

# Georgios Perdikakis

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

2,034  
citations

257450

24  
h-index

276875

41  
g-index

114  
all docs

114  
docs citations

114  
times ranked

1714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Total absorption spectroscopy measurement on neutron-rich $^{74,75}\text{Cu}$ isotopes. Nuclear Physics A, 2022, 1018, 122359.	1.5	0
2	SECAR: A recoil separator for nuclear astrophysics. EPJ Web of Conferences, 2022, 260, 11044.	0.3	2
3	Direct measurement of $^{29}\text{Mg}$ via direct reactions. Physical Review C, 2020, 102, .	2.9	2
4	A technique for the study of (p,n) reactions with unstable isotopes at energies relevant to astrophysics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164603.	1.6	5
5	The impact of $(n, \hat{p})$ reaction rate uncertainties of unstable isotopes on the $i$ -process nucleosynthesis of the elements from Ba to W. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3913-3925.	4.4	10
6	$\beta$ -decay feeding intensity distributions of $^{71}\text{Ni}$ and $^{73}\text{Ni}$ . Physical Review C, 2021, 103, .	2.9	2
7	Reduction of the neutron imaginary potential off the stability line and its possible impact on neutron capture rates. Physical Review C, 2021, 104, .	2.9	3
8	Coexisting normal and intruder configurations in $^{32}\text{Mg}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136682.	4.1	6
9	Structure of $^{30}\text{Mg}$ explored via in-beam spectroscopy. Physical Review C, 2020, 102, .	2.9	4
10	The impact of $(n, \hat{p})$ reaction rate uncertainties on the predicted abundances of $i$ -process elements with $32 \leq Z \leq 48$ in the metal-poor star HD94028. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5179-5187.	4.4	8
11	Constraining the destruction rate of $^{40}\text{K}$ in stellar nucleosynthesis through the study of the $^{40}\text{K}$ . Physical Review C, 2019, 100, .	2.9	6
12	Benchmarking the extraction of statistical neutron capture cross sections on short-lived nuclei for applications using the $^{12}\text{Os}$ -Oslo method. Physical Review C, 2019, 100, .	2.9	5
13	Single-particle shell strengths near the doubly magic nucleus $^{56}\text{Ni}$ and the $^{56}\text{Ni}(p, \hat{p})^{57}\text{Cu}$ reaction rate in explosive astrophysical burning. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134803.	4.1	11
14	Constraining the Neutron Star Compactness: Extraction of the $^{14}\text{O}$ . Physical Review Letters, 2021, 126, 112501.	2.9	14
15	Constraining the Neutron Star Compactness: Extraction of the $^{23}\text{Al}$ . Physical Review Letters, 2021, 126, 112501.	2.9	14
16			

#	ARTICLE	IF	CITATIONS
19	Experimental constraints on the $^{73}\text{Zn}$ reaction rate. <i>Physical Review C</i> , 2019, 100, 044602.	2.9	6
20	Cross section measurements of proton capture reactions on Se isotopes relevant to the astrophysical $p$ -process. <i>Physical Review C</i> , 2018, 97, 044602.	2.9	5
21	Design of SECAR a recoil mass separator for astrophysical capture reactions with radioactive beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 877, 87-103.	3.6	23
22	Enhanced low-energy $^{70}\text{Ni}$ strength of $^{70}\text{Ni}$ and its robustness within the shell model. <i>Physical Review C</i> , 2018, 97, 044602.	2.9	28
23	Neutron-capture rates for explosive nucleosynthesis: the case of $^{68}\text{Ni}$ , $^{70}\text{Ni}$ , $^{73}\text{Ni}$ and $^{69}\text{Ni}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 044002.	3.6	19
24	Isovector excitations in $^{100}\text{Nb}$ and their decays by neutron emission studied via the $^{100}\text{Mo}(t, \text{He}^3+n)$ reaction at 115 MeV/u. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 769, 339-344.	4.1	6
25	Resonance states for the $^{70}\text{Ni}$ reaction rate. <i>Physical Review C</i> , 2018, 97, 044602.		
26	Resonance states for the $^{70}\text{Ni}$ reaction rate. <i>Physical Review C</i> , 2018, 97, 044602.		
27	Resonance states for the $^{70}\text{Ni}$ reaction rate. <i>Physical Review C</i> , 2018, 97, 044602.		

