

Ani Aprahamian

List of Publications by Year in descending order

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papers

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citations

279798

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89
all docs

89
docs citations

89
times ranked

1779
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of isotopically pure Mo targets for nuclear science measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166763.	1.6	3
2	Origin of the heaviest elements: The rapid neutron-capture process. Reviews of Modern Physics, 2021, 93, .	45.6	326
3	Lifetime measurements of excited states in O_{15} . Physical Review C, 2021, 103, .	2.9	5
4	Irradiation-Driven Restructuring of UO ₂ Thin Films: Amorphization and Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35153-35164.	8.0	10
5	Open Challenges to Nuclear Physics Resulting from the Neutron Star Merger. Nuclear Physics News, 2021, 31, 11-16.	0.4	1
6	Combustion in the ZrF ₄ -Mg-Si and ZrF ₄ -Al-Si systems for preparation of zirconium silicides. Combustion and Flame, 2021, 232, 111514.	5.2	3
7	Hyperstoichiometric Uranium Dioxides: Rapid Synthesis and Irradiation-Induced Structural Changes. Inorganic Chemistry, 2021, 60, 18938-18949.	4.0	11
8	Observation of isobaric analog states in Be_{19} using p_{19} thermodynamics and kinetics of solution combustion synthesis: Ni(NO ₃) ₂ ·xH ₂ O fuels systems. Combustion and Flame, 2020, 221, 110-119.	5.2	17
9	Irradiation-induced reactions at the CeO ₂ /SiO ₂ /Si interface. Journal of Chemical Physics, 2020, 152, 104704.	3.0	20
10	-delayed neutron emission studies of ^{137}I using ^{137}I -delayed-neutron studies of ^{137}I and ^{138}I .	2.9	4
11	^{137}I -delayed-neutron studies of ^{137}I and ^{138}I .	2.9	4
12	Mechanisms of mechanochemical synthesis of cesium lead halides: pathways toward stabilization of $\hat{I}\pm$ -CsPbI ₃ . Journal of Materials Science, 2020, 55, 8665-8678.	3.7	14
13	$\hat{I}\pm$ -process nucleosynthesis: connecting rare-isotope beam facilities with the cosmos. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 083001.	3.6	115
14	Properties of low-lying states in Co_{65} from lifetime measurements. Physical Review C, 2019, 99, .	2.9	3
15	The use of cosmic-ray muons in the energy calibration of the Beta-decay Paul Trap silicon-detector array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 887, 122-127.	1.6	5
16	^{134}Sb decay of ^{134}Sb contained in a Paul trap.	2.9	8
17	^{134}Sb decay of ^{134}Sb and their isomeric yield ratio produced by the spontaneous fission of ^{252}Cf .	2.9	7
18			

#	ARTICLE	IF	CITATIONS
19	New insights into triaxiality and shape coexistence from odd-mass Rh109. Physical Review C, 2018, 98, .	2.9	3
20	Lifetime measurements in ^{156}Gd . Physical Review C, 2018, 98, .	2.9	12
21	Precision Mass Measurements on Neutron-Rich Rare-Earth Isotopes at JYFLTRAP: Reduced Neutron Pairing and Implications for r -Process Calculations. Physical Review Letters, 2018, 120, 262701.	7.8	46
22	Precision Mass Measurements of Neutron-Rich Neodymium and Samarium Isotopes and Their Role in Understanding Rare-Earth Peak Formation. Physical Review Letters, 2018, 120, 262702.	7.8	55
23	Recoil-ion detection efficiency for complex \hat{I}^2 decays studied using the Beta-decay Paul Trap. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 60-66.	1.6	4
24	Lifetime measurements in ^{162}Dy . Physical Review C, 2017, 95, .	2.9	5
25	^{166}Ni states in ^{166}Ni from lifetime measurements. Physical Review C, 2017, 95, .	2.9	19
26	Lifetime measurements of low-spin negative-parity levels in ^{160}Gd . Physical Review C, 2017, 95, .	2.9	4
27	Phase-imaging Mass Measurements with the Canadian Penning Trap Mass Spectrometer. , 2017, , .		2
28	Probing the Low-Energy Structure of $A = 109$ Ru $\hat{\epsilon}$ Pd. , 2017, , .		0
29	Measurements of conversion electrons in the s-process branching point nucleus ^{176}Lu . European Physical Journal A, 2016, 52, 1.	2.5	7
30	$^{16}\text{Be} + ^{8}\text{Be}$ and $^{12}\text{C} + ^{16}\text{O}$ breakup states in ^{16}O populated via the $^{13}\text{C}(\text{He}4, ^{16}\text{O})$ reaction. Physical Review C, 2016, 94, .	2.9	20
31	Evidence for a 3.8 MeV state in ^{9}Be . Physical Review C, 2016, 94, .	2.9	2
32	Shell structure from nuclear observables. Physical Review C, 2016, 93, .	2.9	6
33	Multiscale X-ray fluorescence mapping complemented by Raman spectroscopy for pigment analysis of a 15th century Breton manuscript. Analytical Methods, 2016, 8, 7696-7701.	2.7	7
34	The impact of individual nuclear properties on r -process nucleosynthesis. Progress in Particle and Nuclear Physics, 2016, 86, 86-126.	14.4	333
35	Collectivity of 0^+ states in ^{160}Gd . Physical Review C, 2015, 91, .	2.9	6
36	Scintillation efficiency measurement of Na recoils in NaI(Tl) below the DAMA/LIBRA energy threshold. Physical Review C, 2015, 92, .	2.9	34

