

Fred Sarazin

List of Publications by Year in descending order

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119
papers

3,765
citations

136950

32
h-index

133252

59
g-index

123
all docs

123
docs citations

123
times ranked

2656
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. <i>Science</i> , 2007, 318, 938-943.	12.6	647
2	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. <i>Science</i> , 2017, 357, 1266-1270.	12.6	261
3	Shape Coexistence and the $N=28$ Shell Closure Far from Stability. <i>Physical Review Letters</i> , 2000, 84, 5062-5065.	7.8	189
4	First Penning-Trap Mass Measurement of the Exotic Halo Nucleus ^{11}Li . <i>Physical Review Letters</i> , 2008, 101, 202501.	7.8	174
5	Detection of neutron clusters. <i>Physical Review C</i> , 2002, 65, .	2.9	114
6	An evaluation of the exposure in nadir observation of the JEM-EUSO mission. <i>Astroparticle Physics</i> , 2013, 44, 76-90.	4.3	102
7	Halo Structure of ^{14}Be . <i>Physical Review Letters</i> , 2001, 86, 600-603.	7.8	91
8	Two-neutron interferometry as a probe of the nuclear halo. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 476, 219-225.	4.1	90
9	Shape evolution in heavy sulfur isotopes and erosion of the $N=28$ shell closure. <i>Physical Review C</i> , 2002, 66, .	2.9	90
10	Three-body correlations in Borromean halo nuclei. <i>Physical Review C</i> , 2001, 64, .	2.9	77
11	Structure of states in ^{12}Be via the $^{11}\text{Be} + n$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 682, 391-395.	4.1	61
12	TIGRESS: TRIUMF-ISAC gamma-ray escape-suppressed spectrometer. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1663-S1668.	3.6	55
13	TIGRESS highly-segmented high-purity germanium clover detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 543, 431-440.	1.6	53
14	Scattering of the Halo Nucleus ^{11}Be on ^{11}B . <i>Physical Review Letters</i> , 2008, 101, 202501.	7.8	53
15	The POEMMA (Probe of Extreme Multi-Messenger Astrophysics) observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 007.	5.4	50
16	Radioactive beam experiments with large gamma-ray detector arrays. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 204, 660-665.	1.4	48
17	Search for particle-hole excitations across the $N=28$ shell gap in $^{45,46}\text{Ar}$ nuclei. <i>Nuclear Physics A</i> , 2003, 727, 195-206.	1.5	48
18	Probing shell structure in neutron-rich nuclei with in-beam ^3He -spectroscopy. <i>European Physical Journal A</i> , 2002, 15, 93-97.	2.5	46

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19	High precision measurements of ^{26}Na decay. Physical Review C, 2005, 71, .	2.9	45
20	The JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 19-44.	3.7	45
21	Measured and simulated performance of Compton-suppressed TIGRESS HPGe clover detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 437-445.	1.6	42
22	Structure of the neutron-rich ^{37}P and ^{43}Cl nuclei. European Physical Journal A, 2004, 22, 173-178.	2.5	41
23	Position sensitivity of the TIGRESS 32-fold segmented HPGe clover detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 348-360.	1.6	40
24	SHARC: Silicon Highly-segmented Array for Reactions and Coulex used in conjunction with the TIGRESS $\hat{\gamma}$ -ray spectrometer. Journal of Instrumentation, 2011, 6, P02005-P02005.	1.2	39
25	Halo neutrons and the $\hat{\gamma}$ -decay of ^{11}Li . Physical Review C, 2004, 70, .	2.9	38
26	$\hat{\gamma}$ -Delayed Deuteron Emission from ^{11}Li . Physical Review Letters, 2008, 101, 212501.	7.8	38
27	The JEM-EUSO mission: An introduction. Experimental Astronomy, 2015, 40, 3-17.	3.7	38
28	Strong resonances in elastic scattering of radioactive ^{21}Na protons. Physical Review C, 2002, 65, .	2.9	35
29	High-resolution $\hat{\gamma}$ -ray spectroscopy: a versatile tool for nuclear $\hat{\gamma}$ -decay studies at TRIUMF-ISAC. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1491-S1498.	3.6	35
30	Performance of the Versatile Array of Neutron Detectors at Low Energy (VANDLE). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 836, 122-133.	1.6	34
31	$\hat{\gamma}$ decay of ^{32}Na . Physical Review C, 2007, 75, .	2.9	33
32	$\hat{\gamma}$ rays emitted in the decay of ^{178}Hf . Physical Review C, 2003, 68, .	2.9	32
33	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	3.7	31
34	Multichannel R-matrix analysis of elastic and inelastic resonances in the $^{21}\text{Na} + p$ compound system. Physical Review C, 2005, 71, .	2.9	30
35	Study of ^{19}Na at SPIRAL. European Physical Journal A, 2005, 24, 237-247.	2.5	28
36	Pile-up corrections for high-precision superallowed decay half-life measurements via $\hat{\gamma}$ -ray photopeak counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 1005-1033.	1.6	27

