

Stanislav Antalic

List of Publications by Year in descending order

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134
papers

3,741
citations

147801

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138484

58
g-index

137
all docs

137
docs citations

137
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	New results on elements 111 and 112. European Physical Journal A, 2002, 14, 147-157.	2.5	269
2	The reaction $48\text{Ca} + 238\text{U} \rightarrow 286112^*$ studied at the GSI-SHIP. European Physical Journal A, 2007, 32, 251-260.	2.5	256
3	The new isotope 270110 and its decay products 266Hs and 262Sg . European Physical Journal A, 2001, 10, 5-10.	2.5	223
4	New Type of Asymmetric Fission in Proton-Rich Nuclei. Physical Review Letters, 2010, 105, 252502.	7.8	197
5	Review of even element super-heavy nuclei and search for element 120. European Physical Journal A, 2016, 52, 1.	2.5	182
6	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
7	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. Physical Review Letters, 2011, 106, 052503.	7.8	94
8	Signatures of the $Z=82$ Shell Closure in β -Decay Process. Physical Review Letters, 2013, 110, 242502.	7.8	93
9	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. Nature Communications, 2013, 4, 1835.	12.8	89
10	Properties of heavy nuclei measured at the GSI SHIP. Nuclear Physics A, 2004, 734, 93-100.	1.5	76
11	Decay studies of K isomers in 254No . European Physical Journal A, 2010, 43, 55.	2.5	76
12	Identification of a K isomer in 252No . European Physical Journal A, 2007, 33, 327-331.	2.5	67
13	Nuclear orientation in the reaction $^{34}\text{S} + ^{238}\text{U}$ and synthesis of the new isotope ^{268}Hs . Physical Review C, 2010, 82, .	2.9	67
14	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	4.1	64
15	Energy systematics of low-lying Nilsson levels in odd-mass einsteinium isotopes. European Physical Journal A, 2005, 26, 233-239.	2.5	60
16	Measurement of evaporation residue cross-sections of the reaction $^{30}\text{Si} + ^{238}\text{U}$ at subbarrier energies. European Physical Journal A, 2006, 29, 281-287.	2.5	59
17	Alpha-gamma decay studies of ^{255}Rf , ^{251}No and ^{247}Fm . European Physical Journal A, 2006, 30, 561-569.	2.5	54
18	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

#	ARTICLE	IF	CITATIONS
19	Electromagnetic moments of odd- A nuclei $\langle \sigma \rangle = \langle \sigma \rangle_{\text{normal}} + \langle \sigma \rangle_{\text{prescripts}}$ Physical Review C, 2014, 89, .	2.9	51
20	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
21	Shape coexistence in ^{180}Hg studied through the β -decay of ^{180}Hg $\langle \sigma \rangle = \langle \sigma \rangle_{\text{normal}} + \langle \sigma \rangle_{\text{prescripts}}$ Physical Review C, 2011, 84, .	2.9	46
22	Delayed fission of ^{180}Tl $\langle \sigma \rangle = \langle \sigma \rangle_{\text{normal}} + \langle \sigma \rangle_{\text{prescripts}}$ Physical Review C, 2013, 88, .	2.9	41
23	Studies of neutron-deficient mendelevium isotopes at SHIP. European Physical Journal A, 2010, 43, 35.	2.5	39
24	Evolution of fission-fragment mass distributions in the neutron-deficient lead region. Physical Review C, 2014, 90, .	2.9	39
25	Alpha-gamma decay studies of ^{255}No . European Physical Journal A, 2006, 29, 165-173.	2.5	38
26	Alpha-gamma decay studies of ^{261}Sg and ^{257}Rf . European Physical Journal A, 2010, 45, 275-286.	2.5	38
27	β -decay of the new isotope ^{187}Po : Probing prolate structures beyond the neutron mid-shell at $N = 104$. Physical Review C, 2006, 73, .	2.9	36
28	Charge radii and electromagnetic moments of ^{195}At $\langle \sigma \rangle = \langle \sigma \rangle_{\text{normal}} + \langle \sigma \rangle_{\text{prescripts}}$ Physical Review C, 2018, 97, .	2.9	35
29	Rotational Bands in ^{255}Lr - Ray Spectroscopy at the Limits: First Observation of $\langle \sigma \rangle = \langle \sigma \rangle_{\text{normal}} + \langle \sigma \rangle_{\text{prescripts}}$ Physical Review Letters, 2009, 102, 212501.	7.8	34
30	High-K, $t_{1/2} = 1.4(1)$ ms, isomeric state in ^{255}Lr . Physical Review C, 2008, 78, .	2.9	32
31	Decay of the $^{9/2}^+$ isomer in ^{181}Tl and mass determination of low-lying states in ^{181}Tl , ^{177}Au , and ^{173}Ir . Physical Review C, 2009, 80, .	2.9	31
32	β -decay spectroscopy of the new isotope ^{192}At . Physical Review C, 2006, 73, .	2.9	30
33	α -decay spectroscopy of light odd-odd Bi isotopes - I: $^{188,190}\text{Bi}$ nuclei. European Physical Journal A, 2003, 18, 39-54.	2.5	29
34	Cross section systematics for the lightest Bi and Po nuclei produced in complete fusion reactions with heavy ions. Physical Review C, 2005, 72, .	2.9	28
35	Decay studies of neutron-deficient lawrencium isotopes. European Physical Journal A, 2008, 38, 219-226.	2.5	28
36	Investigation of high-K states in ^{252}No . Physical Review C, 2012, 86, .	2.9	28

