

# Stanislav Antalic

## List of Publications by Year in descending order

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134  
papers

3,741  
citations

147801

31  
h-index

138484

58  
g-index

137  
all docs

137  
docs citations

137  
times ranked

1190  
citing authors

#	ARTICLE	IF	CITATIONS
1	Producing gold at ISOLDE-CERN. Nuclear Instruments & Methods in Physics Research B, 2022, 513, 26-32.	1.4	0
2	Alpha-gamma decay studies of $^{247}\text{Md}$ . European Physical Journal A, 2022, 58, 1.	2.5	4
3	The SFINx Detector System. Physics of Particles and Nuclei Letters, 2022, 19, 37-45.	0.4	3
4	Study of the production and decay properties of neutron-deficient nobelium isotopes. European Physical Journal A, 2022, 58, 1.	2.5	6
5	First observation of a shape isomer and a low-lying strongly-coupled prolate band in neutron-deficient semi-magic $^{187}\text{Pb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137129.	4.1	3
6	Decay studies of new isomeric states in $^{255}\text{Lr}$ . Physical Review C, 2022, 106, Identification of sub- $^{255}\text{Lr}$ .	2.9	2
7	Identification of sub- $^{255}\text{Lr}$ isomeric states in the odd-odd nucleus $^{255}\text{Lr}$ . Physical Review C, 2021, 103, .	2.9	3
8	The New $^{249}\text{No}$ Isotope. Physics of Particles and Nuclei Letters, 2021, 18, 445-448.	0.4	6
9	Comparative Study of Spontaneous-Fission Characteristics of $^{252}\text{No}$ and $^{254}\text{No}$ Isotopes. Physics of Particles and Nuclei Letters, 2021, 18, 449-456.	0.4	3
10	Laser-assisted nuclear decay spectroscopy of $^{255}\text{Lr}$ . Physical Review C, 2021, 104, .	2.9	7
11	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
12	New $\hat{I}^2$ -decaying state in $^{214}\text{Bi}$ . Physical Review C, 2021, 104, .	2.9	1
13	Velocity filter SHELS: Performance and experimental results. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 219-220.	1.4	1
14	Laser-assisted decay spectroscopy for the ground states of $^{180}\text{Au}$ and $^{182}\text{Au}$ . Physical Review C, 2020, 102, .	2.9	10
15	$\hat{I}^2$ -delayed fission of isomers in $^{188}\text{Bi}$ . Physical Review C, 2020, 102, .	2.9	7
16	Spectroscopy of the Isotopes of Transfermium Elements in Dubna: Current Status and Prospects. Physics of Atomic Nuclei, 2020, 83, 503-512.	0.4	0
17	Laser-assisted decay spectroscopy and mass spectrometry of $^{178}\text{Au}$ . Physical Review C, 2020, 102, .	2.9	8
18	Decay studies of the long-lived states in $^{186}\text{Tl}$ . Physical Review C, 2020, 102, .	2.9	3

