

# Antoine Lemasson

## List of Publications by Year in descending order

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93  
papers

1,698  
citations

304743

22  
h-index

315739

38  
g-index

94  
all docs

94  
docs citations

94  
times ranked

1236  
citing authors

#	ARTICLE	IF	CITATIONS
1	New narrow resonances observed in the unbound nucleus $F_{15}$ . Physical Review C, 2022, 105, .	2.9	7
2	Experimental Evidence for Common Driving Effects in Low-Energy Fission from Sublead to Actinides. Physical Review Letters, 2021, 126, 132502.	7.8	16
3	Accessing tens-to-hundreds femtoseconds nuclear state lifetimes with low-energy binary heavy-ion reactions. European Physical Journal A, 2021, 57, 1.	2.5	6
4	Evidence for enhanced neutron-proton correlations from the level structure of the $N_{44}Z_{87}$ nucleus. Physical Review C, 2021, 104, .	2.9	3
5	HeCTOR: the $^3\text{He}$ Cryogenic Target of Orsay for direct nuclear reactions with radioactive ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1018, 165830.	1.6	3
6	Lifetime measurements in the even-even $Cd_{102}^{66}$ isotopes. Physical Review C, 2021, 104, .	2.9	12
7	The MUGAST-AGATA-VAMOS campaign: Set-up and performances. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1014, 165743.	1.6	14
8	Complete set of bound negative-parity states in the neutron-rich nucleus $N_{18}$ . Physical Review C, 2021, 104, .	2.9	6
9	rather than $\hat{I}^{\pm}$ -cluster states. Physical Review C, 2021, 104, .	2.9	2
10	Prompt-delayed $\hat{I}^3$ -ray spectroscopy of neutron-rich $In_{119,121}$ isotopes. Physical Review C, 2020, 102, .	2.9	3
11	High-spin states above the isomers in neutron-rich iodine nuclei near $N_{82}$ . Structure of $N_{82}$ . Physical Review C, 2020, 102, .	2.9	6
12	and the magicity of the $N_{20}$ gap at $N_{20}$ . Lifetime measurements of excited states in neutron-rich $N_{20}$ . Physical Review C, 2020, 102, .	2.9	5
13	shell-model interactions. Physical Review C, 2020, 102, .	2.9	5
14	Pairing-quadrupole interplay in the neutron-deficient tin nuclei: First lifetime measurements of low-lying states in $^{106,108}\text{Sn}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135474.	4.1	16
15	Scission configuration of $U_{16}$ . Testing $\alpha$ -particle nuclear structure in neutron-rich nuclei: Lifetime measurements of second $\alpha$ -particle. Physical Review C, 2020, 102, .	2.9	14
16	state in $C_{16}$ . Lifetime measurements of the Self-Conjugate Nucleus $^{16}\text{C}$ . Physical Review C, 2020, 102, .	2.9	14
17	Excitations of the magic $N_{50}$ neutron-core revealed in $Ru_{88}$ . Physical Review C, 2019, 100, .	7.8	24
18	neutron-core revealed in $Ga_{81}$ . Physical Review C, 2019, 100, .	2.9	8

#	ARTICLE	IF	CITATIONS
19	Evidence of octupole-phonons at high spin in 207Pb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134797.	4.1	6
20	First Direct Measurement of Isotopic Fission-Fragment Yields of U239. Physical Review Letters, 2019, 123, 092503.	7.8	20
21	Effects of one valence proton on seniority and angular momentum of neutrons in neutron-rich $^{135}\text{Sb}$ isotopes. Physical Review C, 2019, 99, .	13	13
22	Preliminary results of lifetime measurements in neutron-rich 53Ti. EPJ Web of Conferences, 2019, 223, 01022.	0.3	1
23	Lifetime measurements in Ti52,54 to study shell evolution toward N=32. Physical Review C, 2019, 100, .	2.9	14
24	Study of High-Energy Fission in Inverse Kinematics. EPJ Web of Conferences, 2019, 223, 01037.	0.3	0
25	Lifetime Measurements Using RDDS Method in the Vicinity of $^{78}\text{Ni}$ . Acta Physica Polonica B, 2019, 50, 633.	0.8	4
26	Spectroscopy of Neutron-rich C, O, N and F Isotopes with the AGATA+PARIS+VAMOS Setup at GANIL. Acta Physica Polonica B, 2019, 50, 625.	0.8	0
27	Determination of Lifetimes of Excited States in Neutron-rich $^{20}\text{O}$ Isotope from Experiment with the AGATA+PARIS+VAMOS Setup. Acta Physica Polonica B, 2019, 50, 615.	0.8	0
28	Generic features of the neutron-proton interaction. Physical Review C, 2018, 97, .	2.9	5
29	Pseudospin Symmetry and Microscopic Origin of Shape Coexistence in the $^{78}\text{Ni}$ Region: A Hint from Lifetime Measurements. Physical Review Letters, 2018, 121, 192507.	7.8	20
30	Lifetime measurement of the 21+ state in 74Rb and isospin properties of quadrupole transition strengths at $N \approx Z$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 787, 198-203.	4.1	7
31	Deformed band structures in neutron-rich Pm152 $\approx$ 158 isotopes. Physical Review C, 2018, 98, .	2.9	9
32	Measurement of $^{19}\text{Ne}$ spectroscopic properties via a new method of inelastic scattering to study novae. Journal of Physics: Conference Series, 2018, 940, 012003.	0.4	0
33	The performance of the $\hat{\Gamma}^3$ -ray tracking array GRETINA for $\hat{\Gamma}^3$ -ray spectroscopy with fast beams of rare isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 847, 187-198.	1.6	62
34	Conceptual design of the AGATA $\hat{\Gamma}^3$ -ray tracking array at GANIL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 855, 1-12.	1.6	64
35	Toward lifetime and gfactor measurements of short-lived states in the vicinity of 208Pb. Physica Scripta, 2017, 92, 054004.	2.5	1
36	Isomeric Character of the Lowest Observed $4^-$ State in $^{135}\text{S}$ . Physical Review Letters, 2017, 118, 192501.	7.8	16