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37	\hat{I}_{\pm} decay of the new isotopes Rn193,194. Physical Review C, 2006, 74, .	2.9	27
38	Large Shape Staggering in Neutron-Deficient Bi Isotopes. Physical Review Letters, 2021, 127, 192501.	7.8	27
39	Radioactive decay of 217Pa. European Physical Journal A, 2002, 15, 335-342.	2.5	26
40	Isomeric states in 253No and 253Fm. European Physical Journal A, 2011, 47, 1.	2.5	26
41	The new isotope ^{179}Pb and \hat{I}_{\pm} -decay properties of ^{179}Tl . Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035102.	3.6	25
42	\hat{I}_{\pm} decay of the very neutron-deficient isotopes ^{197}Po and ^{199}Po . Physical Review C, 2013, 87, .	2.9	25
43	Remarks on the fission barriers of super-heavy nuclei. European Physical Journal A, 2016, 52, 1.	2.5	25
44	Investigation of electron capture decay of 258Db and α \hat{I}_{\pm} decay of 258Rf. European Physical Journal A, 2016, 52, 1.	2.5	25
45	\hat{I}_{\pm} decay of ^{181}Pb . Physical Review C, 2013, 88, .	2.9	24
46	\hat{I}_{\pm} decay of ^{181}Tl . Physical Review C, 2013, 88, .	2.9	24
47	Hyperfine anomaly in gold and magnetic moments of gold isomers. Physical Review C, 2020, 101, .	2.9	24
48	\hat{I}_{\pm} decay of ^{194}At . Physical Review C, 2009, 79, .	2.9	23
49	The new isotope 208Th. European Physical Journal A, 2010, 46, 337-343.	2.5	23
50	Alpha-gamma decay studies of 253No and its daughter products 253Md , 249Fm. European Physical Journal A, 2012, 48, 1.	2.5	23
51	Alpha-decay properties of 261Bh. European Physical Journal A, 2010, 43, 175-180.	2.5	22
52	\hat{I}_{\pm} -delayed fission of 192,194At. Physical Review C, 2013, 87, .	2.9	22
53	Decay of ^{203}Ra and ^{202}Fr . Physical Review C, 2014, 89, .	2.9	22
54	Change in structure between the $\hat{I}_{\pm} = \hat{I}_{\pm}^{1/2}$ states in 181Tl and 177,179Au. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 355-363.	4.1	22

