

# Manny Mathuthu

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

715  
citations

840776

11  
h-index

552781

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Health Risk Assessment of Heavy Metals in Soils from Witwatersrand Gold Mining Basin, South Africa. International Journal of Environmental Research and Public Health, 2016, 13, 663.	2.6	331
2	An Assessment of Radiological Hazards from Gold Mine Tailings in the Province of Gauteng in South Africa. International Journal of Environmental Research and Public Health, 2016, 13, 138.	2.6	56
3	The chemical composition of tropospheric aerosols and their contributing sources to a continental background site in northern Zimbabwe from 1994 to 2000. Atmospheric Environment, 2007, 41, 2644-2659.	4.1	45
4	The three-phase theory for plasma focus devices. IEEE Transactions on Plasma Science, 1997, 25, 1382-1388.	1.3	27
5	Heavy metal concentration in soil in the tailing dam vicinity of an old gold mine in Johannesburg, South Africa. Canadian Journal of Soil Science, 2016, 96, 299-304.	1.2	27
6	Recovery of uranium from residue generated during Mo-99 production, using organic solvent extraction. Physics and Chemistry of the Earth, 2020, 115, 102822.	2.9	18
7	Measurement of magnetic field and velocity profiles in 3.6 kJ United Nations University/International Center For Theoretical Physics plasma focus fusion device. Physics of Plasmas, 1996, 3, 4572-4576.	1.9	17
8	Plasma focus characteristics using stainless steel anode. Physica Scripta, 1997, 56, 649-654.	2.5	15
9	Organic solvent extraction of uranium from alkaline nuclear waste. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 687-693.	1.5	15
10	Modelling of Radiological Health Risks from Gold Mine Tailings in Wonderfonteinspruit Catchment Area, South Africa. International Journal of Environmental Research and Public Health, 2016, 13, 570.	2.6	14
11	Assessment of Potentially Toxic Elements as Non-Point Sources of Contamination in the Upper Crocodile Catchment Area, North-West Province, South Africa. International Journal of Environmental Research and Public Health, 2018, 15, 576.	2.6	14
12	Radiological health risk assessment of drinking water and soil dust from Gauteng and North West Provinces, in South Africa. Heliyon, 2020, 6, e03392.	3.2	13
13	Radiological safety of groundwater around a uranium mine in Namibia. Physics and Chemistry of the Earth, 2021, 122, 102915.	2.9	12
14	Assessment of heavy metals and radionuclides in dust fallout in the West Rand mining area of South Africa. Clean Air Journal, 2018, 28, .	0.5	11
15	Radionuclide exposure in animals and the public health implications. Turkish Journal of Veterinary and Animal Sciences, 2015, 39, 381-388.	0.5	10
16	Design, fabrication, and characterization of a 2.3 kJ plasma focus of negative inner electrode. Review of Scientific Instruments, 1997, 68, 1429-1432.	1.3	9
17	Chemical Toxicity of Surface-Based Drinking Water Sources Due to Natural Uranium Pollutant Around Princess Gold Mine Environs in Roodepoort, South Africa. Exposure and Health, 2016, 8, 457-464.	4.9	9
18	Radial Variation of Refractive Index, Plasma Frequency and Phase Velocity in Laser Induced Air Plasma. IEEE Transactions on Plasma Science, 2006, 34, 2554-2560.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Rare earth elements in uranium ore deposits from Namibia: A nuclear forensics tool. <i>Journal of Environmental Radioactivity</i> , 2021, 237, 106668.	1.7	8
20	Determination of trace elements and lanthanide (REE) signatures in uranium mine products in South Africa by means of inductively coupled plasma mass spectrometry. <i>Journal of Geochemical Exploration</i> , 2018, 186, 235-242.	3.2	7
21	Variation of focus action with electrode length for an inner electrode of negative polarity. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 14-18.	1.3	6
22	Determination of lead isotope ratios in uranium mine products in South Africa by means of inductively coupled plasma mass spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 1-12.	1.5	6
23	Modelling the dynamics of the cancer risk due to potentially toxic elements in agricultural soils, in the upper Crocodile River catchment, North-West province, South Africa. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111961.	6.0	6
24	Transfer Rates of <sup>238</sup> U and <sup>232</sup> Th for <i>E. globulus</i> , <i>A. mearnsii</i> , <i>H. filipendula</i> and Hazardous Effects of the Usage of Medicinal Plants From Around Gold Mine Dump Environs. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 15782-15793.	2.6	5
25	Analysis of reaction cross-section production in neutron induced fission reactions on uranium isotope using computer code COMPLET. <i>Applied Radiation and Isotopes</i> , 2018, 139, 81-85.	1.5	4
26	Using lead isotope ratios to distinguish between samples of different uranium mines. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 324, 1-5.	1.5	4
27	Exposure Risks Assessment Due to Gamma Emitting Radionuclides in Soils and Consumable Waters Around Princess Gold Mine Dump in Roodepoort, South Africa. <i>Mine Water and the Environment</i> , 2018, 37, 98-105.	2.0	3
28	Dosimetric evaluation of cobalt-60 teletherapy in advanced radiation oncology. <i>Journal of Radiotherapy in Practice</i> , 2019, 18, 88-92.	0.5	3
29	Assessment of Heavy Metals and Radionuclide Concentrations in Mafikeng Waste Water Treatment Plant. <i>Journal of Water Resource and Protection</i> , 2016, 08, 93-99.	0.8	3
30	Replacement of Soybean Meal with Heat-Treated Canola Meal in Finishing Diets of Meatmaster Lambs: Physiological and Meat Quality Responses. <i>Animals</i> , 2020, 10, 1735.	2.3	3
31	Radionuclides and toxic elements transfer from the princess dump to water in Roodepoort, South Africa. <i>Journal of Environmental Radioactivity</i> , 2016, 153, 201-205.	1.7	2
32	Design and construction of microclimate monitoring system. <i>Review of Scientific Instruments</i> , 2007, 78, 086104.	1.3	1
33	Gas chemical adsorption characterization of lanthanide hexafluoroacetylacetonates. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 312, 355-360.	1.5	1
34	The study of alpha particle induced reactions on bismuth-209 isotopes using computer code COMPLET. <i>Journal of Physics Communications</i> , 2019, 3, 115006.	1.2	1
35	Determining Water Isotope Compositions for the IAEA WICO and North West Villages, South Africa. <i>Water (Switzerland)</i> , 2021, 13, 2801.	2.7	1
36	Investigation of nuclear reaction mechanisms of Nickel isotopes at various energies induced by alpha particles. <i>Journal of Physics Communications</i> , 2019, 3, 115018.	1.2	0

#	ARTICLE	IF	CITATIONS
37	An Assessment of Land Use and Land Cover Changes and Its Impact on the Surface Water Quality of the Crocodile River Catchment, South Africa. , 0, , .		0
38	Isotopic composition and elemental concentrations in groundwater in the Kuiseb Basin and the Cuvelai-Etосha Basin, Namibia. Proceedings of the International Association of Hydrological Sciences, 0, 378, 93-98.	1.0	0