Mustapha Laatiaoui

List of Publications by Year
in descending order

71 papers	2,040 citations	346980 22 h-index	274796 44 g-index
72 all docs	72 docs citations	72 times ranked	1731 citing authors

#	Article	IF	Citations
1	Nuclear structure investigations of Es253â^'255 by laser spectroscopy. Physical Review C, 2022, 105, .	1.1	9
2	Advancing Radiation-Detected Resonance Ionization towards Heavier Elements and More Exotic Nuclides. Atoms, 2022, 10, 41.	0.7	3
3	Electronic Structure of Lr+ (Z = 103) from Ab Initio Calculations. Atoms, 2022, 10, 48.	0.7	6
4	Resolution Characterizations of JetRIS in Mainz Using 164Dy. Atoms, 2022, 10, 57.	0.7	4
5	New Developments in the Production and Research of Actinide Elements. Atoms, 2022, 10, 61.	0.7	3
6	Recent progress in laser spectroscopy of the actinides. Progress in Particle and Nuclear Physics, 2021, 116, 103834.	5.6	30
7	Electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Rf</mml:mi></mml:mrow><mml:mo>+</mml:mo> from ab initio calculations. Physical Review A, 2021, 104, .	2.9	5
8	First Study on Nihonium (Nh, Element 113) Chemistry at TASCA. Frontiers in Chemistry, 2021, 9, 753738.	1.8	12
9	A gas-jet apparatus for high-resolution laser spectroscopy on the heaviest elements at SHIP. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 272-276.	0.6	15
10	The performance of the cryogenic buffer-gas stopping cell of SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 280-285.	0.6	14
11	A setup to develop novel Chemical Isobaric SEparation (CISE). Nuclear Instruments & Methods in Physics Research B, 2020, 463, 508-511.	0.6	3
12	Search for elements 119 and 120. Physical Review C, 2020, 102, .	1.1	41
13	Mobility of the Singly-Charged Lanthanide and Actinide Cations: Trends and Perspectives. Frontiers in Chemistry, 2020, 8, 438.	1.8	7
14	K isomerism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rf</mml:mi><mml:mprescripts /><mml:none /><mml:mn>255</mml:mn></mml:mmultiscripts></mml:math> and total kinetic energy measurements for spontaneous fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rf</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>255</mml:mn><mml:mo>,</mml:mo><mml:mn>256</mml:mn><mml	1.1	11
15	Ion Mobilities for Heaviest Element Identification. Hyperfine Interactions, 2020, 241, 1.	0.2	2
16	Exploiting transport properties for the detection of optical pumping in heavy ions. Physical Review A, 2020, 102, .	1.0	8
17	Laser Resonance Chromatography of Superheavy Elements. Physical Review Letters, 2020, 125, 023002.	2.9	14
18	Filament studies for laser spectroscopy on lawrencium. Hyperfine Interactions, 2020, 241, 1.	0.2	6

#	Article	IF	Citations
19	Isomeric States in (^{255})Rf, (^{256})Rf and (^{257})Rf. Acta Physica Polonica B, 2020, 51, 849.	0.3	2
20	Alternative approach to populate and study the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Th</mml:mi><mml:mprescripts /><mml:none /><mml:mn>229</mml:mn></mml:mmultiscripts></mml:math> nuclear clock isomer. Physical Review C, 2019, 100...	1.1	19
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>48</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Bk</mml:mi><mml:mprescripts /><mml:none /><mml:mn>249</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> leading to		

