Daniel Rodriguez

List of Publications by Year in descending order

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257450 265206 1,917 88 24 42 h-index citations g-index papers 91 91 91 895 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Formation of two-ion crystals by injection from a Paul-trap source into a high-magnetic-field Penning trap. Physical Review A, 2022, 105, .	2.5	4
2	Motional quantum metrology in a Penning trap. Europhysics Letters, 2021, 134, 38001.	2.0	5
3	Non-equilibrium coupling of a quartz resonator to ions for Penning-trap fast resonant detection. Quantum Science and Technology, 2021, 6, 044002.	5.8	2
4	Quartz resonators for penning traps toward mass spectrometry on the heaviest ions. Review of Scientific Instruments, 2020, 91, 093202.	1.3	4
5	The TRAPSENSOR facility: an open-ring 7 tesla Penning trap for laser-based precision experiments. New Journal of Physics, 2019, 21, 023023.	2.9	12
6	A quartz amplifier for high-sensitivity Fourier-transform ion-cyclotron-resonance measurements with trapped ions. Review of Scientific Instruments, 2019, 90, 063202.	1.3	5
7	The open LPC Paul trap for precision measurements in beta decay. European Physical Journal A, 2019, 55, 1.	2.5	4
8	Dynamics of an unbalanced two-ion crystal in a Penning trap for application in optical mass spectrometry. Physical Review A, 2019, 100, .	2.5	12
9	A double Paul trap system for the electronic coupling of ions. European Physical Journal: Special Topics, 2018, 227, 445-456.	2.6	3
10	Motional studies of one and two laser-cooled trapped ions for electric-field sensing applications. Journal of Modern Optics, 2018, 65, 613-621.	1.3	4
11	A Single-Ion Reservoir as a High-Sensitive Sensor of Electric Signals. Scientific Reports, 2017, 7, 8336.	3.3	13
12	Recent Upgrades of the SHIPTRAP Setup: On the Finish Line Towards Direct Mass Spectroscopy of Superheavy Elements. Acta Physica Polonica B, 2017, 48, 423.	0.8	6
13	An optimized geometry for a micro Penning-trap mass spectrometer based on interconnected ions. International Journal of Mass Spectrometry, 2016, 410, 22-30.	1.5	10
14	A preparation Penning trap for the TRAPSENSOR project with prospects for MATS at FAIR. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 288-291.	1.4	3
15	Extending the applicability of an open-ring trap to perform experiments with a single laser-cooled ion. Review of Scientific Instruments, 2015, 86, 103104.	1.3	8
16	An online FT-ICR Penning-trap mass spectrometer for the DPS2-F section of the KATRIN experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 757, 54-61.	1.6	2
17	Status of the project TRAPSENSOR. Hyperfine Interactions, 2014, 227, 223-237.	0.5	6
18	Precise measurement of the angular correlation parameter (i) a (i) (sub) (i) $\hat{l}^2\hat{l}^1/2$ (i) (sub) in the (i) \hat{l}^2 (i) decay of (sup) 35 (sup) Ar with LPCT rap. EPJ Web of Conferences, 2014, 66, 08002.	0.3	5