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55	Studies of $^{213}\text{g}, \text{mRa}$ and $^{214}\text{g}, \text{mRa}$ by $\hat{1}\pm$ and $\hat{1}^3$ decay. European Physical Journal A, 2006, 30, 551-559.	2.5	21
56	Structure of ^{191}Pb from $\hat{1}\pm$ - and $\hat{1}^2$ -decay spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125103.	3.6	20
57	Shape coexistence in odd-mass Au isotopes: Determination of the excitation energy of the lowest intruder state in ^{179}Au . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 82-87.	4.1	18
58	Fission-barrier heights of neutron-deficient mercury nuclei. Physical Review C, 2012, 86, .	2.9	18
59	In-Source Laser Spectroscopy with the Laser Ion Source and Trap: First Direct Study of the Ground-State Properties of ^{217}Po . Physical Review X, 2015, 5, .	8.9	18
60	Nuclear isomers in ^{259}Sg and ^{255}Rf . European Physical Journal A, 2015, 51, 1.	2.5	18
61	Study of the deformation-driving $\hat{1}^2$ orbital in ^{67}Ni using one-neutron transfer reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 533-538.	4.1	16
62	Isomeric states in ^{214}Th and ^{213}Th . European Physical Journal A, 2007, 34, 355-361.	2.5	15
63	Empirical description of $\hat{1}^2$ -delayed fission partial half-lives. Physical Review C, 2015, 91, .	2.9	14
64	Alpha- and EC-decay measurements of ^{257}Rf . European Physical Journal A, 2016, 52, 1.	2.5	14
65	The $^{48}\text{Ca}+^{181}\text{Ta}$ reaction: Cross section studies and investigation of neutron-deficient ^{86}Z isotopes. Nuclear Physics A, 2019, 987, 337-349.	1.5	14
66	Decay study of ^{246}Fm at SHIP. European Physical Journal A, 2011, 47, 1.	2.5	13
67	$\hat{1}^2$ -decay spectroscopy of the chain ^{179}Tl . Physical Review C, 2013, 87, .	2.9	13
68	$\hat{1}^2$ -delayed fission of $^{186,188}\text{Bi}$ isotopes. Physical Review C, 2013, 87, .	2.9	13
69	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
70	Inverse odd-even staggering in nuclear charge radii and possible octupole collectivity in $^{217,218,219}\text{At}$ revealed by in-source laser spectroscopy. Physical Review C, 2019, 99, .	2.9	13
71	Levels in ^{223}Th populated by $\hat{1}\pm$ decay of ^{227}U . Physical Review C, 2015, 92, .	2.9	11
72	K isomerism in ^{255}Rf and total kinetic energy measurements for spontaneous fission of ^{255}Rf . Physical Review C, 2015, 92, .	2.9	11

