new dwellings of the Dera Ismail Khan City, Pakistan. Journal of Radioanalytical and Nuclear Chemistry, 2014, 300, 1209-1215.	0.7	12
32	Imputation by feature importance (IBFI): A methodology to envelop machine learning method for imputing missing patterns in time series data. PLoS ONE, 2022, 17, e0262131.	1.1	12
33	Assessment of Annual Effective Dose Due to the Indoor Radon Exposure in Districts Bagh and Kahuta of the Azad Kashmir, Pakistan. Indoor and Built Environment, 2012, 21, 458-464.	1.5	11
34	Age-dependent annual effective dose estimations of 226Ra, 232Th, 40K and 222Rn from drinking water in Baling, Malaysia. Water Science and Technology: Water Supply, 2018, 18, 32-39.	1.0	10
35	The Influence of Geology on Indoor Radon Concentrations in Neelum Valley Azad Kashmir, Pakistan. Indoor and Built Environment, 2012, 21, 718-726.	1.5	9
36	Time series analysis and risk assessment of domestic radon: Data collected in dwellings along fault lines. Indoor and Built Environment, 2016, 25, 397-406.	1.5	9

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37	Detrended cross correlation analysis (DCCA) of radon, thoron, temperature and pressure time series data. Physica Scripta, 2020, 95, 085213.	1.2	9
38	Study of diurnal and seasonal variations in the time series data of soil ^{222}Rn gas. International Journal of Environmental Analytical Chemistry, 2021, 101, 337-350.	1.8	9
39	Multifractal detrended fluctuation analysis of soil radon (222Rn) and thoron (220Rn) time series. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 425-434.	0.7	9
40	On fractal dimensions of soil radon gas time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2022, 227, 105775.	0.6	9
41	Analysis of an Iron-Copper Alloy by Calibration-Free Laser-Induced Breakdown Spectroscopy (CF-LIBS) and Inductively Coupled Plasma – Mass Spectrometry (ICP-MS). Analytical Letters, 2022, 55, 2239-2250.	1.0	9
42	A novel dual-channel brain tumor detection system for MR images using dynamic and static features with conventional machine learning techniques. Waves in Random and Complex Media, 0, , 1-20.	1.6	9
43	Growth rate instabilities with finite OAM in non-Maxwellian plasmas: Saturn's magnetosphere. Planetary and Space Science, 2018, 159, 11-16.	0.9	8
44	Anomaly Classification for Earthquake Prediction in Radon Time Series Data Using Stacking and Automatic Anomaly Indication Function. Pure and Applied Geophysics, 2021, 178, 1593.	0.8	8
45	232Th, 226Ra, and 40K activities and associated radiological hazards in building materials of Islamabad capital territory, Pakistan. Nuclear Technology and Radiation Protection, 2012, 27, 392-398.	0.3	8
46	Computer simulation of natural convection heat transfer from an assembly of vertical cylinders of PARR-2. Applied Thermal Engineering, 2007, 27, 194-201.	3.0	7
47	Exposure of population from residential radon: a case study for district Hattian, Azad Kashmir, Sub-Himalayas, Pakistan. Radiation Protection Dosimetry, 2012, 152, 98-103.	0.4	7
48	Quantification of elemental composition of Granite Gneiss collected from Neelum Valley using calibration free laser-induced breakdown and energy-dispersive X-ray spectroscopy. Journal of Radiation Research and Applied Sciences, 2020, 13, 362-372.	0.7	7
49	Estimation of annual effective radon doses and risk of lung cancer in the residents of district Bhimber, Azad Kashmir, Pakistan. Nuclear Technology and Radiation Protection, 2011, 26, 218-225.	0.3	7
50	Static and dynamic sensitivity analysis of corrosion product activity in primary coolant circuits of pressurized water reactors. Progress in Nuclear Energy, 2010, 52, 648-654.	1.3	6
51	Radionuclide concentrations in sand samples from riverbanks of Muzaffarabad, Azad Kashmir. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	1.3	6
52	Dust-acoustic waves with finite OAM in a self-gravitating dusty plasma with superthermal energetic tails of electrons and ions. Physica Scripta, 2019, 94, 015601.	1.2	6
53	Compositional Analysis of Chalcopyrite Using Calibration-Free Laser-Induced Breakdown Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 6848.	1.3	6
54	Quantification of Non-Linear Dynamics and Chaos of Ambient Particulate Matter Concentrations in Muzaffarabad City. Aerosol and Air Quality Research, 2017, 17, 849-856.	0.9	6