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37	High-precision branching ratio measurement for the superallowed $^2+_{\text{emitter}}\text{Ga}62$. Physical Review C, 2008, 78, .	2.9	27
38	Narrowing of the neutron shell gap in ^{29}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 168-171.	4.1	27
39	JEM-EUSO: Meteor and nuclearite observations. Experimental Astronomy, 2015, 40, 253-279.	3.7	27
40	EUSO-TA " First results from a ground-based EUSO telescope. Astroparticle Physics, 2018, 102, 98-111.	4.3	27
41	Neutron cross-talk rejection in a modular array and the detection of halo neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 450, 109-118.	1.6	26
42	Reorientation-effect measurement of the $^{21}\text{F} + ^{21}\text{Ne}$ matrix element in ^{10}Be . Physical Review C, 2012, 86, .	2.9	26
43	Two-neutron transfer reaction mechanisms in $^{20}\text{Ne} + ^{20}\text{Ne}$		

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55	The TRIUMF nuclear structure program and TIGRESS. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 1084-1088.	1.4	20
56	A determination of the interaction potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 505, 15-20.	4.1	19
57	Coulomb excitation of radioactiveNa21and its stable mirrorNe21. Physical Review C, 2008, 78, .	2.9	19
58	Isospin symmetry in $B \rightarrow E$ values: Coulomb excitation study of Mg^{21} . Physical Review C, 2019, 99, .	2.9	19
59	Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations. Astroparticle Physics, 2019, 111, 54-71.	4.3	18
60	Ground-based tests of JEM-EUSO components at the Telescope Array site, "EUSO-TA". Experimental Astronomy, 2015, 40, 301-314.	3.7	16
61	JEM-EUSO observational technique and exposure. Experimental Astronomy, 2015, 40, 117-134.	3.7	16
62	Shell evolution approaching the N= 20 island of inversion: Structure of ^{26}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 417-423.	4.1	16
63	Precision half-life measurement of ^{62}Ga . Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1885-S1889.	3.6	15
64	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. Journal of Instrumentation, 2018, 13, P05023-P05023.	1.2	15
65	A Review of the EUSO-Balloon Pathfinder for the JEM-EUSO Program. Space Science Reviews, 2022, 218, 3.	8.1	15
66	Far From "Easy" Spectroscopy with the ^8B and GRIFFIN Spectrometers at TRIUMF-ISAC. Journal of Physics: Conference Series, 2015, 639, 012006.	0.4	14
67	Level structure of Mg^{21} : Nuclear and astrophysical implications. Physical Review C, 2006, 73, .	2.9	13
68	Coulomb excitation of the proton-dripline nucleus Na^{20} . Physical Review C, 2009, 80, .	2.9	13
69	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. European Physical Journal C, 2015, 75, 269.	3.9	12
70	Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO. Experimental Astronomy, 2015, 40, 315-326.	3.7	11
71	Optimization of Compton-suppression and summing schemes for the TIGRESS HPGe detector array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 157-160.	1.6	10
72	The JEM-EUSO observation in cloudy conditions. Experimental Astronomy, 2015, 40, 135-152.	3.7	10

