Robert Lindsay

List of Publications by Year
in descending order

53 papers	1,163 citations	430874 18 h-index	377865 34 g-index
53 all docs	53 docs citations	53 times ranked	715 citing authors

#	Article	IF	Citations
1	Folding-model analysis of elastic and inelastic Î±-particle scattering using a density-dependent force. Nuclear Physics A, 1984, 425, 205-232.	1.5	295
2	Approximate treatment of coupled-channels effects in sub-barrier fusion. Journal of Physics G: Nuclear Physics, 1984, 10, 805-822.	0.8	83
3	Displacement energies with the Skyrme Hartreeâ€“Fock method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 49-54.	4.1	77
4	Possible chirality in the doubly-oddTl198nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	2.9	75
5	Preequilibrium proton emission induced by 80 and 120 MeV protons incident onZr90. Physical Review C, 1991, 43, 678-686.	2.9	49
6	Close near-degeneracy in a pair of four-quasiparticle bands in 194Tl. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 83-88.	4.1	38
7	Preequilibrium (p,pâ€™) measurements and calculations forZr90and neighboring nuclei for incident energies up to 200 MeV. Physical Review C, 1994, 49, 1001-1011.	2.9	37
8	Fate of the naturally occurring radioactive materials during treatment of acid mine drainage with coal fly ash and aluminium hydroxide. Journal of Environmental Management, 2014, 133, 12-17.	7.8	37
9	Nonzero Quadrupole Moments of Candidate Tetrahedral Bands. Physical Review Letters, 2010, 104, 022501.	7.8	31
10	Fusion oscillations for symmetric light heavy-ion systems. Nuclear Physics A, 1983, 410, 498-512.	1.5	30
11	Barrier distribution for a â€˜superheavyâ€™ nucleusâ€“nucleus collision. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 27-32.	4.1	29
12	Statistical multistep direct calculations for (p,pâ€™) continuum spectra up to 200 MeV. Physical Review C, 1992, 46, 1030-1044.	2.9	28
13	Adiabatic coupled-channels evaluation of inelastic scattering. Journal of Physics G: Nuclear Physics, 1986, 12, 529-536.	0.8	27
14	Determination of soil, sand and ore primordial radionuclide concentrations by full-spectrum analyses of high-purity germanium detector spectra. Applied Radiation and Isotopes, 2008, 66, 855-859.	1.5	25
15	Obtaining average angular momenta from fusion excitation functions near the Coulomb barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 314, 179-184.	4.1	22
16	A study of airborne radon levels in Paarl houses (South Africa) and associated source terms, using electret ion chambers and gamma-ray spectrometry. Applied Radiation and Isotopes, 2008, 66, 1611-1614.	1.5	22
17	Rotational bands and chirality in 194Tl. European Physical Journal A, 2014, 50, 1.	2.5	22
18	Candidate chiral bands in 198Tl. European Physical Journal A, 2010, 45, 39-50.	2.5	19