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55	Sorting a large set of heavily used LiF:Mg,Ti thermoluminescent detectors into repeatable subsets of similar response. Applied Radiation and Isotopes, 2015, 95, 180-187.	0.7	5
56	Radioactive contents and background doses from northern alluvial sediment plains between rivers Ravi and Chenab, Pakistan. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	1.3	5
57	Design of Interrogation Protocols for Radiation Dose Measurements Using Optically-Stimulated Luminescent Dosimeters. Health Physics, 2017, 112, 237-245.	0.3	5
58	Extracting mass concentration time series features for classification of indoor and outdoor atmospheric particulates. Acta Geophysica, 2020, 68, 945-963.	1.0	5
59	Measurement of waterborne radon in the drinking water of the Dera Ismail Khan city using active and passive techniques. Nuclear Technology and Radiation Protection, 2015, 30, 139-144.	0.3	5
60	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. IEEE Transactions on Plasma Science, 2018, 46, 2920-2929.	0.6	4
61	Natural radioactivity and associated radiological hazards in limestone used as raw material in cement of Lucky Cement Factory, Pezu, Pakistan. International Journal of Environmental Analytical Chemistry, 2020, 100, 1287-1298.	1.8	4
62	Chemical Analysis of Thermoluminescent Colorless Topaz Crystal Using Laser-Induced Breakdown Spectroscopy. Minerals (Basel, Switzerland), 2021, 11, 367.	0.8	4
63	A Novel Hybrid Learning System Using Modified Breaking Ties Algorithm and Multinomial Logistic Regression for Classification and Segmentation of Hyperspectral Images. Applied Sciences (Switzerland), 2021, 11, 7614.	1.3	4
64	Soil gas radon mapping of Muzaffarabad city, Pakistan. Nuclear Technology and Radiation Protection, 2016, 31, 291-298.	0.3	4
65	Detection and Quantification of Precious Elements in Astrophyllite Mineral by Optical Spectroscopy. Materials, 2021, 14, 6277.	1.3	4
66	Detection of toxic and trace elements in the environmental samples around an indigenous refinery in Pakistan using LIBS. Laser Physics, 2021, 31, 105601.	0.6	4
67	Simulated Annealing-Based Image Reconstruction for Patients With COVID-19 as a Model for Ultralow-Dose Computed Tomography. Frontiers in Physiology, 2021, 12, 737233.	1.3	4
68	An Improved Imputation Method for Accurate Prediction of Imputed Dataset Based Radon Time Series. IEEE Access, 2022, 10, 20590-20601.	2.6	4
69	Doses to LiFâ€‰:Ti, Mg chips encapsulated in plastic extremity rings as a result of radon gas exposure. Journal of Radiological Protection, 2015, 35, 265-270.	0.6	3
70	A review of radon measurement studies with nuclear track detectors (NTDs) in Azad Kashmir. Indoor and Built Environment, 2017, 26, 447-455.	1.5	3
71	Streaming instability of dust-acoustic mode with helical wavefronts. Chinese Journal of Physics, 2019, 62, 144-150.	2.0	3
72	Numerical simulations of natural convection heat transfer along a vertical cylinder. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 112-130.	1.6	2

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73	Dose response linearity and practical factors influencing minimum detectable dose for various thermoluminescent detector types. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1711.	0.7	2
74	Parametric Study of Time-Dependent Corrosion Product Activity due to ^{56}Mn, ^{58}Co, and ^{60}Co in the Primary Coolant Circuit of a Typical Pressurized Water Reactor. Journal of Chemistry, 2015, 2015, 1-10.	0.9	2
75	Study of gross alpha, gross beta and natural radioactivity in soil samples of district Muzaffarabad. International Journal of Environmental Analytical Chemistry, 2022, 102, 5549-5566.	1.8	2
76	Analyses of MHD Pressure Drop in a Curved Bend for Different Liquid Metals. Journal of Applied Sciences, 2006, 7, 72-78.	0.1	2
77	Classification of rocks radionuclide data using machine learning techniques. Acta Geophysica, 2018, 66, 1073-1079.	1.0	1
78	Radiometric and petrographic characterization of sediment samples collected from Jhelum, Neelum and Kunhar Rivers of Muzaffarabad, Azad Kashmir. Environmental Earth Sciences, 2020, 79, 1.	1.3	1
79	Excessive Lifetime Cancer Risk Assessment due to Short-Term Indoor/Outdoor Ambient Radon and Gamma Dose Rate Exposures. Iranian Journal of Science and Technology, Transaction A: Science, 0, , 1.	0.7	1
80	Sequential and double sequential fission observed in heavy ion interaction Of (11.67 MeV/u)197Au projectile with 197Au target. Brazilian Journal of Physics, 2009, 39, 539-542.	0.7	1
81	Numerical simulations of corrosion product activity in the purification system of a typical PWR under nonlinearly rising corrosion and flow rate perturbations. International Journal of Nuclear Energy Science and Technology, 2008, 4, 132.	0.2	0
82	Measurement of age-dependent radiation ingestion doses due to gross alpha and gross beta exposure from medicinal plants. Isotopes in Environmental and Health Studies, 2022, , 1-14.	0.5	0
83	Intercomparison of environmental gamma doses measured with A NaI (Tl) survey meter and thermoluminescent dosimeters (TLDs) in the Poonch division of Azad Kashmir, Pakistan. Biomedical and Environmental Sciences, 2014, 27, 969-72.	0.2	0