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73	<p>and \hat{I}_{\pm} decay of ^{200}Fr. Physical Review C, 2019, 100, .</p> <p>Laser-assisted decay spectroscopy for the ground states of ^{200}Fr. Physical Review C, 2019, 100, .</p>	2.9	10
74	<p>\hat{I}_{\pm} decay properties of ^{200}Fr. Physical Review C, 2019, 100, .</p> <p>Laser-assisted decay spectroscopy for the ground states of ^{200}Fr. Physical Review C, 2019, 100, .</p>	2.9	10
75	<p>Target cooling for high-current experiments at SHIP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 530, 185-193.</p> <p>Experimental study of the $^{66}\text{Ni}(d,p)^{67}\text{Ni}$ one-neutron transfer reaction. Physical Review C, 2015, 91, .</p>	2.9	10
76	<p>Target cooling for high-current experiments at SHIP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 530, 185-193.</p>	1.6	9
77	<p>Experimental study of the $^{66}\text{Ni}(d,p)^{67}\text{Ni}$ one-neutron transfer reaction. Physical Review C, 2015, 91, .</p>	2.9	9
78	<p>Study of Superheavy Elements at the GSI-SHIP. Journal of Nuclear and Radiochemical Sciences, 2006, 7, R25-R29.</p>	0.7	8
79	<p>\hat{I}_{\pm} decay of ^{176}Au. Physical Review C, 2014, 90, .</p>	2.9	8
80	<p>Laser-assisted decay spectroscopy and mass spectrometry of ^{178}Au. Physical Review C, 2020, 102, .</p>	2.9	8
81	<p>\hat{I}^3 -ray spectroscopy of ^{208}Pb. Physical Review C, 2019, 100, .</p>	2.9	7
82	<p>\hat{I}^2 -delayed fission of ^{230}Am. Physical Review C, 2017, 96, .</p>	2.9	7
83	<p>\hat{I}^2 -delayed fission of isomers in ^{188}Bi. Physical Review C, 2020, 102, .</p>	2.9	7
84	<p>Laser-assisted nuclear decay spectroscopy of ^{176}Au. Physical Review C, 2021, 104, .</p>	2.9	7
85	<p>Alpha-gamma decay studies of ^{258}Db and its (grand) daughter nuclei ^{254}Lr and ^{250}Md. European Physical Journal A, 2019, 55, 1.</p>	2.5	6
86	<p>The New ^{249}No Isotope. Physics of Particles and Nuclei Letters, 2021, 18, 445-448.</p>	0.4	6
87	<p>Study of the production and decay properties of neutron-deficient nobelium isotopes. European Physical Journal A, 2022, 58, 1.</p>	2.5	6
88	<p>Status of the target development for the heavy element program. AIP Conference Proceedings, 2001, , .</p>	0.4	5
89	<p>Measurement of evaporation residue cross-sections of the reaction $^{30}\text{Si} + ^{238}\text{U}$ at subbarrier energies. AIP Conference Proceedings, 2007, , .</p>	0.4	5
90	<p>Determination of \hat{I}_{\pm}-decay branching ratios for $^{178}, ^{179}\text{Hg}$. European Physical Journal A, 2012, 48, 1.</p>	2.5	5

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91	Fine structure in the $\hat{I}\pm$ decay of At218. Physical Review C, 2019, 99, .	2.9	5
92	Identification and decay of the 0.48 ms ^{13}Hg in ^{181}Hg . Physical Review C, 2009, 81, .	2.9	4
93	Short-lived isomers in ^{192}Po . Physical Review C, 2009, 81, .	2.9	4
94	Detailed study of ^{186}Tl -decay study of ^{180}Tl . Physical Review C, 2016, 93, .	2.9	4
95	Prompt Neutrons from Spontaneous ^{254}Rf Fission. Physics of Particles and Nuclei Letters, 2019, 16, 768-771.	0.4	4
96	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
97	Alpha-gamma decay studies of ^{247}Md . European Physical Journal A, 2022, 58, 1.	2.5	4
98	Reaction mechanism studies using the CN/ER spin distribution. European Physical Journal A, 2003, 20, 151-152.	2.5	3
99	Early onset of deformation in the neutron-deficient polonium isotopes. Journal of Physics: Conference Series, 2012, 381, 012072.	0.4	3
100	Study of heavy-ion induced fission for heavy-element synthesis. EPJ Web of Conferences, 2014, 66, 03065.	0.3	3
101	COMPASS – 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
102	Decay studies of the long-lived states in ^{186}Tl . Physical Review C, 2020, 102, .	2.9	3
103	Identification of sub- ^{174}Au isomeric states in the odd-odd nucleus ^{178}Au . Physical Review C, 2021, 103, .	2.9	3
104	Comparative Study of Spontaneous-Fission Characteristics of ^{252}No and ^{254}No Isotopes. Physics of Particles and Nuclei Letters, 2021, 18, 449-456.	0.4	3
105	The SFINx Detector System. Physics of Particles and Nuclei Letters, 2022, 19, 37-45.	0.4	3
106	First observation of a shape isomer and a low-lying strongly-coupled prolate band in neutron-deficient semi-magic ^{187}Pb . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137129.	4.1	3
107	Synthesis and properties of the heaviest elements. Nuclear Physics A, 2003, 719, C185-C192.	1.5	2
108	STUDIES OF SUPERHEAVY ELEMENTS AT SHIP. International Journal of Modern Physics E, 2007, 16, 937-947.	1.0	2