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37	In-gas laser ionization and spectroscopy of actinium isotopes near the N=126 closed shell. Physical Review C, 2017, 96, .	1.1	27
38	Direct detection of the elusive229thorium isomer: Milestone towards a nuclear clock. , 2017, , .		1
39	Recent Upgrades of the SHIPTRAP Setup: On the Finish Line Towards Direct Mass Spectroscopy of Superheavy Elements. Acta Physica Polonica B, 2017, 48, 423.	0.3	6
40	GAS PHASE CHEMISTRY OF SUPERHEAVY ELEMENTS COUPLED TO AN ELECTROMAGNETIC SEPARATOR. , 2017, , .		0
41	On the way to unveiling the atomic structure of superheavy elements. EPJ Web of Conferences, 2016, 131, 05002.	0.1	5
42	Developments towards in-gas-jet laser spectroscopy studies of actinium isotopes at LISOL. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 382-387.	0.6	20
43	Direct detection of the 229Th nuclear clock transition. Nature, 2016, 533, 47-51.	13.7	185
44	Alpha- and EC-decay measurements of 257Rf. European Physical Journal A, 2016, 52, 1.	1.0	14
45	Developments for resonance ionization laser spectroscopy of the heaviest elements at SHIP. Nuclear Instruments & Methods in Physics Research B, 2016, 383, 115-122.	0.6	26
46	Atom-at-a-time laser resonance ionization spectroscopy of nobelium. Nature, 2016, 538, 495-498.	13.7	103
47	Investigation of electron capture decay of 258Db and $alpha$ Î± decay of 258Rf. European Physical Journal A, 2016, 52, 1.	1.0	25
48	The extraction of 229Th3+ from a buffer-gas stopping cell. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 260-264.	0.6	7
49	A VUV detection system for the direct photonic identification of the first excited isomeric state of 229Th. European Physical Journal D, 2016, 70, 1.	0.6	8
50	Levels inTh223populated byÎ±decay ofU227. Physical Review C, 2015, 92, .	1.1	11
51	Nuclear structure studies in the seaborgium region at SHIP. AIP Conference Proceedings, 2015, , .	0.3	0
52	Prospects for laser spectroscopy, ion chemistry and mobility measurements of superheavy elements in buffer-gas traps. Nuclear Physics A, 2015, 944, 492-517.	0.6	46
53	Determination of the extraction efficiency for 233U source Î±-recoil ions from the MLL buffer-gas stopping cell. European Physical Journal A, 2015, 51, 1.	1.0	22
54	The cryogenic gas stopping cell of SHIPTRAP. Nuclear Instruments & Methods in Physics Research B, 2014, 338, 126-138.	0.6	28

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55	In situ synthesis of volatile carbonyl complexes with short-lived nuclides. Journal of Radioanalytical and Nuclear Chemistry, 2014, 303, 2457.	0.7	12
56	Perspectives for laser spectroscopy of the element nobelium. Hyperfine Interactions, 2014, 227, 69-75.	0.2	14
57	On laser spectroscopy of the element nobelium (ZÂ=Â102). European Physical Journal D, 2014, 68, 1.	0.6	18
58	<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:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi>Fm</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>249</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>Fusion	2.9	220
59	Towards a direct transition energy measurement of the lowest nuclear excitation in²²⁹Th. Journal of Instrumentation, 2013, 8, P03005-P03005.	0.5	24
60	Towards an All-optical Access to the Lowest Nuclear Excitation in ^{229m}Th. Acta Physica Polonica B, 2013, 44, 391.	0.3	3
61	Low-field mobilities of rare-earth metals. European Physical Journal D, 2012, 66, 1.	0.6	19
62	Observations of Markarian 421 with the MAGIC Telescope. Astrophysical Journal, 2007, 663, 125-138.	1.6	120
63	Prospects of ion-mobility measurements in superheavy element research. European Physical Journal D, 2007, 45, 139-145.	0.6	5
64	Towards optical spectroscopy of the element nobelium (${sf Z }= mathsf{102}$) in a buffer gas cell. European Physical Journal D, 2007, 45, 99-106.	0.6	33
65	Variable Very-High-Energy Gamma-Ray Emission from the Microquasar LS I +61 303. Science, 2006, 312, 1771-1773.	6.0	334
66	Very high quantum efficiency PMTs with bialkali photo-cathode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 230-232.	0.7	24
67	Development of avalanche-drift and avalanche-pixel detectors for single photon detection and imaging in the optical regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 129-132.	0.7	11
68	Timing properties of an avalanche diode for single photon counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 272-275.	0.7	5
69	Observation of VHE Gamma Radiation from HESS J1834-087/W41 with the MAGIC Telescope. Astrophysical Journal, 2006, 643, L53-L56.	1.6	46
70	Discovery of Very High Energy Î³-Rays from Markarian 180 Triggered by an Optical Outburst. Astrophysical Journal, 2006, 648, L105-L108.	1.6	85
71	The MAGIC Telescope for Gamma-Ray Astronomy above 30 GeV. Research in Astronomy and Astrophysics, 2003, 3, 531-538.	1.1	3