Rastislav HodÃ¡k

List of Publications by Year in descending order

51 papers	975 citations	471509 17 h-index	434195 31 g-index
51 all docs	51 docs citations	51 times ranked	972 citing authors

#	Article	IF	Citations
1	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). AIP Conference Proceedings, 2017, .	0.4	126
2	Results of the search for neutrinoless double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>decay in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Mo</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>100</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><…	4.7	119
3	The 71Ga(3He,â€‰t) reaction and the low-energy neutrino response. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 134-138.	4.1	65
4	Measurement of the double-beta decay half-life and search for the neutrinoless double-beta decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>48</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>with the…	4.7	63
5	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>150</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and half-life of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>150</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and…	4.7	55
6	experiment on the double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>decaying nuclei<mml:math xmlns:mml="http://www.w…	2.9	47
7	Detailed studies of ^{100}Mo two-neutrino double beta decay in NEMO-3. European Physical Journal C, 2019, 79, 1.	3.9	46
8	Relation between the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>0</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow></mml:math>…	2.9	45
9	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Mo</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>100</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>with the NEMO-3 detector. Physical Review D, 2014, 89, .	4.7	45
10	Investigation of double beta decay of 100Mo to excited states of 100Ru. Nuclear Physics A, 2014, 925, 25-36.	1.5	39
11	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math> decay half-life and search for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>0</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math> decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow…	4.7	39
12	Final results on $${}^mathbf{82 }{hbox {Se}}$$ double beta decay to the ground state of $${}^mathbf{82 }{hbox {Kr}}$$ from the NEMO-3 experiment. European Physical Journal C, 2018, 78, 1.	3.9	39
13	A high intensity ⁶ He beam for the Î²-beam neutrino oscillation facility. Europhysics Letters, 2012, 98, 32001.	2.0	24
14	Use of poly(ethylene naphthalate) as a self-vetoing structural material. Journal of Instrumentation, 2019, 14, P07006-P07006.	1.2	22
15	Quenching of gA deduced from the Î²-spectrum shape of 113Cd measured with the COBRA experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135092.	4.1	21
16	Absolute calibration of imaging plate detectors for electron kinetic energies between 150 keV and 1.75 MeV. Review of Scientific Instruments, 2017, 88, 075105.	1.3	17
17	Calorimeter development for the SuperNEMO double beta decay experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 868, 98-108.	1.6	17
18	The BiPo-3 detector for the measurement of ultra low natural radioactivities of thin materials. Journal of Instrumentation, 2017, 12, P06002-P06002.	1.2	17

#	Article	IF	Citations
19	Can one measure the Cosmic Neutrino Background?. International Journal of Modern Physics E, 2017, 26, 1740008.	1.0	13
20	Development of the ultra-low background HPGe spectrometer OBELIX at Modane underground laboratory. Journal of Instrumentation, 2017, 12, P02004-P02004.	1.2	12
21	Search for Neutrinoless Quadruple- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math> Decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>150</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>	7.8	12
22	Production and release of ISOL beams from molten fluoride salt targets. Nuclear Instruments & Methods in Physics Research B, 2014, 329, 1-5.	1.4	9
23	Beta Decay and the Cosmic Neutrino Background. EPJ Web of Conferences, 2014, 71, 00044.	0.3	9
24	Characterization and long-term performance of the Radon Trapping Facility operating at the Modane Underground Laboratory. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115105.	3.6	8
25	New search for double electron capture in 106Cd decay with the TGV-2 spectrometer. Physics of Atomic Nuclei, 2015, 78, 740-745.	0.4	7
26	Low Radon Cleanroom for Underground Laboratories. Frontiers in Public Health, 2020, 8, 589891.	2.7	7
27	Tritium and rhenium as a probe of cosmic neutrino background. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 075202.	3.6	6
28	Search for the Cosmic Neutrino Background. Journal of Physics: Conference Series, 2015, 580, 012040.	0.4	6
29	The BiPo-3 detector. Applied Radiation and Isotopes, 2017, 123, 54-59.	1.5	5
30	Development of methods for the preparation of radiopure ⁸²Se sources for the SuperNEMO neutrinoless double-beta decay experiment. Radiochimica Acta, 2020, 108, 87-97.	1.2	5
31	Search for the double-beta decay of 82Se to the excited states of 82Kr with NEMO-3. Nuclear Physics A, 2020, 996, 121701.	1.5	5
32	Capturing relic neutrinos with Î²- and double Î²-decaying nuclei. , 2009, , .		4
33	Production and validation of scintillating structural components from low-background Poly(ethylene naphthalate). Journal of Instrumentation, 2022, 17, P01010.	1.2	3
34	Comparison Of Expected Yields For Light Radioactive Beams At SPIRAL-1 And 2. , 2010, , .		2
35	Towards the detection of light and heavy relic neutrinos. Progress in Particle and Nuclear Physics, 2011, 66, 452-456.	14.4	2
36	Double electron capture of 106Cd in the TGV-2 experiment. AIP Conference Proceedings, 2015, , .	0.4	2

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37	Improvement of the energy resolution of the scintillating detectors for the low background measurement. AIP Conference Proceedings, 2015, , .	0.4	2
38	S³-prototype of reactor antineutrino detector. Journal of Instrumentation, 2018, 13, C12013-C12013.	1.2	2
39	Use of poly(ethylene naphthalate) as a self-vetoing structural material. Journal of Physics: Conference Series, 2020, 1468, 012225.	0.4	2
40	Usage of PEN as self-vetoing structural material in the LEGEND experiment. Journal of Instrumentation, 2022, 17, C03031.	1.2	2
41	Opportunities for neutrino experiments at ISOLDE. Journal of Physics: Conference Series, 2013, 408, 012068.	0.4	1
42	Measurement of the distribution of ^207Bi depositions on calibration sources for SuperNEMO. Journal of Instrumentation, 2021, 16, T07012.	1.2	1
43	Commissioning of the COBRA extended demonstrator at the LNGS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1010, 165524.	1.6	1
44	Advanced plastic scintillation detectors for low-background experiments. Journal of Instrumentation, 2022, 17, C02005.	1.2	1
45	Production of high intensity Beta beams at the ISOLDE facility. , 2011, , .		0
46	18Ne production for the Beta beams project. , 2013, , .		0
47	Investigations of 2Î² decay of 106Cd and 58Ni with HPGe spectrometer OBELIX. AIP Conference Proceedings, 2015, , .	0.4	0
48	Status of the SuperNEMO demonstrator. AIP Conference Proceedings, 2015, , .	0.4	0
49	Signal imaging from S³â€"80-channel detector of reactor antineutrinos. Journal of Instrumentation, 2020, 15, C01031-C01031.	1.2	0
50	Design and first tests of the S3 detector of reactor antineutrinos. EPJ Web of Conferences, 2021, 253, 11011.	0.3	0
51	Search for periodic modulations of the rate of double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Mo</mml:mi><mml:mprescripts /><mml:none /><mml:mn>100</mml:mn></mml:mmultiscripts></mml:math> in the NEMO-3 detector. Physical Review C, 2021, 104, .	2.9	0