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19	Status of the project TRAPSENSOR: Performance of the laser-desorption ion source. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 522-527.	1.4	8
20	High-precision mass measurements of 203-207Rn and 213Ra with SHIPTRAP. European Physical Journal A, 2013, 49, 1.	2.5	11
21	The advanced trapping facility MATS at FAIR. International Journal of Mass Spectrometry, 2013, 349-350, 255-263.	1.5	2
22	Recent developments for high-precision mass measurements of the heaviest elements at SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 501-505.	1.4	8
23	Extending Penning trap mass measurements with SHIPTRAP to the heaviest elements. , 2013, , . Electron shakeoff following the <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td>0</td></mml:math>		0
24	display="inline"> <mml:msup><mml:mi>β</mml:mi><mml:mo>+</mml:mo></mml:msup> decay of trapped <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow></mml:mrow><mml:mn></mml:mn></mml:msup></mml:math> Ar <mml:math< td=""><td>2.5</td><td>19</td></mml:math<>	2.5	19
25	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msup><mml:mrow></mml:mrow><mml: A Quantum Sensor for Neutrino Mass Measurements. Advances in High Energy Physics, 2012, 2012, 1-24.</mml: </mml:msup>	1.1	7
26	A quantum sensor for applications in neutrino mass spectrometry. , 2012, , .		0
27	First Measurement of Pure Electron Shakeoff in the \hat{I}^2 Decay of TrappedHe+6lons. Physical Review Letters, 2012, 108, 243201.	7.8	45
28	Direct Mapping of Nuclear Shell Effects in the Heaviest Elements. Science, 2012, 337, 1207-1210.	12.6	121
29	A quantum sensor for high-performance mass spectrometry. Applied Physics B: Lasers and Optics, 2012, 107, 1031-1042.	2.2	24
30	One- and two-pulse quadrupolar excitation schemes of the ion motion in a Penning trap investigated with FT-ICR detection. Applied Physics B: Lasers and Optics, 2012, 107, 1019-1029.	2,2	6
31	High-precision method of measuring short-lived nuclides by means of developed systems of ion traps for high-charge ions (MATS project). Atomic Energy, 2012, 112, 139-146.	0.4	1
32	Temperature measurement of 6He +  ions confined in a transparent Paul trap. Hyperfine Interactions, 2011, 199, 21-27.	0.5	8
33	The LPCTrap experiment: measurement of the $\hat{l}^2-\hat{l}^1/2\hat{A}$ angular \hat{A} correlation in 6He+ decay using a transparent Paul trap. Hyperfine Interactions, 2011, 199, 29-38.	0.5	4
34	Dipolar and quadrupolar detection using an FT-ICR MS setup at the MPIK Heidelberg. Hyperfine Interactions, 2011, 199, 347-355.	0.5	9
35	Mass Measurements of Very Neutron-Deficient Mo and Tc Isotopes and Their Impact on <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi>r</mml:mi>cmml:mi>p</mml:math> Process Nucleosynthesis. Physical Review Letters. 2011, 106, 122501.	7.8	46
36	Measurement of the $\hat{l}^2\hat{a}$ correlation coefficient (i) a (i) (sub) $\hat{l}^2\hat{l}^2/2$ (sub) in the \hat{l}^2 decay of trapped (sup) He (sup) + (sup) ions. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 055101.	3.6	55

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37	Temperature measurement of 6He +  ions confined in a transparent Paul trap. , 2011, , 21-27.		O
38	Dipolar and quadrupolar detection using an FT-ICR MS setup at the MPIK Heidelberg., 2011, , 347-355.		0
39	MATS and LaSpec: High-precision experiments using ion traps and lasers at FAIR. European Physical Journal: Special Topics, 2010, 183, 1-123.	2.6	76
40	Penning trap mass measurements of transfermium elements with SHIPTRAP. Hyperfine Interactions, 2010, 196, 225-231.	0.5	4
41	Production and investigations of negative osmium ions for fundamental applications: REOSTRAP. Hyperfine Interactions, 2010, 196, 253-260.	0.5	2
42	Direct mass measurements above uranium bridge the gap to the island of stability. Nature, 2010, 463, 785-788.	27.8	176
43	Penning trap mass measurements on nobelium isotopes. Physical Review C, 2010, 81, .	2.9	47
44	Production of negative osmium ions by laser desorption and ionization. Review of Scientific Instruments, 2010, 81, 013301.	1.3	5
45	Measurement of theLi8half-life. Physical Review C, 2010, 82, .	2.9	12
46	Broad-Band FT-ICR MS for the Penning-Trap Mass Spectrometer MATS. , 2010, , .		3
47	Beta Neutrino Correlation Measurement with Trapped Radioactive Ions. AIP Conference Proceedings, 2010, , .	0.4	1
48	Production and investigations of negative osmium ions for fundamental applications: REOSTRAP. , $2010, 253-260$.		0
49	A broad-band FT-ICR Penning trap system for KATRIN. International Journal of Mass Spectrometry, 2009, 288, 1-5.	1.5	30
50	Position-sensitive ion detection in precision Penning trap mass spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 475-483.	1.6	18
51	Geant4 Monte Carlo simulations for the LPCTrap setup. European Physical Journal A, 2009, 42, 397.	2.5	5
52	Signature of a strong coupling with the continuum in $11\mathrm{Be} + 120\mathrm{Sn}$ scattering at the Coulomb barrier. European Physical Journal A, 2009, 42, 461.	2,5	34
53	Status of the LPCTrap facility at GANIL. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4537-4541.	1.4	11
54	Paul Trapping of RadioactiveHe+6lons and Direct Observation of TheirÎ ² Decay. Physical Review Letters, 2008, 101, 212504.	7.8	51

