

Antoine Lemasson

List of Publications by Year in descending order

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93
papers

1,698
citations

304743

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315739

38
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94
all docs

94
docs citations

94
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Modern Rutherford Experiment: Tunneling of the Most Neutron-Rich Nucleus. Physical Review Letters, 2009, 103, 232701. 1 and 2 Transfer With the Borromean Nucleus He	7.8	109
2	Transfer With the Borromean Nucleus He	7.8	95
3	A proton density bubble in the doubly magic ^{34}Si nucleus. Nature Physics, 2017, 13, 152-156.	16.7	76
4	Role of the cluster structure of ^7Li in the dynamics of fragment capture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 931-936.	4.1	71
5	Isotopic yield distributions of transfer- and fusion-induced fission from U $+$ C reactions in inverse kinematics. Conceptual design of the AGATA C	2.9	66
6	overflow="scroll"> 1 Kr 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
7	The performance of the $^{\text{I}^3}$ -ray tracking array GRETINA for $^{\text{I}^3}$ -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
8	Evolution of Collectivity in Kr Kr 72 Evidence for Rapid Shape Transition. Physical Review Letters, 2014, 112, 142502.	7.8	61
9	Characterization of the scission point from fission-fragment velocities. Physical Review C, 2015, 92, .	2.9	55
10	Exploring Fusion at Extreme Sub-Barrier Energies with Weakly Bound Nuclei. Physical Review Letters, 2009, 103, 232702.	7.8	53
11	Reactions with the double-Borromean nucleus He 8. Physical Review C, 2010, 82, .	2.9	52
12	Single-particle structure of silicon isotopes approaching ^{42}Si . Physical Review C, 2014, 90, .	2.9	49
13	Observation of mutually enhanced collectivity in self-conjugate 38 76 Sr	2.9	39
14	Pair and single neutron transfer with Borromean ^8He . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 454-458.	4.1	34
15	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, 2017, 855, 1-12.	1.6	34
16	Determining the r p Ni Kr	7.8	32
17	56 96 Z Boundary of the Island of Deformat. Physical Review Letters, 2017, 118, 162501.	7.8	31
18	Collectivity in $A \approx 70$ nuclei studied via lifetime measurements in ^{70}Br and $^{68,70}\text{Se}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 52-57.	4.1	29

#	ARTICLE	IF	CITATIONS
19	Prompt γ -ray spectroscopy of isotopically identified fission fragments. Physical Review C, 2009, 80, .	2.9	24
20	Mirror Energy Differences at Large Isospin Studied through Direct Two-Nucleon Knockout. Physical Review Letters, 2013, 111, 072501.	7.8	24
21	Isospin Properties of Nuclear Pair Correlations from the Level Structure of the Self-Conjugate Nucleus ^{88}Ru . Physical Review Letters, 2020, 124, 062501.	7.8	24
22	Prompt-delayed γ -ray spectroscopy with AGATA, EXOGAM and VAMOS++. European Physical Journal A, 2017, 53, 1.	2.5	23
23	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
24	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
25	Pseudospin Symmetry and Microscopic Origin of Shape Coexistence in the ^{78}Ni Region: A Hint from Lifetime Measurements. Physical Review Letters, 2018, 121, 192502.	7.8	20
26	First Direct Measurement of Isotopic Fission-Fragment Yields of U239. Physical Review Letters, 2019, 123, 092503.	7.8	20
27	Structure of ^{80}Te : The two-particle and two-hole spectrum of ^{82}Sn . Physical Review C, 2016, 93, .	2.9	19
28	Low-lying level structure of ^{56}Cu and its implications for the ^{56}Ni process. Physical Review C, 2017, 95, .	2.9	19
29	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
30	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
31	Reduced transition strengths of low-lying yrast states in chromium isotopes in the vicinity of ^{40}Ni . Physical Review C, 2015, 92, .	2.9	17
32	Spectroscopy of ^{35}Ar using the one-proton knockout reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 86-90.	2.9	16
33	State in ^{40}Ni . Physical Review Letters, 2016, 116, 122502.	7.8	16
34	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
35	Experimental Evidence for Common Driving Effects in Low-Energy Fission from Sublead to Actinides. Physical Review Letters, 2021, 126, 132502.	7.8	16
36	Direct Lifetime Measurements of the Excited States in ^{72}Ni . Physical Review Letters, 2016, 116, 122502.	7.8	15