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37	Impact of individual nuclear masses on r -process abundances. Physical Review C, 2015, 92, . New lifetime measurements in r -process	2.9	71
38	Pd and the onset of deformation at $N=109$ and the onset of $N=60$ Physical Review C, 2015, 92, .	2.9	5
39	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
40	Irradiation-Enhanced Reactivity of Multilayer Al/Ni Nanomaterials. ACS Applied Materials & Interfaces, 2015, 7, 11272-11279.	8.0	33
41	The Sensitivity of \hat{I}^3 -Process Nucleosynthesis to Individual \hat{I}^2 -Delayed Neutron Emission Probabilities. , 2015, , .		4
42	Fast-Timing Study in the $78Ni$ Region: \hat{I}^2 -Decay of $81Zn$. , 2015, , .		2
43	Status Update on the \hat{I}^2 - $\hat{I}^{1/2}$ Correlation Measurement in the \hat{I}^2 Decay of ^{88}B . , 2015, , . Determining the r -Process Flow through Ni		0
44	Ni and R Sensitivity studies for the main r -process: \hat{I}^2 -decay rates. AIP Advances, 2014, 4, .		32
45	Sensitivity studies for the main r -process: nuclear masses. AIP Advances, 2014, 4, .	1.3	31
46	Sensitivity studies for the main r -process: nuclear masses. AIP Advances, 2014, 4, .	1.3	21
47	\hat{I}^2 decay of Mn to Fe . Physical	2.9	16
48	Investigation of the 4- \hat{I}^2 linear chain state in ^{65}Mn to ^{60}O . Physical Review C, 2013, 88, .	2.9	31
49	THE SENSITIVITY OF r -PROCESS NUCLEOSYNTHESIS TO THE PROPERTIES OF NEUTRON-RICH NUCLEI. , 2013, , .		2
50	R-PROCESS MASS SENSITIVITIES. , 2013, , .		1
51	Sensitivities of the r -process to nuclear structure. , 2012, , .		0
52	\hat{I}^2 decay of nuclei around $N=90$ Se: Search for signatures of a $N=56$ subshell	2.9	57
53	Sensitivity of the r -process to nuclear masses. European Physical Journal A, 2012, 48, 1.	2.5	39
54	Evidence for a new C state at 13.3ÅMeV . Physical Review C, 2011, 83, .	2.9	102