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37	Measurement of lifetimes in $^{62}\text{Zn}$ and $^{64}\text{Zn}$ . Physical Review Letters, 2017, 118, 082502.	2.9	9
38	Prompt-delayed $^{\gamma}$ -ray spectroscopy with AGATA, EXOGAM and VAMOS++. European Physical Journal A, 2017, 53, 1.	2.5	23
39	Low-lying level structure of $^{56}\text{Cu}$ and its implications for the $^{56}\text{Zn}$ process. Physical Review C, 2017, 95, 014301.	2.9	19
40	The impact of the intruder orbitals on the structure of neutron-rich Ag isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 403-408.	4.1	7
41	Low-lying level structure of $^{36}\text{Kr}$ and $^{96}\text{Kr}$ . Physical Review Letters, 2017, 118, 162501.	7.8	31
42	Evolution of triaxial shapes at large isospin: Rh isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 480-484.	4.1	20
43	A proton density bubble in the doubly magic $^{34}\text{Si}$ nucleus. Nature Physics, 2017, 13, 152-156.	16.7	76
44	Study of Quadrupole Correlations in $N=Z=50$ Region via Lifetime Measurements. Acta Physica Polonica B, 2017, 48, 331.	0.8	3
45	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
46	Lifetime measurement of the $^{58}\text{Ni}$ with the recoil distance method. Physical Review C, 2016, 94, 014301.	2.9	8
47	Isospin Symmetry at High Spin Studied via Nucleon Knockout from Isomeric States. Physical Review Letters, 2016, 117, 082502.	7.8	14
48	Structural changes at large angular momentum in neutron-rich $^{121}\text{Cd}$ and $^{123}\text{Cd}$ . Physical Review C, 2016, 93, 014301.	2.9	9
49	Mirrored one-nucleon knockout reactions to the $^{22}\text{Ne}$ nuclei. Physical Review C, 2016, 93, 014301.	2.9	9
50	Structure of $^{80}\text{Te}$ and $^{82}\text{Sn}$ : The two-particle and two-hole spectrum of $^{82}\text{Sn}$ . Physical Review C, 2016, 93, 014301.	2.9	19
51	Spectroscopy of $^{35}\text{P}$ using the one-proton knockout reaction. Physical Review C, 2016, 93, 014301.	2.9	16
52	Direct Lifetime Measurements of the Excited States in $^{72}\text{Ni}$ . Physical Review Letters, 2016, 116, 122502.	7.8	15
53	Dual Position Sensitive MWPC for tracking reaction products at VAMOS++. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 812, 112-117.	1.6	34
54	Electromagnetic properties of neutron-rich nuclei adjacent to the $Z = 50$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 86-90.	4.1	22