#	ARTICLE	IF	CITATIONS
37	Absolute cross-sections from X α coincidence measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 445-449.	1.6	14
38	Isospin Symmetry at High Spin Studied via Nucleon Knockout from Isomeric States. Physical Review Letters, 2016, 117, 082502.	7.8	14
39	Lifetime measurements in Ti ^{52,54} to study shell evolution toward N=32. Physical Review C, 2019, 100, .	2.9	14
40	Scission configuration of ^{239}Pu from yields and kinetic information of fission fragments. Physical Review C, 2020, 101, .	2.9	14
41	state in ^{16}C and ^{16}O . Physical Review C, 2019, 99, .	2.9	14
42	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
43	Identification of new transitions and mass assignments of levels in Pr ¹⁴³⁻¹⁵³ . Physical Review C, 2015, 92, .	2.9	13
44	Effects of one valence proton on seniority and angular momentum of neutrons in neutron-rich ^{122}Sb isotopes. Physical Review C, 2019, 99, .	2.9	13
45	Neutron single-particle strength in silicon isotopes: Constraining the driving forces of shell evolution. Physical Review C, 2015, 91, .	2.9	12
46	Mirrored one-nucleon knockout reactions to the ^{22}T nuclei. Physical Review C, 2016, 93, .	2.9	12
47	Lifetime measurements in the even-even ^{102}Cd isotopes. Physical Review C, 2021, 104, .	2.9	12
48	Lifetime measurements of ^{17}C excited states and three-body and continuum effects. Physical Review C, 2015, 92, .	2.9	10
49	Magnetic response of the halo nucleus ^{19}C studied via lifetime measurement. Physical Review C, 2015, 91, .	2.9	9
50	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
51	Structural changes at large angular momentum in neutron-rich ^{121}Cd . Physical Review C, 2021, 104, .	2.9	9
52	Measurement of lifetimes in ^{62}Fe and ^{64}Fe . Physical Review C, 2019, 99, .	2.9	9
53	Deformed band structures in neutron-rich ^{152}Pm isotopes. Physical Review C, 2018, 98, .	2.9	9
54	Spectroscopy of ^{28}Na : Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8

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55	Excitations of the magic ^{58}Ni with the recoil distance of ^{58}Ni with the recoil distance Excitations of the magic ^{58}Ni with the recoil distance Physical Review C, 2019, 100, .	2.9	8
56	neutron-core revealed in ^{81}Ga neutron-core revealed in ^{81}Ga Physical Review C, 2019, 100, .	2.9	8
57	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
58	Lifetime measurement of the 21^+ state in ^{74}Rb 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
59	New narrow resonances observed in the unbound nucleus ^{15}F New narrow resonances observed in the unbound nucleus ^{15}F Physical Review C, 2022, 105, .	2.9	7
60	Triplet energy differences and the low lying structure of ^{62}Ga Triplet energy differences and the low lying structure of ^{62}Ga Physical Review C, 2015, 92, .	2.9	6
61	Transfer-induced fission in inverse kinematics: Impact on experimental and evaluated nuclear data bases. European Physical Journal A, 2015, 51, 1.	2.5	6
62	Evidence of octupole-phonons at high spin in ^{207}Pb . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134797.	4.1	6
63	^{33}Si and the magicity of the ^{20}Ne gap at ^{33}Si ^{33}Si and the magicity of the ^{20}Ne gap at ^{33}Si Physical Review C, 2019, 100, .	2.9	6
64	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
65	Complete set of bound negative-parity states in the neutron-rich nucleus ^{18}N Complete set of bound negative-parity states in the neutron-rich nucleus ^{18}N Physical Review C, 2021, 104, .	2.9	6
66	Isotopic fission fragment distributions as a deep probe to fusion-fission dynamics. Journal of Physics: Conference Series, 2013, 420, 012119.	0.4	5
67	Lifetime measurements of the yrast ^{70}Ni Lifetime measurements of the yrast ^{70}Ni Physical Review C, 2018, 97, .	2.9	5
68	Generic features of the neutron-proton interaction. Physical Review C, 2018, 97, .	2.9	5
69	Lifetime measurements of excited states in neutron-rich ^{53}Ti Lifetime measurements of excited states in neutron-rich ^{53}Ti Benchmarking effective shell-model interactions. Physical Review C, 2020, 102, .	2.9	5
70	Minor actinide fission induced by multi-nucleon transfer reaction in inverse kinematics. EPJ Web of Conferences, 2010, 2, 07001.	0.3	4
71	Lifetime Measurements Using RDDS Method in the Vicinity of ^{78}Ni . Acta Physica Polonica B, 2019, 50, 633.	0.8	4
72	Evolution of isotopic fission-fragment yields with excitation energy. EPJ Web of Conferences, 2012, 31, 00025.	0.3	3