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109	New approaches to assign configurations using low-statistic \hat{I}^3 -ray spectra. European Physical Journal A, 2012, 48, 1.	2.5	2
110	Spin distribution measurement for $^{64}\text{Ni} + ^{100}\text{Mo}$ at near and above barrier energies. EPJ Web of Conferences, 2015, 86, 00053.	0.3	2
111	Identification of a $6.6\hat{I}^{1/4s}$ isomeric state in Ir^{175} . Physical Review C, 2019, 99, .	2.9	2
112	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -decay branching ratio of $\langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Pt} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$ $\langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 180 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$. Physical Review C, 2020, 101,	2.9	2
113	Fission Barriers of Super-Heavy Nuclei and Search for Element 120. , 2017, , .		2
114	Total Kinetic Energy Measurements for Spontaneous Fission of $^{255,256,258}\text{Rf}$. Acta Physica Polonica B, 2018, 49, 605.	0.8	2
115	Isomeric States in $(^{255})\text{Rf}$, $(^{256})\text{Rf}$ and $(^{257})\text{Rf}$. Acta Physica Polonica B, 2020, 51, 849.	0.8	2
116	Decay studies of new isomeric states in $\langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{No} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$ $\langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 255 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$. Physical Review C, 2022, 106,	2.9	2
117	Measurement of Evaporation Residue and Fission Cross Sections of the Reaction $^{30}\text{Si} + ^{238}\text{U}$ at Subbarrier Energies. Journal of Nuclear and Radiochemical Sciences, 2007, 8, 73-78.	0.7	1
118	Investigation of fission properties and evaporation residue measurement in the reactions using ^{238}U target nucleus. EPJ Web of Conferences, 2011, 17, 09005.	0.3	1
119	Nuclear Structure of Heavy $\langle \text{span class="cmmi-10"} \rangle \langle \text{span class="cmr-10"} \rangle = 153$ $\langle \text{span class="cmmi-10"} \rangle \langle \text{span class="cmr-10"} \rangle$ Isotones. Acta Physica Polonica B, 2013, 44, 387.	0.8	1
120	Velocity filter SHELS: Performance and experimental results. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 219-220.	1.4	1
121	New \hat{I}^2 -decaying state in Bi^{214} . Physical Review C, 2021, 104, .	2.9	1
122	Evidence for a strongly-coupled band in very neutron-deficient odd-mass nucleus ^{185}Pb . AIP Conference Proceedings, 2008, , .	0.4	0
123	Confirmation Of Super Heavy Element Production In ^{48}Ca Induced Fusion Reactions A Handshake Of Physics And Chemistry For Element 112. AIP Conference Proceedings, 2008, , .	0.4	0
124	Superheavy Element Synthesis And Nuclear Structure. , 2009, , .		0
125	Studies of SHE at SHIP. AIP Conference Proceedings, 2010, , .	0.4	0
126	K Isomer in ^{252}No . , 2010, , .		0

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127	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
128	Nuclear structure studies in the seaborgium region at SHIP. AIP Conference Proceedings, 2015, , .	0.4	0
129	Spontaneous fission of rutherfordium isotopes - total kinetic energies. EPJ Web of Conferences, 2019, 223, 01043.	0.3	0
130	Spectroscopy of the Isotopes of Transfermium Elements in Dubna: Current Status and Prospects. Physics of Atomic Nuclei, 2020, 83, 503-512.	0.4	0
131	THE NEW ISOTOPES ²³³ Cm AND ²³⁴ Cm. , 2002, , .		0
132	POSSIBILITIES AND LIMITS FOR MASS MEASUREMENT OF HEAVY EVAPORATION RESIDUES. , 2002, , .		0
133	SYNTHESIS OF SHE AT SHIP. , 2006, , .		0
134	Producing gold at ISOLDE-CERN. Nuclear Instruments & Methods in Physics Research B, 2022, 513, 26-32.	1.4	0