

Muhammad Rafique

List of Publications by Year in descending order

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83
papers

1,014
citations

516561

16
h-index

580701

25
g-index

86
all docs

86
docs citations

86
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	On fractal dimensions of soil radon gas time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2022, 227, 105775.	0.6	9
3	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
4	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
5	An Improved Imputation Method for Accurate Prediction of Imputed Dataset Based Radon Time Series. IEEE Access, 2022, 10, 20590-20601.	2.6	4
6	Anomalies Prediction in Radon Time Series for Earthquake Likelihood Using Machine Learning-Based Ensemble Model. IEEE Access, 2022, 10, 37984-37999.	2.6	17
7	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
8	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
9	Multifractal detrended fluctuation analysis of soil radon (²²² Rn) and thoron (²²⁰ Rn) time series. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 425-434.	0.7	9
10	Chemical Analysis of Thermoluminescent Colorless Topaz Crystal Using Laser-Induced Breakdown Spectroscopy. Minerals (Basel, Switzerland), 2021, 11, 367.	0.8	4
11	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
12	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
13	Detection and Quantification of Precious Elements in Astrophyllite Mineral by Optical Spectroscopy. Materials, 2021, 14, 6277.	1.3	4
14	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
15	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
16	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
17	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
18	Compositional Analysis of Chalcopyrite Using Calibration-Free Laser-Induced Breakdown Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 6848.	1.3	6

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19	Extracting mass concentration time series features for classification of indoor and outdoor atmospheric particulates. <i>Acta Geophysica</i> , 2020, 68, 945-963.	1.0	5
20	Detrended cross correlation analysis (DCCA) of radon, thoron, temperature and pressure time series data. <i>Physica Scripta</i> , 2020, 95, 085213.	1.2	9
21	Delegated Regressor, A Robust Approach for Automated Anomaly Detection in the Soil Radon Time Series Data. <i>Scientific Reports</i> , 2020, 10, 3004.	1.6	26
22	Detection of toxicity in some oral antidiabetic drugs using LIBS and LA-TOF-MS. <i>Microchemical Journal</i> , 2020, 155, 104679.	2.3	20
23	Quantification of elemental composition of Granite Gneiss collected from Neelum Valley using calibration free laser-induced breakdown and energy-dispersive X-ray spectroscopy. <i>Journal of Radiation Research and Applied Sciences</i> , 2020, 13, 362-372.	0.7	7
24	Calibration-free laser-induced breakdown spectroscopic analysis of copper-rich mineral collected from the Gilgit-Baltistan region of Pakistan. <i>Applied Optics</i> , 2020, 59, 68.	0.9	14
25	Streaming instability of dust-acoustic mode with helical wavefronts. <i>Chinese Journal of Physics</i> , 2019, 62, 144-150.	2.0	3
26	Descriptive analysis and earthquake prediction using boxplot interpretation of soil radon time series data. <i>Applied Radiation and Isotopes</i> , 2019, 154, 108861.	0.7	29
27	Automated anomalous behaviour detection in soil radon gas prior to earthquakes using computational intelligence techniques. <i>Journal of Environmental Radioactivity</i> , 2019, 203, 48-54.	0.9	34
28	Dust-acoustic waves with finite OAM in a self-gravitating dusty plasma with superthermal energetic tails of electrons and ions. <i>Physica Scripta</i> , 2019, 94, 015601.	1.2	6
29	Geo-spatial analysis of radon in spring and well water using kriging interpolation method. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 222-235.	1.0	13
30	Growth rate instabilities with finite OAM in non-Maxwellian plasmas: Saturn's magnetosphere. <i>Planetary and Space Science</i> , 2018, 159, 11-16.	0.9	8
31	Age-dependent annual effective dose estimations of ²²⁶ Ra, ²³² Th, ⁴⁰ K and ²²² Rn from drinking water in Baling, Malaysia. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 32-39.	1.0	10
32	Automated Breast Cancer Detection Using Machine Learning Techniques by Extracting Different Feature Extracting Strategies. , 2018, , .		34
33	Radionuclide concentrations in sand samples from riverbanks of Muzaffarabad, Azad Kashmir. <i>Nuclear Science and Techniques/Hewuli</i> , 2018, 29, 1.	1.3	6
34	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2920-2929.	0.6	4
35	Classification of rocks radionuclide data using machine learning techniques. <i>Acta Geophysica</i> , 2018, 66, 1073-1079.	1.0	1
36	A review of radon measurement studies with nuclear track detectors (NTDs) in Azad Kashmir. <i>Indoor and Built Environment</i> , 2017, 26, 447-455.	1.5	3