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19	isomerism in $^{255}\text{Rf}$ and total kinetic energy measurements for spontaneous fission of $^{255}\text{Rf}$ . Physical Review C, 2020, 101, .	2.9	11
20	Hyperfine anomaly in gold and magnetic moments of $^{256}\text{Au}$ gold isomers. Physical Review C, 2020, 101, .	2.9	24
21	$^{256}\text{Au}$ -decay branching ratio of $^{256}\text{Au}$ . Physical Review C, 2020, 101, .	2.9	2
22	Isomeric States in $^{255}\text{Rf}$ , $^{256}\text{Rf}$ and $^{257}\text{Rf}$ . Acta Physica Polonica B, 2020, 51, 849.	0.8	2
23	Identification of a $6.6\hat{1}/4\text{s}$ isomeric state in $\text{Ir}175$ . Physical Review C, 2019, 99, .	2.9	2
24	$^{200}\text{Fr}$ -decay properties of $^{200}\text{Fr}$ . Physical Review C, 2019, 100, .	2.9	10
25	Fine structure in the $\hat{1}\pm$ decay of $\text{At}218$ . Physical Review C, 2019, 99, .	2.9	5
26	The $48\text{Ca}+181\text{Ta}$ reaction: Cross section studies and investigation of neutron-deficient $86 \hat{\%} Z \hat{\%} 93$ isotopes. Nuclear Physics A, 2019, 987, 337-349.	1.5	14
27	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in $\text{At}217,218,219$ revealed by in-source laser spectroscopy. Physical Review C, 2019, 99, .	2.9	13
28	Alpha-gamma decay studies of $258\text{Db}$ and its (grand)daughter nuclei $254\text{Lr}$ and $250\text{Md}$ . European Physical Journal A, 2019, 55, 1.	2.5	6
29	Spontaneous fission of rutherfordium isotopes - total kinetic energies. EPJ Web of Conferences, 2019, 223, 01043.	0.3	0
30	Prompt Neutrons from Spontaneous $254\text{Rf}$ Fission. Physics of Particles and Nuclei Letters, 2019, 16, 768-771.	0.4	4
31	COMPASSâ€”A COMPAct decay spectroscopy set-up. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 907, 81-89.	1.6	3
32	Change in structure between the $\hat{1}\pm$ states in $181\text{Tl}$ and $177,179\text{Au}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 355-363.	4.1	22
33	Charge radii and electromagnetic moments of $^{219}\text{At}$ . Physical Review C, 2018, 97, .	2.9	35
34	Total Kinetic Energy Measurements for Spontaneous Fission of $^{255,256,258}\text{Rf}$ . Acta Physica Polonica B, 2018, 49, 605.	0.8	2
35	Decay Spectroscopy of Heavy Isotopes at SHIP Using the COMPASS Focal Plane Detection Set-up. Acta Physica Polonica B, 2018, 49, 613.	0.8	4
36	Shape coexistence studied in $^{182,184}\text{Hg}$ via the $\hat{1}^2$ decay of $^{182,184}\text{Tl}$ . Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 074001.	3.6	13

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37	Detailed $\alpha$ -decay study of $^{230}\text{Th}$ . <i>Physical Review C</i> , 2017, 96, .	2.9	4
38	$\alpha$ -delayed fission of $^{230}\text{Th}$ . <i>Physical Review C</i> , 2017, 96, .	2.9	7
39	Fission Barriers of Super-Heavy Nuclei and Search for Element 120. , 2017, , .		2
40	Remarks on the fission barriers of super-heavy nuclei. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	25
41	Alpha- and EC-decay measurements of $^{257}\text{Rf}$ . <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	14
42	$\alpha$ -delayed fission and $\alpha$ -decay of $^{257}\text{Rf}$ . <i>Physical Review C</i> , 2017, 96, .	2.9	10
43	Investigation of electron capture decay of $^{258}\text{Db}$ and $\alpha$ decay of $^{258}\text{Rf}$ . <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	25
44	Short-lived isomers in $^{192}\text{Po}$ and $^{192}\text{At}$ . <i>Physical Review C</i> , 2016, 93, .	2.9	4
45	Review of even element super-heavy nuclei and search for element 120. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	182
46	Experimental study of the $^{66}\text{Ni}(d,p)^{67}\text{Ni}$ one-neutron transfer reaction. <i>Physical Review C</i> , 2015, 91, .	2.9	9
47	Levels in $^{223}\text{Th}$ populated by $\alpha$ -decay of $^{227}\text{U}$ . <i>Physical Review C</i> , 2015, 92, .	2.9	11
48	In-Source Laser Spectroscopy with the Laser Ion Source and Trap: First Direct Study of the Ground-State Properties of $^{217}\text{Po}$ . <i>Physical Review X</i> , 2015, 5, .	8.9	18
49	Nuclear structure studies in the seaborgium region at SHIP. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
50	Spin distribution measurement for $^{64}\text{Ni} + ^{100}\text{Mo}$ at near and above barrier energies. <i>EPJ Web of Conferences</i> , 2015, 86, 00053.	0.3	2
51	Empirical description of $\alpha$ -delayed fission partial half-lives. <i>Physical Review C</i> , 2015, 91, .	2.9	14
52	Nuclear isomers in $^{259}\text{Sg}$ and $^{255}\text{Rf}$ . <i>European Physical Journal A</i> , 2015, 51, 1.	2.5	18
53	Study of the deformation-driving $d_{5/2}$ orbital in $^{67}\text{Ni}$ using one-neutron transfer reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 736, 533-538.	4.1	16
54	Electromagnetic moments of odd- $Z$ $^{193}\text{Po}$ and $^{203}\text{Po}$ . <i>Physical Review C</i> , 2014, 89, .	2.9	51