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73	Spectroscopy and lifetime measurements in Ge66, Se69, and Ga65 using fragmentation reactions. Physical Review C, 2015, 91, .	2.9	3
74	Prompt-delayed \hat{I}^3 -ray spectroscopy of neutron-rich In119,121 isotopes. Physical Review C, 2020, 102, .	2.9	3
75	High-spin states above the isomers in neutron-rich iodine nuclei near $N=82$. Physical Review C, 2020, 102, .	2.9	3
76	Evidence for enhanced neutron-proton correlations from the level structure of the $N=Z$ nucleus ^{44}Tc . Physical Review C, 2021, 104, .	2.9	3
77	HeCTOR: the ^3He 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
78	Study of Quadrupole Correlations in $N=Z=50$ Region via Lifetime Measurements. Acta Physica Polonica B, 2017, 48, 331.	0.8	3
79	Fusion of the most neutron-rich nucleus ^8He : Recent results from GANIL. EPJ Web of Conferences, 2011, 17, 01003.	0.3	2
80	Reinterpretation of excited states in ^{212}Po : Shell-model multiplets rather than \hat{I}^{\pm} -cluster states. Physical Review C, 2021, 104, .	2.9	2
81	Isotopic resolution of fission fragments from $^{238}\text{U} + ^{12}\text{C}$ transfer and fusion reactions. , 2009, , .		1
82	Dynamics of fragment capture for cluster structures of weakly bound ^7Li . EPJ Web of Conferences, 2013, 63, 02018.	0.3	1
83	Toward lifetime and g-factor measurements of short-lived states in the vicinity of ^{208}Pb . Physica Scripta, 2017, 92, 054004.	2.5	1
84	Preliminary results of lifetime measurements in neutron-rich ^{53}Ti . EPJ Web of Conferences, 2019, 223, 01022.	0.3	1
85	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
86	Isotopic Distributions of Fission Fragments from Transfer-induced Fission. Physics Procedia, 2013, 47, 125-130.	1.2	0
87	Complete isotopic distributions of fragments produced in transfer- and fusion-induced reactions. EPJ Web of Conferences, 2013, 62, 06006.	0.3	0
88	Probing Neutron Pair Transfer with Borromean Isotopes of Helium. , 2013, , 393-404.		0
89	Measurement of astrophysically important excitation energies of ^{58}Zn with GRETINA. EPJ Web of Conferences, 2014, 66, 07013.	0.3	0
90	Measurement of ^{19}Ne spectroscopic properties via a new method of inelastic scattering to study novae. Journal of Physics: Conference Series, 2018, 940, 012003.	0.4	0

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91	Study of High-Energy Fission in Inverse Kinematics. EPJ Web of Conferences, 2019, 223, 01037.	0.3	0
92	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
93	Determination of Lifetimes of Excited States in Neutron-rich ^{20}O Isotope from Experiment with the AGATA+PARIS+VAMOS Setup. Acta Physica Polonica B, 2019, 50, 615.	0.8	0