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37	Symbolic time series analysis of electroencephalographic (EEG) epileptic seizure and brain dynamics with eye-open and eye-closed subjects during resting states. <i>Journal of Physiological Anthropology</i> , 2017, 36, 21.	1.0	41
38	Design of Interrogation Protocols for Radiation Dose Measurements Using Optically-Stimulated Luminescent Dosimeters. <i>Health Physics</i> , 2017, 112, 237-245.	0.3	5
39	Twisted electrostatic waves in a self-gravitating dusty plasma. <i>Contributions To Plasma Physics</i> , 2017, 57, 404-413.	0.5	17
40	Quantification of Non-Linear Dynamics and Chaos of Ambient Particulate Matter Concentrations in Muzaffarabad City. <i>Aerosol and Air Quality Research</i> , 2017, 17, 849-856.	0.9	6
41	Radioactive contents and background doses from northern alluvial sediment plains between rivers Ravi and Chenab, Pakistan. <i>Nuclear Science and Techniques/Hewuli</i> , 2016, 27, 1.	1.3	5
42	Time series analysis and risk assessment of domestic radon: Data collected in dwellings along fault lines. <i>Indoor and Built Environment</i> , 2016, 25, 397-406.	1.5	9
43	Soil gas radon mapping of Muzaffarabad city, Pakistan. <i>Nuclear Technology and Radiation Protection</i> , 2016, 31, 291-298.	0.3	4
44	Dose response linearity and practical factors influencing minimum detectable dose for various thermoluminescent detector types. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 1711.	0.7	2
45	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. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	0.9	2
46	The optically stimulated luminescence (OSL) properties of LiF:Mg,Ti, Li ₂ B ₄ O ₇ :Cu, CaSO ₄ :Tm, and CaF ₂ :Mn thermoluminescent (TL) materials. <i>Applied Radiation and Isotopes</i> , 2015, 99, 155-161.	0.7	28
47	Doses to LiF:Mg,Ti, Mg chips encapsulated in plastic extremity rings as a result of radon gas exposure. <i>Journal of Radiological Protection</i> , 2015, 35, 265-270.	0.6	3
48	Sorting a large set of heavily used LiF:Mg,Ti thermoluminescent detectors into repeatable subsets of similar response. <i>Applied Radiation and Isotopes</i> , 2015, 95, 180-187.	0.7	5
49	Measurement of waterborne radon in the drinking water of the Dera Ismail Khan city using active and passive techniques. <i>Nuclear Technology and Radiation Protection</i> , 2015, 30, 139-144.	0.3	5
50	Classification of heart rate signals of healthy and pathological subjects using threshold based symbolic entropy. <i>Acta Biologica Hungarica</i> , 2014, 65, 252-264.	0.7	14
51	MHD Flow of a Viscous Fluid over an Exponentially Stretching Sheet in a Porous Medium. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-8.	0.4	12
52	Evaluation of radon induced lung cancer risk in occupants of the old and new dwellings of the Dera Ismail Khan City, Pakistan. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 1209-1215.	0.7	12
53	Evaluation of excess life time cancer risk from gamma dose rates in Jhelum valley. <i>Journal of Radiation Research and Applied Sciences</i> , 2014, 7, 29-35.	0.7	52
54	Intercomparison of environmental gamma doses measured with A NaI (Tl) survey meter and thermoluminescent dosimeters (TLDs) in the Poonch division of Azad Kashmir, Pakistan. <i>Biomedical and Environmental Sciences</i> , 2014, 27, 969-72.	0.2	0

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55	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
56	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
57	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
58	Radiological hazards due to naturally occurring radionuclides in the selected building materials used for the construction of dwellings in four districts of the Punjab Province, Pakistan. Radiation Protection Dosimetry, 2013, 153, 352-360.	0.4	30
59	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
60	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
61	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
62	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
63	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
64	²³² Th, ²²⁶ Ra, and ⁴⁰ K 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
65	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
66	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
67	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
68	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
69	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
70	Indoor radon concentration measurement in the dwellings of district Poonch (Azad Kashmir), Pakistan. Radiation Protection Dosimetry, 2010, 138, 158-165.	0.4	34
71	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
72	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

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73	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
74	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
75	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
76	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
77	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
78	Analyses of MHD Pressure Drop in a Curved Bend for Different Liquid Metals. Journal of Applied Sciences, 2006, 7, 72-78.	0.1	2
79	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
80	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
81	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
82	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
83	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