#	Article	IF	Citations
19	Characterising fifteen years of continuous atmospheric radon activity observations at Cape Point (South Africa). Atmospheric Environment, 2018, 176, 30-39.	4.1	18
20	DSAM lifetime measurements for the chiral pair in 194Tl. European Physical Journal A, 2016, 52, 1.	2.5	17
21	Scaling of heavy-ion fusion cross sections and other entrance-channel properties. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L269-L275.	3.6	15
22	Benchmarking 136Xe neutrinoless Î²Î² decay matrix element calculations with the 138Ba(p,t) reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135702.	4.1	13
23	Structure in the 02+ excitation function in 12C + 12C scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 136, 322-326.	4.1	12
24	Radon transfer velocity at the waterâ€“air interface. Applied Radiation and Isotopes, 2015, 105, 144-149.	1.5	12
25	0+(GS)â†'2+(4.44 MeV) transition density in12C. Journal of Physics G: Nuclear Physics, 1982, 8, 1215-1229.	0.8	11
26	Single-nucleon transfer to unbound states by means of theHe4(Î±,3He)5He reaction at 158 and 200 MeV. Physical Review C, 1996, 54, 2485-2492.	2.9	11
27	Î³-Ray spectrometry of radon in water and the role of radon to representatively sample aquifers. Applied Radiation and Isotopes, 2008, 66, 1623-1626.	1.5	11
28	Determining the radon exhalation rate from a gold mine tailings dump by measuring the gamma radiation. Journal of Environmental Radioactivity, 2015, 140, 16-24.	1.7	10
29	Î² and Î³ bands in N=88 , 90, and 92 isotones investigated with a five-dimensional collective Hamiltonian based on covariant density functional theory: Vibrations, shape coexistence, and superdeformation. Physical Review C, 2019, 100, .	2.9	10
30	Inclusive (p,pâ€²) reactions on nuclei in the mass range 115 to 181 at incident energies from 120 to 200 MeV. Physical Review C, 1996, 54, 1756-1765.	2.9	9
31	Monitoring the radon flux from gold-mine dumps by Î³-ray mapping. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 775-778.	1.4	8
32	In-field radon measurement in water: a novel approach. Journal of Environmental Radioactivity, 2010, 101, 1024-1031.	1.7	8
33	Single-nucleon transfer to unbound states in the4He(Î±,t)5Lireaction at incident energies of 120, 160, and 200 MeV. Physical Review C, 1998, 57, 1817-1823.	2.9	6
34	Measurement of radon exhalation from a gold-mine tailings dam by Î³-ray mapping. Radiation Physics and Chemistry, 2004, 71, 797-798.	2.8	6
35	Spectroscopy of low lying states in¹³⁶Cs. Journal of Physics: Conference Series, 2016, 689, 012026.	0.4	5
36	Radon and Thoron In-air Occupational Exposure Study within Selected Wine Cellars of the Western Cape (South Africa) and Associated Annual Effective Doses. Health Physics, 2017, 112, 98-107.	0.5	5

#	Article	IF	Citations
37	Radon in groundwater baseline study prior to unconventional shale gas development and hydraulic fracturing in the Karoo Basin (South Africa). Applied Radiation and Isotopes, 2019, 147, 7-13.	1.5	5
38	Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. Journal of Instrumentation, 2021, 16, P08002.	1.2	5
39	Investigation of pair-correlated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mml states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:mprescripts /><mml:none /><mml:mn>134</mml:mn></mml:mmultiscripts></mml:math> via the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:mprescripts	2.9	4
40	Spectroscopy of states in Ba136 using the Ba138(p,t) reaction. Physical Review C, 2021, 104, .	2.9	4
41	Radioactivity of mine water from a gold mine in South Africa. WIT Transactions on Ecology and the Environment, 2013, , .	0.0	3
42	Thoron standard source. Applied Radiation and Isotopes, 2019, 147, 99-104.	1.5	2
43	Corrigendum to â€œBenchmarking 136Xe neutrinoless Î²Î² decay matrix element calculations with the 138Ba(p,t) reactionâ€•[Phys. Lett. B 809 (2020) 135702]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136532.	4.1	2
44	Possible chiral bands in [sup 194]Tl. , 2011, , .		1
45	Nuclear structure studies relevant to ¹³⁶Xe Î²Î² decay. Journal of Physics: Conference Series, 2018, 1056, 012049.	0.4	1
46	Modern African nuclear detector laboratory. Hyperfine Interactions, 2019, 240, 1.	0.5	1
47	Measured and simulated spectra for a 22Na source in a well counter. Radiation Measurements, 2019, 121, 77-85.	1.4	1
48	Pilot Study of Thoron Concentration in an Underground Thorium Mine. Health Physics, 0, Publish Ahead of Print, .	0.5	1
49	Comment on â€˜â€˜Properties of intermediate width structure inC12(12C,12C)12C (02+)â€™â€™. Physical Review C, 1989, 39, 2082-2083.	2.9	0
50	In-situgamma-ray mapping of environmental radioactivity atiThemba LABS and associated risk assessment. Radioprotection, 2009, 44, 825-830.	1.0	0
51	Towards the South African Underground Laboratory (SAUL). Physics Procedia, 2015, 61, 586-590.	1.2	0
52	DSAM lifetime measurements for the chiral bands in194Tl. Journal of Physics: Conference Series, 2016, 724, 012028.	0.4	0
53	Radon-222 measurements at Cape Point: A characterization of a 15 year time series. Clean Air Journal, 2018, 28, .	0.5	0