#	ARTICLE	IF	CITATIONS
55	The TRIPLE PLunger for EXotic beams TRIPLEX for excited-state lifetime measurement studies on rare isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 123-131.	1.6	18
56	Triplet energy differences and the low lying structure of $^{62}\text{Ga}$ . Physical Review C, 2015, 92, .	2.9	6
57	Reduced transition strengths of low-lying yrast states in chromium isotopes in the vicinity of $^{40}\text{Cr}$ . Physical Review C, 2015, 92, .	2.9	17
58	Identification of new transitions and mass assignments of levels in $^{153}\text{Pr}$ . Physical Review C, 2015, 92, .	2.9	13
59	Spectroscopy of $^{28}\text{Na}$ : Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8
60	Lifetime measurements of $^{17}\text{C}$ excited states and three-body and continuum effects. Physical Review C, 2015, 92, .	2.9	10
61	Characterization of the scission point from fission-fragment velocities. Physical Review C, 2015, 92, .	2.9	55
62	Transfer-induced fission in inverse kinematics: Impact on experimental and evaluated nuclear data bases. European Physical Journal A, 2015, 51, 1.	2.5	6
63	Neutron single-particle strength in silicon isotopes: Constraining the driving forces of shell evolution. Physical Review C, 2015, 91, .	2.9	12
64	Spectroscopy and lifetime measurements in $^{66}\text{Ge}$ , $^{69}\text{Se}$ , and $^{65}\text{Ga}$ using fragmentation reactions. Physical Review C, 2015, 91, .	2.9	3
65	Magnetic response of the halo nucleus $^{19}\text{C}$ studied via lifetime measurement. Physical Review C, 2015, 91, .	2.9	9
66	Measurement of astrophysically important excitation energies of $^{58}\text{Zn}$ with GRETINA. EPJ Web of Conferences, 2014, 66, 07013.	0.3	0
67	Lifetime measurements of the yrast $^{8+9}\text{Zn}$ in $^{8+9}\text{As}$ . Physical Review C, 2015, 91, .	2.9	5
68	Single-particle structure of silicon isotopes approaching $^{42}\text{Si}$ . Physical Review C, 2014, 90, .	2.9	49
69	Evolution of Collectivity in $^{70}\text{Kr}$ . Physical Review C, 2014, 90, .	7.8	61
70	Determining the $r_p$ -Process Flow through $^{70}\text{Ni}$ . Physical Review C, 2014, 90, .	2.9	32
71	Collectivity in $A \approx 70$ nuclei studied via lifetime measurements in $^{70}\text{Br}$ and $^{70}\text{Se}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 52-57.	4.1	29
72	Isotopic yield distributions of transfer- and fusion-induced fission from $^{238}\text{U}$ reactions in inverse kinematics. Physical Review C, 2013, 88, .	2.9	66

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73	Isotopic Distributions of Fission Fragments from Transfer-induced Fission. Physics Procedia, 2013, 47, 125-130.	1.2	0
74	Role of the cluster structure of ${}^7\text{Li}$ in the dynamics of fragment capture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 931-936.	4.1	71
75	Mirror Energy Differences at Large Isospin Studied through Direct Two-Nucleon Knockout. Physical Review Letters, 2013, 111, 072501.	7.8	24
76	Isotopic fission fragment distributions as a deep probe to fusion-fission dynamics. Journal of Physics: Conference Series, 2013, 420, 012119.	0.4	5
77	Complete isotopic distributions of fragments produced in transfer- and fusion-induced reactions. EPJ Web of Conferences, 2013, 62, 06006.	0.3	0
78	Probing Neutron Pair Transfer with Borromean Isotopes of Helium. , 2013, , 393-404.		0
79	Dynamics of fragment capture for cluster structures of weakly bound ${}^7\text{Li}$ . EPJ Web of Conferences, 2013, 63, 02018.	0.3	1
80	Electron capture in core-collapse supernovae investigated through configuration mixing in neutron-rich nuclei. Journal of Physics: Conference Series, 2012, 381, 012119.	0.4	0
81	Observation of mutually enhanced collectivity in self-conjugate nuclei ${}^{38}\text{Ar} > {}^{76}\text{Sr} > {}^{38}\text{Ar}$ Physical Review C, 2012, 85, .	2.9	39
82	Evolution of isotopic fission-fragment yields with excitation energy. EPJ Web of Conferences, 2012, 31, 00025.	0.3	3
83	Fusion of the most neutron-rich nucleus ${}^8\text{He}$ : Recent results from GANIL. EPJ Web of Conferences, 2011, 17, 01003.	0.3	2
84	Pair and single neutron transfer with Borromean ${}^8\text{He}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 454-458.	4.1	34
85	New gas-filled mode of the large-acceptance spectrometer VAMOS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 558-565.	1.6	17
86	Minor actinide fission induced by multi-nucleon transfer reaction in inverse kinematics. EPJ Web of Conferences, 2010, 2, 07001.	0.3	4
87	Reactions with the double-Borromean nucleus ${}^8\text{He}$ . Physical Review C, 2010, 82, .	2.9	52
88	Isotopic resolution of fission fragments from ${}^{238}\text{U} + {}^{12}\text{C}$ transfer and fusion reactions. , 2009, , .		1
89	Modern Rutherford Experiment: Tunneling of the Most Neutron-Rich Nucleus. Physical Review Letters, 2009, 103, 232701.	7.8	109
90	Exploring Fusion at Extreme Sub-Barrier Energies with Weakly Bound Nuclei. Physical Review Letters, 2009, 103, 232702.	7.8	53

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91	Absolute cross-sections from Xâ€“ coincidence measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 445-449.	1.6	14
92	Prompt $\gamma$ -ray spectroscopy of isotopically identified fission fragments. Physical Review C, 2009, 80, .	2.9	24
93	Transfer With the Borromean Nucleus ${}^6\text{He}$	7.8	95