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91	The Mass Programme at GANIL Using the CSS2 and CIME Cyclotrons. <i>Hyperfine Interactions</i> , 2001, 132, 273-279.	0.5	4
92	TRIUMF-ISAC Gamma-Ray Escape-Suppressed Spectrometer (TIGRESS): a versatile tool for radioactive beam physics. <i>Nuclear Physics A</i> , 2007, 787, 118-125.	1.5	4
93	Development of a Versatile Array of Neutron Detectors at Low Energy. , 2009, , .		4
94	A gas jet target for radioactive ion beam experiments. , 2013, , .		4
95	Results of $^{21}\text{Na}+p$ experiments at ISAC. <i>Nuclear Physics A</i> , 2003, 718, 119-126.	1.5	3
96	Excited states in ^{22}Mg via the $^{12}\text{C}(^{12}\text{C},2n)^{22}\text{Mg}$ reaction. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 945-947.	1.4	3
97	Coulomb excitation of radioactive ^{20}Ne , ^{21}Na . <i>European Physical Journal A</i> , 2009, 42, 477.	2.5	3
98	Ultra high energy photons and neutrinos with JEM-EUSO. <i>Experimental Astronomy</i> , 2015, 40, 215-233.	3.7	3
99	Geometrical constraints of observing very high energy Earth-skimming neutrinos from space. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 021-021.	5.4	3
100	Extreme Universe Space Observatory on a Super Pressure Balloon 1 calibration: from the laboratory to the desert. <i>Experimental Astronomy</i> , 2021, 52, 125-140.	3.7	3
101	Changes in neutron shell closures of light very neutron-rich nuclei. <i>European Physical Journal D</i> , 2001, 51, A245-A253.	0.4	1
102	Publisher's Note: Strong resonances in elastic scattering of radioactive ^{21}Ne on protons [Phys. Rev. C65, 042801 (2002)]. <i>Physical Review C</i> , 2002, 65, .	2.9	1
103	$(^3\text{He},p)$ as an alternative to resonant elastic scattering. <i>Nuclear Physics A</i> , 2003, 718, 556-557.	1.5	1
104	Gamma-Ray Spectroscopy at TRIUMF-ISAC. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
105	Charged-particle channels in the β^2 -decay of ^{11}Li . <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
106	Scattering of Halo Nuclei at Energies below and around the Coulomb Barrier. , 2015, , .		1
107	Scattering of halo nuclei on heavy targets at energies around the Coulomb barrier: The case of ^{11}Be on ^{197}Au . <i>EPI Web of Conferences</i> , 2017, 163, 00045.	0.3	1
108	Spectroscopic study of ^{47}Ca from the β^2 -decay of ^{47}K . <i>Physical Review</i>		

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109	Experimental study of the nature of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ excited states in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$		
110	First Results with TIGRESS and Accelerated Radioactive Ion Beams from ISAC: Coulomb Excitation of $^{20,21,29}\text{Na}$. , 2009, , .		0
111	Gamma-Ray Spectroscopy at TRIUMF-ISAC: the New Frontier of Radioactive Ion Beam Research. , 2009, , .		0
112	The Pierre Auger Research and Development Array (RDA) in southeastern Colorado â€“ R&D for a giant ground array. EPJ Web of Conferences, 2013, 53, 08017.	0.3	0
113	New Opportunities in Decay Spectroscopy with the GRIFFIN and DESCANT Arrays. Physics Procedia, 2015, 66, 465-470.	1.2	0
114	Investigating Single-Particle Structure in ^{26}Na Using the New SHARC Array. , 2015, , .		0
115	Shape Coexistence and the $N = 28$ Shell Closure Far from Stability. , 2001, , 147-152.		0
116	MEASUREMENT OF THE SPECTROSCOPIC QUADRUPOLE MOMENT FOR THE 2^{+}_{1} STATE IN ^{10}Be : TESTING AB INITIO CALCULATIONS. , 2013, , .		0
117	A GAS JET TARGET FOR RADIOACTIVE ION BEAM EXPERIMENTS. , 2013, , .		0
118	PERFORMANCE OF VANDLE MEASURING BETA-DELAYED NEUTRON SPECTRA OF FISSION FRAGMENTS. , 2013, , .		0
119	Auger at the Telescope Array: Recent Progress Toward a Direct Cross-Calibration of Surface-Detector Stations. , 2018, , .		0