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37	Measurement of the equilibrium charge state distributions of Ni, Co, and Cu beams in Mo at 2 MeV/u: Review and evaluation of the relevant semi-empirical models. Nuclear Instruments & Methods in Physics Research B, 2016, 373, 117-125.	1.4	3
38	Investigation of ion induced damage in KBr, YAG:Ce, CaF2:Eu and CsI:Tl irradiated by various-energy protons. Journal of Instrumentation, 2015, 10, P03024-P03024. High-resolution study of Gamow-Teller excitations in the $^{37}\text{Ti}$	1.2	6
39	Gamow-Teller transitions to $^{37}\text{Ti}$	2.9	37
40	via the $^{45}\text{Ca}$	2.9	13
41	Spectroscopy of $^{45}\text{Sc}$ : Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8
42	Measurement of astrophysically important excitation energies of $^{58}\text{Zn}$ with GREINA. EPJ Web of Conferences, 2014, 66, 07013. Gamow-Teller transition strengths from $^{56}\text{Fe}$	0.3	0
43	Novel technique for constraining $^{56}\text{Fe}$	2.9	7
44	$^{56}\text{Fe}$ -Process (Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 477 Td)	7.8	111
45	Observation of Low- and High-Energy Gamow-Teller Phonon Excitations in Nuclei. Physical Review Letters, 2014, 112, 112502. Determining the $^{56}\text{Fe}$ -Process Flow	7.8	63
46	through $^{56}\text{Ni}$	7.8	32
47	Gamow-Teller transitions in the $A=40$ isoquintet of relevance for neutrino captures in $^{40}\text{Ar}$ . Physical Review C, 2014, 89, .	2.9	12
48	Transition Strengths from $^{46}\text{Ti}$	7.8	25
49	Determination and theoretical analysis of the differential cross sections of the $^2\text{H}(d,p)$ reaction at energies and detection angles suitable for NRA (Nuclear Reaction Analysis). EPJ Web of Conferences, 2014, 66, 10009.	0.3	0
50	Commissioning results of the ReA EBIT charge breeder at the NSCL: First reacceleration of stable-isotope beams. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 399-401.	1.4	7
51	The ReA electron-beam ion trap charge breeder for reacceleration of rare isotopes. AIP Conference Proceedings, 2013, , . High-resolution study of $^{46}\text{Ti}$ transitions in the $^{46}\text{Ti}$	0.4	6
52	transitions in the $^{46}\text{Ti}$		

#	ARTICLE	IF	CITATIONS
55	Scintillation degradation of YAG: Ce under low-energy ion bombardment. Journal of Instrumentation, 2013, 8, P01001-P01001.	1.2	4
56	Primary $\beta$ -ray spectra in $^{44}\text{Ti}$ of astrophysical interest. Physical Review C, 2012, 85, . Extraction of Gamow-Teller strength distributions from $\langle \text{mml:math}$	2.9	14
57	$\langle \text{mml:math}$ $^{56}\text{Ni}$ and $\langle \text{mml:math}$ $^{55}\text{Co}$ via the $\langle \text{mml:math}$		

#	ARTICLE	IF	CITATIONS
73	Level Densities and $\hat{I}^3$ Strength Functions in Light Sc and Ti Isotopes. EPJ Web of Conferences, 2010, 2, 03003. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Au</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>197</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math>Tj ETQq0 0 0 rgBT /OVerlock 10	0.3	0
74		2.8	55
75	$\hat{I}^2$ and Isomeric Decay of Nuclei in the [sup 100]Sn Region. , 2010, , . <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi> $\hat{I}^2$ </mml:mi></mml:mrow></mml:math>-decay half-life of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>r</mml:mi><mml:mi>p</mml:mi></mml:mrow></mml:math>-process waiting-point nuclide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>via the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts		0
76		2.9	18
77		2.9	20
78	Extraction of thermal and electromagnetic properties in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ti</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>45</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2009, 80, .	2.9	24
79	LENDAs: A Low Energy Neutron Detector Array for Studies of $(p,n)$ Reactions With Radioactive Beams. IEEE Transactions on Nuclear Science, 2009, 56, 1174-1178. Production and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi> $\hat{I}^2$ </mml:mi></mml:math>Decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi><mml:mi>p</mml:mi></mml:math>-Process Nuclei<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn	2.0	10
80		7.8	52
81	Activation cross section and isomeric cross-section ratio for the $(n,2n)$ reaction on Ir191. Physical Review C, 2007, 75, .	2.9	20
82	Aspects of GEANT4 Monte-Carlo calculations of the BC501A neutron detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 351-355.	1.6	15
83	Experimental and theoretical studies of $(n,p)$ reactions on Ge isotopes. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 969-973.	1.4	7
84	Study of the $(n,2n)$ cross section of the $^{174}\text{Hf}$ isotope. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 941-944.	1.4	2
85	$^6\text{Li}+^{28}\text{Si}$ total reaction cross sections at near barrier energies. Nuclear Physics A, 2007, 784, 13-24.	1.5	20
86	Neutron induced reactions at the Athens Tandem Accelerator NCSR "Demokritos". Journal of Radioanalytical and Nuclear Chemistry, 2007, 272, 219-222.	1.5	13
87	Study of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ reaction cross section in the energy range of $E_n = 8.8\text{--}11.1$ MeV. Journal of Radioanalytical and Nuclear Chemistry, 2007, 272, 223-226.	1.5	1
88	Isomeric cross sections of neutron induced reactions on Ge and Ir isotopes. , 2007, , .		0
89	Studies on the response of $^3\text{He}$ and $^4\text{He}$ proportional counters to monoenergetic fast neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 371-379.	1.6	9
90	The $^6\text{Li}$ exclusive breakup on $^{28}\text{Si}$ at 13 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 691-695.	4.1	48

