

Robert Lindsay

List of Publications by Year in descending order

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53
papers

1,163
citations

430442

18
h-index

377514

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 $\hat{I}\pm$ -particle scattering using a density-dependent force. Nuclear Physics A, 1984, 425, 205-232.	0.6	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 Hartree-Fock method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 49-54.	1.5	77
4	Possible chirality in the doubly-odd ^{119}Tl nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	1.1	75
5	Preequilibrium proton emission induced by 80 and 120 MeV protons incident on ^{90}Zr . Physical Review C, 1991, 43, 678-686.	1.1	49
6	Close near-degeneracy in a pair of four-quasiparticle bands in ^{194}Tl . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 83-88.	1.5	38
7	Preequilibrium (p, p^{el}) measurements and calculations for ^{90}Zr and neighboring nuclei for incident energies up to 200 MeV. Physical Review C, 1994, 49, 1001-1011.	1.1	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.	3.8	37
9	Nonzero Quadrupole Moments of Candidate Tetrahedral Bands. Physical Review Letters, 2010, 104, 022501.	2.9	31
10	Fusion oscillations for symmetric light heavy-ion systems. Nuclear Physics A, 1983, 410, 498-512.	0.6	30
11	Barrier distribution for a \hat{I} -superheavy nucleus nucleus collision. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 27-32.	1.5	29
12	Statistical multistep direct calculations for (p, p^{el}) continuum spectra up to 200 MeV. Physical Review C, 1992, 46, 1030-1044.	1.1	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.	0.7	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.	1.5	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.	0.7	22
17	Rotational bands and chirality in ^{194}Tl . European Physical Journal A, 2014, 50, 1.	1.0	22
18	Candidate chiral bands in ^{198}Tl . European Physical Journal A, 2010, 45, 39-50.	1.0	19

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19	Characterising fifteen years of continuous atmospheric radon activity observations at Cape Point (South Africa). <i>Atmospheric Environment</i> , 2018, 176, 30-39.	1.9	18
20	DSAM lifetime measurements for the chiral pair in ^{194}Tl . <i>European Physical Journal A</i> , 2016, 52, 1.	1.0	17
21	Scaling of heavy-ion fusion cross sections and other entrance-channel properties. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1989, 15, L269-L275.	1.4	15
22	Benchmarking ^{136}Xe neutrinoless $\hat{1}^2\hat{1}^2$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 809, 135702.	1.5	13
23	Structure in the 0_2^+ excitation function in $^{12}\text{C} + ^{12}\text{C}$ scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 136, 322-326.	1.5	12
24	Radon transfer velocity at the water-air interface. <i>Applied Radiation and Isotopes</i> , 2015, 105, 144-149.	0.7	12
25	$0_+(GS)\hat{1}^2_+(4.44\text{ MeV})$ transition density in ^{12}C . <i>Journal of Physics G: Nuclear Physics</i> , 1982, 8, 1215-1229.	0.8	11
26	Single-nucleon transfer to unbound states by means of the $^4\text{He}(\hat{1}^\pm, ^3\text{He})^5\text{He}$ reaction at 158 and 200 MeV. <i>Physical Review C</i> , 1996, 54, 2485-2492.	1.1	11
27	$\hat{1}^3$ -Ray spectrometry of radon in water and the role of radon to representatively sample aquifers. <i>Applied Radiation and Isotopes</i> , 2008, 66, 1623-1626.	0.7	11
28	Determining the radon exhalation rate from a gold mine tailings dump by measuring the gamma radiation. <i>Journal of Environmental Radioactivity</i> , 2015, 140, 16-24.	0.9	10
29	$\hat{1}^2$ and $\hat{1}^3$ 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. <i>Physical Review C</i> , 2019, 100, .	1.1	10
30	Inclusive $(p, p\hat{1}^\pm)$ reactions on nuclei in the mass range 115 to 181 at incident energies from 120 to 200 MeV. <i>Physical Review C</i> , 1996, 54, 1756-1765.	1.1	9
31	Monitoring the radon flux from gold-mine dumps by $\hat{1}^3$ -ray mapping. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 213, 775-778.	0.6	8
32	In-field radon measurement in water: a novel approach. <i>Journal of Environmental Radioactivity</i> , 2010, 101, 1024-1031.	0.9	8
33	Single-nucleon transfer to unbound states in the $^4\text{He}(\hat{1}^\pm, t)^5\text{Li}$ reaction at incident energies of 120, 160, and 200 MeV. <i>Physical Review C</i> , 1998, 57, 1817-1823.	1.1	6
34	Measurement of radon exhalation from a gold-mine tailings dam by $\hat{1}^3$ -ray mapping. <i>Radiation Physics and Chemistry</i> , 2004, 71, 797-798.	1.4	6
35	Spectroscopy of low lying states in ^{136}Cs . <i>Journal of Physics: Conference Series</i> , 2016, 689, 012026.	0.3	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. <i>Health Physics</i> , 2017, 112, 98-107.	0.3	5

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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.	0.7	5
38	Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. Journal of Instrumentation, 2021, 16, P08002.	0.5	5
39	Investigation of pair-correlated states in ^{134}Ba via the $^{134}\text{Ba}(p,t)^{133}\text{Ba}$ reaction. Physical Review C, 2021, 104, .	1.1	4
40	Spectroscopy of states in ^{136}Xe using the $^{136}\text{Xe}(p,t)^{135}\text{Xe}$ reaction. Physical Review C, 2021, 104, .	1.1	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.	0.7	2
43	Corrigendum to "Benchmarking ^{136}Xe neutrinoless $\hat{I}^2\hat{I}^2$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction" [Phys. Lett. B 809 (2020) 135702]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136532.	1.5	2
44	Possible chiral bands in ^{194}Tl . , 2011, , .		1
45	Nuclear structure studies relevant to ^{136}Xe $\hat{I}^2\hat{I}^2$ decay. Journal of Physics: Conference Series, 2018, 1056, 012049.	0.3	1
46	Modern African nuclear detector laboratory. Hyperfine Interactions, 2019, 240, 1.	0.2	1
47	Measured and simulated spectra for a ^{22}Na source in a well counter. Radiation Measurements, 2019, 121, 77-85.	0.7	1
48	Pilot Study of Thoron Concentration in an Underground Thorium Mine. Health Physics, 0, Publish Ahead of Print, .	0.3	1
49	Comment on "Properties of intermediate width structure in $^{12}\text{C}(12\text{C},12\text{C})^{12}\text{C}(0_2^+)$ ". Physical Review C, 1989, 39, 2082-2083.	1.1	0
50	In-situ gamma-ray mapping of environmental radioactivity at Themba LABS and associated risk assessment. Radioprotection, 2009, 44, 825-830.	0.5	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 in ^{194}Tl . Journal of Physics: Conference Series, 2016, 724, 012028.	0.3	0
53	Radon-222 measurements at Cape Point: A characterization of a 15 year time series. Clean Air Journal, 2018, 28, .	0.2	0