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55	http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> \hat{I}^2 </mml:mi></mml:mrow></mml:math>-delayed neutron emission for neutron-rich Co ⁶⁶ Cu isotopes in the http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> r </mml:mi></mml:mrow></mml:math>-process. Physical Review Letters, 2009, 102, 112501.	2.9	85
56	http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> \hat{I}^2 </mml:mi></mml:mrow></mml:math>-delayed neutron emission probabilities of nuclei in the region http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> A </mml:mi><mml:mo> \hat{A}^2 </mml:mo><mml:mn>110</mml:mn></mml:mrow></mml:math>, relevant for the r process. Physical Review C, 2009, 79, 044607.	2.9	116
57	http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> T </mml:mi><mml:mo>= C </mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:math> in http://www.w3.org/1998/Math/MathML display="inline"><mml:mrow><mml:mi> A </mml:mi><mml:mo> \hat{A}^2 </mml:mo><mml:mn>110</mml:mn></mml:mrow></mml:math>, Physical Review C, 2008, 78, 044607.	2.9	4
58	Lowest excited states of ¹³ O. Physical Review C, 2007, 75, .	2.9	20
59	Measurement of conversion electrons with the ²⁰⁸ Pb(^{p,n}) ²⁰⁸ Bi reaction and derivation of the shell model proton neutron hole interaction from the properties of ²⁰⁸ Bi. Physical Review C, 2007, 76, .	2.9	11
60	Nuclear isomers: structures and applications. AIP Conference Proceedings, 2006, , .	0.4	1
61	Doppler shift as a tool for studies of resonant (p,n) reactions with RIBs: Spectroscopy of ⁷ He. AIP Conference Proceedings, 2006, , .	0.4	0
62	Investigation of the ¹⁹ Na nucleus via resonance elastic scattering. Physics of Atomic Nuclei, 2006, 69, 1979-1984.	0.4	4
63	\hat{I}^2 -decay half-lives and \hat{I}^2 -delayed neutron emission probabilities for neutron rich nuclei close to the ^{N=82} r-process path. Physical Review C, 2006, 73, .	2.9	62
64	Isomers in neutron-rich ^A \hat{A}^2 190 nuclides from ²⁰⁸ Pb fragmentation. European Physical Journal A, 2005, 23, 201-215.	2.5	94
65	Isobaric analog states of neutron-rich nuclei. Doppler shift as a measurement tool for resonance excitation functions. European Physical Journal A, 2005, 25, 259-260.	2.5	0
66	The half-life of the doubly-magic r-process nucleus ⁷⁸ Ni. European Physical Journal A, 2005, 25, 639-642.	2.5	3
67	Systematics in the structure of low-lying, non-yrast band-head configurations of strongly deformed nuclei. European Physical Journal A, 2005, 25, 451-452.	2.5	1
68	Structure of neutron-rich even-even ¹²⁴ , ¹²⁶ Cd. European Physical Journal A, 2005, 25, 117-118.	2.5	18
69	Long live isomer research. Nature Physics, 2005, 1, 81-82.	16.7	63
70	Half-Life of the Doubly Magic r-Process Nucleus ⁷⁸ Ni. Physical Review Letters, 2005, 94, 112501.	7.8	147
71	Analog States of ⁷ He Observed via the ⁶ He(^{p,n}) Reaction. Physical Review Letters, 2004, 92, 232502.	7.8	41
72	Nuclear Astrophysics and Nuclear Structure. AIP Conference Proceedings, 2004, , .	0.4	0

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73	The nature of low-lying $K \pi = 0^+$ bands in nuclei. Physics of Atomic Nuclei, 2004, 67, 1750-1755.	0.4	5
74	$\hat{\pi}^2$ -DECAY STUDIES OF NEUTRON RICH NICKEL ISOTOPES. , 2004, , .		0
75	Nature of excited 0^+ states in Gd^{158} described by the projected shell model. Physical Review C, 2003, 68, .	2.9	31
76	Rotational and vibrational excitations in ^{84}Zr studied through in-beam and $^{84}Nb \hat{\pi}^2$ -decay spectroscopy. Physical Review C, 2003, 67, .	2.9	17
77	Mass measurement of ^{80}Y by $\hat{\pi}^2$ - $\hat{\pi}^3$ coincidence spectroscopy. Physical Review C, 2003, 67, .	2.9	8
78	NUCLEAR STRUCTURE AND NUCLEAR ASTROPHYSICS. , 2003, , .		0
79	What is the nature of $K \pi = 0^+$ bands in deformed nuclei?. AIP Conference Proceedings, 2002, , .	0.4	1
80	In-band and inter-band $B(E2)$ values within the Triaxial Projected Shell Model. European Physical Journal A, 2002, 15, 455-458.	2.5	20
81	From Exploding Stars to the Laboratory: Nucleosynthesis in the rp-Process. Hyperfine Interactions, 2001, 132, 413-420.	0.5	1
82	Half-Life Measurement for therp-Process Waiting Point Nuclide $Z=80$. Physical Review Letters, 2000, 84, 2104-2107.	7.8	24
83	Low-spin states from decay studies in the mass 80 region. Journal of Research of the National Institute of Standards and Technology, 2000, 105, 43.	1.2	21
84	Lifetime measurements in ^{178}Hf . Journal of Research of the National Institute of Standards and Technology, 2000, 105, 125.	1.2	7
85	Shape changes induced by quasiparticle alignment. , 1999, , .		0
86	Radioactive decay of ^{80}Y and low-lying states in ^{80}Sr . Physical Review C, 1999, 59, 59-70.	2.9	12
87	Lifetimes of states in the opposite-parity bands of ^{153}Eu : Recoil-distance measurements following Coulomb excitation. Physical Review C, 1998, 58, 3171-3180.	2.9	8
88	New isomer in ^{80}Y . Physical Review C, 1998, 57, 1159-1166.	2.9	18
89	Band crossing phenomena in $N=Z$ nuclei a probe to $T=0$ pairing correlations?. Acta Physica Hungarica A Heavy Ion Physics, 1997, 6, 269-273.	0.4	1