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55	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mi mathvariant="italic">r</mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mathvariant="italic">p</mml:mathvariant="italic"></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mrow> -process and the <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>2.9</td><td>119</td></mml:math>	2.9	119
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57	Mass Measurements at SHIPTRAP. AIP Conference Proceedings, 2007, , .	0.4	O
58	Precise mass measurements of exotic nucleiâ€"the SHIPTRAP Penning trap mass spectrometer. AIP Conference Proceedings, 2007, , .	0.4	1
59	Mass measurements of exotic nuclides at SHIPTRAP. AIP Conference Proceedings, 2007, , .	0.4	O
60	The LPCTrap facility: A transparent Paul Trap for the search of exotic couplings in the beta decay of radioactive 6He+ions. Journal of Physics: Conference Series, 2007, 58, 431-434.	0.4	1
61	Mass measurements of neutron-deficient radionuclides near the end-point of the rp-process with SHIPTRAP. European Physical Journal A, 2007, 34, 341-348.	2.5	57
62	Towards direct mass measurements of nobelium at SHIPTRAP. European Physical Journal D, 2007, 45, 39-45.	1.3	94
63	Direct mass measurements around A = 146 at SHIPTRAP. European Physical Journal: Special Topics, 2007 150, 329-335.	'2.6	36
64	Search for tensor couplings in the weak interaction. European Physical Journal: Special Topics, 2007, 150, 385-388.	2.6	0
65	The LPCTrap facility for in-trap decay experiments. Hyperfine Interactions, 2007, 174, 15-20.	0.5	4
66	The LPCTrap facility: A novel transparent Paul trap for high-precision experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 876-889.	1.6	43
67	The ion-catcher device for SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 489-500.	1.4	70
68	The LPCTrap experiment: measurement of the β–ν angular correlation in 6He using a transparent Paul trap. Hyperfine Interactions, 2006, 172, 29-33.	0.5	4
69	Mass measurements in the endpoint region of the rp-process at SHIPTRAP. Hyperfine Interactions, 2006, 173, 133-142.	0.5	11
70	Accurate mass measurements on neutron-deficient krypton isotopes. Nuclear Physics A, 2006, 769, 1-15.	1.5	37
71	On-line commissioning of SHIPTRAP. International Journal of Mass Spectrometry, 2006, 251, 146-151.	1.5	38
72	ISOLTRAP Mass Measurements for Weak-Interaction Studies. AIP Conference Proceedings, 2006, , .	0.4	2

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73	The ion-trap facility SHIPTRAP. European Physical Journal A, 2005, 25, 49-50.	2.5	60
74	The LPCTrap for the measurement of the \hat{l}^2 - $\hat{l}^1/2$ correlation in 6He. European Physical Journal A, 2005, 25, 705-707.	2.5	2
75	Mass measurement on the rp-process waiting point 72Kr. European Physical Journal A, 2005, 25, 41-43.	2.5	15
76	Performance of a micro-channel plates position sensitive detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 375-386.	1.6	58
77	ISOLTRAP pins down masses of exotic nuclides. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1775-S1778.	3.6	18
78	Mass Measurement on therp-Process Waiting PointKr72. Physical Review Letters, 2004, 93, 161104.	7.8	60
79	Recent results from the Penning trap mass spectrometer ISOLTRAP. Nuclear Physics A, 2004, 746, 305-310.	1.5	27
80	Towards high-precision mass measurements on 74Rb for a test of the CVC hypothesis and the unitarity of the CKM matrix. Nuclear Physics A, 2004, 746, 635-638.	1.5	3
81	Masses along the rp-process path and large scale surveys on Cu, Ni and Ga with ISOLTRAP. Nuclear Physics A, 2004, 746, 487-492.	1.5	20
82	SHIPTRAP is Trapping: A Capture and Storage Device on Its Way towards a RIB-Facility. Hyperfine Interactions, 2003, 146/147, 245-251.	0.5	6
83	SHIPTRAP: A capture and storage facility on its way towards an RIB-facility. AIP Conference Proceedings, 2002, , .	0.4	1
84	SHIPTRAPâ€"a capture and storage facility for heavy radionuclides at GSI. Nuclear Physics A, 2002, 701, 579-582.	1.5	7
85	HITRAP: A Facility for Experiments with Trapped Highly Charged Ions. Hyperfine Interactions, 2001, 132, 453-457.	0.5	53
86	Status of the SHIPTRAP Project: A Capture and Storage Facility for Heavy Radionuclides from SHIP., 2001,, 463-468.		1
87	HITRAP: A Facility for Experiments with Trapped Highly Charged Ions. , 2001, , 457-461.		7
88	The SHIPTRAP project: A capture and storage facility at GSI for heavy radionuclides from SHIP., 2000, 127, 491-496.		61