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55	Decay of $^{201}\text{Po}$ isotopes. Physical Review C, 2014, 89, .	2.9	22
56	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. Physical Review C, 2014, 90, .	2.9	39
57	$\hat{I}_{\pm}$ decay of $\text{Au}176$ . Physical Review C, 2014, 90, .	2.9	8
58	Study of heavy-ion induced fission for heavy-element synthesis. EPJ Web of Conferences, 2014, 66, 03065.	0.3	3
59	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. Nature Communications, 2013, 4, 1835.	12.8	89
60	Charge radii of odd-A $^{191}\text{Po}$ isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	4.1	64
61	New developments of the in-source spectroscopy method at RILIS/ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 550-556.	1.4	47
62	$\hat{I}_{\pm}$ decay spectroscopy of the chain $^{179}\text{Tl}$ isotopes. Physical Review C, 2013, 88, .	2.9	13
63	Nuclear Structure of Heavy $^{153}\text{N}$ Isotones. Acta Physica Polonica B, 2013, 44, 387.	0.8	1
64	$\hat{I}_{\pm}^2$ -delayed fission and $\hat{I}_{\pm}$ decay of $^{178}\text{Po}$ isotopes. Physical Review C, 2013, 88, .	2.9	24
65	Signatures of the $\hat{I}_{\pm}$ decay of the $^{178}\text{Po}$ isotopes. Physical Review C, 2013, 88, .	2.9	25
66	Shell Closure in $^{82}\text{Z}$ -Decay Process. Physical Review Letters, 2013, 110, 202501.	7.8	93
67	$\hat{I}_{\pm}^2$ -delayed fission of $^{180}\text{Tl}$ . Physical Review C, 2013, 88, .	2.9	41
68	$\hat{I}_{\pm}^2$ -delayed fission of $^{186,188}\text{Bi}$ isotopes. Physical Review C, 2013, 87, .	2.9	13
69	$\hat{I}_{\pm}^2$ -delayed fission of $^{192,194}\text{At}$ . Physical Review C, 2013, 87, .	2.9	22
70	Investigation of high-K states in $^{252}\text{No}$ . Physical Review C, 2012, 86, .	2.9	28
71	Fission-barrier heights of neutron-deficient mercury nuclei. Physical Review C, 2012, 86, .	2.9	18
72	Early onset of deformation in the neutron-deficient polonium isotopes. Journal of Physics: Conference Series, 2012, 381, 012072.	0.4	3