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91	Neutron induced reactions at the Athens Tandem Accelerator of NCSR "Demokritos". AIP Conference Proceedings, 2006, , .	0.4	0
92	Neutron activation measurements on natural Ge and Hf. AIP Conference Proceedings, 2006, , .	0.4	0
93	Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section, by the activation method. AIP Conference Proceedings, 2006, , .	0.4	0
94	Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section using the activation method. Physical Review C, 2006, 73, .	2.9	10
95	On the radiation damage effects in semiconductors beyond the end of range of implanted protons at high energies and fluences. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 168-173.	1.4	1
96	Application of ion beam analysis to the characterization of protective coatings prepared by plasma detonation techniques on steel samples. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 371-375.	1.4	1
97	Reaction channels of $^6\text{Li}+^{28}\text{Si}$ at near-barrier energies. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1723-S1727.	3.6	6
98	Measurements at $n_{\text{TOF}}$ of the Neutron Capture Cross Section of Minor Actinides Relevant to the Nuclear Waste Transmutation. AIP Conference Proceedings, 2005, , .	0.4	3
99	$\alpha$ -particle production: Direct and compound contribution in the reaction $^7\text{Li}+^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2005, 71, .	2.9	25
100	Proton and alpha-particle capture reactions at sub-Coulomb energies relevant to the p process. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1417-S1420.	3.6	13
101	Elastic scattering of $^7\text{Li}+^{28}\text{Si}$ at near-barrier energies. Physical Review C, 2004, 69, .	2.9	101
102	The Neutron Facility at NCSR "Demokritos" Implementation in the Case of the $^{232}\text{Th}(n, 2n)$ Reaction. AIP Conference Proceedings, 2004, , .	0.4	5
103	A study of the dechanneling of protons in SiC polytype crystals in the energy range $E_p=400\text{--}650$ keV. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 226-231.	1.4	2
104	On the determination of beryllium in light element matrices using PIGE and NRA. Nuclear Instruments & Methods in Physics Research B, 2004, 226, 622-630.	1.4	2
105	Measurement of the monitored drift tubes response to energetic neutrons. IEEE Transactions on Nuclear Science, 2004, 51, 2448-2452.	2.0	3
106	On the dechanneling of protons in Si [110]. European Physical Journal B, 2003, 34, 257-263.	1.5	13
107	Study of Antibacterial Composite Cu/SiO <sub>2</sub> Thin Coatings. Journal of Sol-Gel Science and Technology, 2003, 26, 1213-1218.	2.4	66
108	Investigation of deep implanted fluorine channeling profiles in silicon using resonant NRA. Nuclear Instruments & Methods in Physics Research B, 2003, 201, 623-629.	1.4	7

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109	Neutron cross-section measurements in the Th <sup>232</sup> U cycle by the activation method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 505, 381-384.	1.6	19
110	The elastic scattering of <sup>6</sup> Li+ <sup>28</sup> Si at near-barrier energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 556, 21-26.	4.1	86
111	Correlation between channeling parameters and nitrogen doping concentration in n-type SiC polytype crystals studied by CW- and pulsed-EPR. Nuclear Instruments & Methods in Physics Research B, 2002, 195, 414-421.	1.4	0
112	Measurement of the monitored drift tubes response to energetic neutrons. , 0, , .		0
113	Investigation of the ATLAS MDT Chambers Response to Fast Neutron Background Radiation. , 0, , .		0