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73	Alpha-gamma decay studies of $^{253}\text{No}$ and its daughter products $^{253}\text{Md}$ , $^{249}\text{Fm}$ . European Physical Journal A, 2012, 48, 1.	2.5	23
74	The reaction $^{48}\text{Ca} + ^{248}\text{Cm} \rightarrow ^{296116}^*$ studied at the GSI-SHIP. European Physical Journal A, 2012, 48, 1.	2.5	179
75	New approaches to assign configurations using low-statistic $\hat{I}^3$ -ray spectra. European Physical Journal A, 2012, 48, 1.	2.5	2
76	Determination of $\hat{I}^{\pm}$ -decay branching ratios for $^{178}$ , $^{179}\text{Hg}$ . European Physical Journal A, 2012, 48, 1.	2.5	5
77	Investigation of $\hat{I}^{\pm}$ -emission properties and evaporation residue measurement in the reactions using $^{238}\text{U}$ target nucleus. EPJ Web of Conferences, 2011, 17, 09005.	0.3	1
78	Decay study of $^{246}\text{Fm}$ at SHIP. European Physical Journal A, 2011, 47, 1.	2.5	13
79	Isomeric states in $^{253}\text{No}$ and $^{253}\text{Fm}$ . European Physical Journal A, 2011, 47, 1.	2.5	26
80	Shape coexistence in odd-mass Au isotopes: Determination of the excitation energy of the lowest intruder state in $^{179}\text{Au}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 82-87.	4.1	18
81	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. Physical Review Letters, 2011, 106, 052503.	7.8	94
82	Shape coexistence in $^{180}\text{Hg}$ studied through the $\hat{I}^2$ -decay of $^{180}\text{Tl}$ . Physical Review C, 2011, 84, .	2.9	46
83	Studies of neutron-deficient mendelevium isotopes at SHIP. European Physical Journal A, 2010, 43, 35.	2.5	39
84	Decay studies of K isomers in $^{254}\text{No}$ . European Physical Journal A, 2010, 43, 55.	2.5	76
85	Alpha-decay properties of $^{261}\text{Bh}$ . European Physical Journal A, 2010, 43, 175-180.	2.5	22
86	Alpha-gamma decay studies of $^{261}\text{Sg}$ and $^{257}\text{Rf}$ . European Physical Journal A, 2010, 45, 275-286.	2.5	38
87	The new isotope $^{208}\text{Th}$ . European Physical Journal A, 2010, 46, 337-343.	2.5	23
88	The new isotope $^{179}\text{Pb}$ and $\hat{I}^{\pm}$ -decay properties of $^{179}\text{Tl}$ . Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035102.	3.6	25
89	Nuclear orientation in the reaction $^{34}\text{S} + ^{238}\text{U}$ and synthesis of the new isotope $^{268}\text{Hs}$ . Physical Review C, 2010, 82, .	2.9	67
90	Structure of $^{191}\text{Pb}$ from $\hat{I}^{\pm}$ - and $\hat{I}^2$ -decay spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125103.	3.6	20

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91	Studies of SHE at SHIP. AIP Conference Proceedings, 2010, , .	0.4	0
92	K Isomer in [ <sup>252</sup> No. ], 2010, , .		0
93	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
94	New Type of Asymmetric Fission in Proton-Rich Nuclei. Physical Review Letters, 2010, 105, 252502.	7.8	197
95	$\frac{1}{2} \text{Pb}$ decay of	2.9	24
96	$\frac{1}{2} \text{At}$ decay of	2.9	23
97	$\frac{1}{2} \text{Hg}$ in	2.9	4
98	Decay of the $\frac{9}{2}^+$ isomer in <sup>181</sup> Tl and mass determination of low-lying states in <sup>181</sup> Tl, <sup>177</sup> Au, and <sup>173</sup> Ir. Physical Review C, 2009, 80, , .	2.9	31
99	$\frac{1}{2} \text{Pb}$ -ray spectroscopy of	2.9	7
100	Rotational Bands in <sup>183</sup> Lr -Ray Spectroscopy at the Limits: First Observation of	7.8	34
101	Decay properties of neutron-deficient isotopes of elements from Z = 101 to Z = 108. European Physical Journal A, 2009, 41, 145-153.	2.5	53
102	Superheavy Element Synthesis And Nuclear Structure. , 2009, , .		0
103	Decay studies of neutron-deficient lawrencium isotopes. European Physical Journal A, 2008, 38, 219-226.	2.5	28
104	Evidence for a strongly-coupled band in very neutron-deficient odd-mass nucleus [ <sup>185</sup> Pb]. AIP Conference Proceedings, 2008, , .	0.4	0
105	Confirmation Of Super Heavy Element Production In [ <sup>48</sup> Ca Induced Fusion Reactions A Handshake Of Physics And Chemistry For Element 112. AIP Conference Proceedings, 2008, , .	0.4	0
106	High-K, $t_{1/2} = 1.4(1)$ ms, isomeric state in <sup>255</sup> Lr. Physical Review C, 2008, 78, .	2.9	32
107	STUDIES OF SUPERHEAVY ELEMENTS AT SHIP. International Journal of Modern Physics E, 2007, 16, 937-947.	1.0	2
108	Measurement of evaporation residue cross-sections of the reaction <sup>30</sup> Si + <sup>238</sup> U at subbarrier energies. AIP Conference Proceedings, 2007, , .	0.4	5

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109	Measurement of Evaporation Residue and Fission Cross Sections of the Reaction $^{30}\text{Si} + ^{238}\text{U}$ at Subbarrier Energies. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2007, 8, 73-78.	0.7	1
110	The reaction $^{48}\text{Ca} + ^{238}\text{U} \rightarrow ^{286}\text{112}^*$ studied at the GSI-SHIP. <i>European Physical Journal A</i> , 2007, 32, 251-260.	2.5	256
111	Identification of a K isomer in $^{252}\text{No}$ . <i>European Physical Journal A</i> , 2007, 33, 327-331.	2.5	67
112	Isomeric states in $^{214}\text{Th}$ and $^{213}\text{Th}$ . <i>European Physical Journal A</i> , 2007, 34, 355-361.	2.5	15
113	Study of Superheavy Elements at the GSI-SHIP. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2006, 7, R25-R29.	0.7	8
114	Alpha-gamma decay studies of $^{255}\text{No}$ . <i>European Physical Journal A</i> , 2006, 29, 165-173.	2.5	38
115	Measurement of evaporation residue cross-sections of the reaction $^{30}\text{Si} + ^{238}\text{U}$ at subbarrier energies. <i>European Physical Journal A</i> , 2006, 29, 281-287.	2.5	59
116	Alpha-gamma decay studies of $^{255}\text{Rf}$ , $^{251}\text{No}$ and $^{247}\text{Fm}$ . <i>European Physical Journal A</i> , 2006, 30, 561-569.	2.5	54
117	Studies of $^{213}\text{g}$ , $^{m}\text{Ra}$ and $^{214}\text{g}$ , $^{m}\text{Ra}$ by $\hat{I}^{\pm}$ and $\hat{I}^3$ decay. <i>European Physical Journal A</i> , 2006, 30, 551-559.	2.5	21
118	$\hat{I}^{\pm}$ decay of the new isotopes $^{\text{Rn}}193,194$ . <i>Physical Review C</i> , 2006, 74, .	2.9	27
119	$\hat{I}^{\pm}$ -decay of the new isotope $^{\text{Po}}187$ : Probing prolate structures beyond the neutron mid-shell at $N = 104$ . <i>Physical Review C</i> , 2006, 73, .	2.9	36
120	$\hat{I}^{\pm}$ -decay spectroscopy of the new isotope $^{\text{At}}192$ . <i>Physical Review C</i> , 2006, 73, .	2.9	30
121	SYNTHESIS OF SHE AT SHIP. , 2006, , .		0
122	Energy systematics of low-lying Nilsson levels in odd-mass einsteinium isotopes. <i>European Physical Journal A</i> , 2005, 26, 233-239.	2.5	60
123	Cross section systematics for the lightest Bi and Po nuclei produced in complete fusion reactions with heavy ions. <i>Physical Review C</i> , 2005, 72, .	2.9	28
124	Target cooling for high-current experiments at SHIP. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 530, 185-193.	1.6	9
125	Properties of heavy nuclei measured at the GSI SHIP. <i>Nuclear Physics A</i> , 2004, 734, 93-100.	1.5	76
126	Reaction mechanism studies using the CN/ER spin distribution. <i>European Physical Journal A</i> , 2003, 20, 151-152.	2.5	3



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127	$\alpha$ -decay spectroscopy of light odd-odd Bi isotopes - I: 188,190Bi nuclei. European Physical Journal A, 2003, 18, 39-54.	2.5	29
128	Synthesis and properties of the heaviest elements. Nuclear Physics A, 2003, 719, C185-C192.	1.5	2
129	New results on elements 111 and 112. European Physical Journal A, 2002, 14, 147-157.	2.5	269
130	Radioactive decay of $^{217}\text{Pa}$ . European Physical Journal A, 2002, 15, 335-342.	2.5	26
131	THE NEW ISOTOPES $^{233}\text{Cm}$ AND $^{234}\text{Cm}$ . , 2002, , .		0
132	POSSIBILITIES AND LIMITS FOR MASS MEASUREMENT OF HEAVY EVAPORATION RESIDUES. , 2002, , .		0
133	Status of the target development for the heavy element program. AIP Conference Proceedings, 2001, , .	0.4	5
134	The new isotope $^{270}\text{110}$ and its decay products $^{266}\text{Hs}$ and $^{262}\text{Sg}$ . European Physical Journal A, 2001, 10, 5-10.	2.5	223