

# Tz T Kokalova

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

1,458  
citations

304743

22  
h-index

377865

34  
g-index

107  
all docs

107  
docs citations

107  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for cluster structure of excited states in $^{14}\text{C}$ . European Physical Journal A, 2004, 21, 193-215.	2.5	76
2	Signatures for Multi- $\hat{I}\pm$ -Condensed States. Physical Review Letters, 2006, 96, 192502.	7.8	66
3	New Measurement of the Direct Decay from the $^{12}\text{C}$ . European Physical Journal A, 2005, 23, 19-31.	2.5	47
4	Spectroscopy of $^{17}\text{C}$ and $(sd)^3$ structures in heavy carbon isotopes. European Physical Journal A, 2007, 31, 279-302.	2.5	45
5	Structure of $^{10}\text{Be}$ from the $^{12}\text{C}(^{12}\text{C}, ^{14}\text{C})^{10}\text{Be}$ reaction. Physical Review C, 2007, 75, .	2.9	41
6	Fission and ternary cluster decay of hyper-deformed $^{56}\text{Ni}$ . European Physical Journal A, 2008, 36, 279.	2.5	40
7	Spectroscopy of particle-hole states of $^{16}\text{C}$ . Physical Review C, 2003, 68, .	2.9	35
8	Measurement of $\hat{I}\pm$ and neutron decay widths of excited states of $^{14}\text{C}$ . Physical Review C, 2008, 78, .	2.9	33
9	Experimental investigation of $\hat{I}\pm$ condensation in light nuclei. Physical Review C, 2019, 100, .	2.9	29
10	Analysis of states in $^{13}\text{C}$ populated in $^9\text{Be}+^4\text{He}$ resonant scattering. Physical Review C, 2011, 84, .	2.9	28
11	Mixing of di-neutron components in $^8\text{He}$ . Physical Review C, 2008, 78, .	2.9	26
12	Binary reaction decays from $^{24}\text{Mg}+^{12}\text{C}$ . Physical Review C, 2009, 80, .	2.9	25
13	Neutron decay widths of excited states of $^{11}\text{Be}$ . Physical Review C, 2009, 79, .	2.9	24
14	Recent advances in positron emission particle tracking: a comparative review. Reports on Progress in Physics, 2022, 85, 016101.	20.1	24
15	High-resolution measurement of absolute $\hat{I}\pm$ -decay widths in $^{16}\text{O}$ . Physical Review C, 2011, 83, .	2.9	23

#	ARTICLE	IF	CITATIONS
19	Structure evolution in the neutron-rich osmium isotopes: Prompt $\gamma$ -ray spectroscopy of $^{196}\text{Os}$ . Physical Review C, 2014, 90, .	2.9	23
20	Structure studies of neutron-rich beryllium and carbon isotopes. Nuclear Physics A, 2003, 722, C3-C9.	1.5	22
21	Particle-hole structures of neutron-rich Be- and C-isotopes. Nuclear Physics A, 2004, 734, 345-348.	1.5	22
22	Gas-like state of $^{16}\text{O}$ clusters around $^{16}\text{O}$ . Physical Review C, 2017, 95, .	2.9	22
23	Core cluster state candidate in $^{16}\text{O}$ . Physical Review C, 2017, 95, .	2.9	22
24	Structure of neutron-rich Be and C isotopes. Physics of Atomic Nuclei, 2003, 66, 1494-1500.	0.4	21
25	Evidence for $^{15}\text{O}$ resonance structures in $^{19}\text{Ne}$ via direct measurement. Physical Review C, 2017, 96, .	2.9	21
26	Octupole-deformed molecular bands in $^{21}\text{Ne}$ . European Physical Journal A, 2005, 26, 321-326.	2.5	20
27	Precision measurement of the 9.641 MeV, $3^{-}$ state in $^{12}\text{C}$ . Physical Review C, 2013, 87, .	2.9	18
28	Gamma-decay study of $^{21}\text{Na}$ and $^{21}\text{Ne}$ , octupole bands in $^{21}\text{Ne}$ . Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 509-519.	3.6	17
29	Spectroscopy of $^{40}\text{Ca}$ and negative-parity bands. European Physical Journal A, 2004, 19, 307-317.	2.5	16
30	BAND STRUCTURES IN $^{12}\text{Be}$ : EXPERIMENTAL RESULTS. International Journal of Modern Physics E, 2008, 17, 2067-2070.	1.0	16
31	Cluster Structure of $^{12}\text{C}$ and $^{11}\text{Be}$ . Nuclear Physics A, 2010, 834, 621c-626c.	1.5	16
32	Effect of distributor design on particle distribution in a binary fluidised bed. Powder Technology, 2020, 367, 1-9.	4.2	16
33	States in $^{17}\text{O}$ excited in the $^{13}\text{C} + ^9\text{Be} \rightarrow ^{13}\text{C} + 2\alpha + n$ reaction at 90 MeV. European Physical Journal A, 2009, 41, 335-339.	2.5	14
34	Hyperfine splitting and isotope shift in the optical transition of Eu isotopes and electromagnetic moments of Eu. European Physical Journal D, 2000, 11, 341-345.	1.3	13
35	Structure of neutron-rich beryllium and carbon isotopes. Nuclear Physics A, 2004, 738, 333-336.	1.5	13
36	Structures in $^{200}\text{Pb}$ from the $^{14}\text{C}(^7\text{Li}, p)$ reaction at 44 MeV. European Physical Journal A, 2011, 47, 1.	2.5	13

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37	Absolute partial decay-branch measurements in $^{13}\text{Li}$ in-beam $\alpha$ decay. Physical Review C, 2012, 86, .	2.9	13
38	Ray spectroscopy of the neutron-rich platinum isotope $^{200}\text{Pt}$ toward the $^{126}\text{Mo}$ cluster. Physical Review C, 2012, 86, .	2.9	12
39	Structure studies of neutron-rich beryllium and carbon isotopes. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 179-184.	2.9	12
40	Structure Studies of Neutron-Rich Beryllium and Carbon Isotopes. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 179-184.	0.4	11
41	Coupling between $\hat{I}^{\pm}$ -condensed states and normal cluster states. Physical Review C, 2008, 77, .	2.9	11
42	Shell model and band structures in $^{19}\text{O}$ . European Physical Journal A, 2010, 46, 345-358.	2.5	11
43	Title is missing!. Acta Physica Polonica B, 2011, 42, 747.	0.8	11
44	Search for $^{12}\text{C}+^{12}\text{C}$ molecule in $^{24}\text{Mg}^*$ populated by $^{24}\text{Mg}+^{12}\text{C}$ . Nuclear Physics A, 2004, 734, 453-456.	1.5	10
45	Energy levels of $^{18}\text{F}$ from the $^{14}\text{N}+\hat{I}^{\pm}$ resonant reaction. Physical Review C, 2014, 90, .	2.9	10
46	Spectroscopy of narrow, high-lying, low-spin states in $^{20}\text{Ne}$ . Physical Review C, 2015, 91, .	2.9	10
47	Neutron-upscattering enhancement of the triple-alpha process. Nature Communications, 2022, 13, 2151.	12.8	10
48	Alpha decay widths of excited states of $^{16}\text{O}$ . Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035103.	3.6	9
49	Search for three $\hat{I}^{\pm}$ states around an $^{16}\text{O}$ core in $^{28}\text{Si}$ . Physical Review C, 2012, 86, .	2.9	9
50	States at high excitation in $^{12}\text{C}$ from the $^{12}\text{C}(\text{He}^3, \text{He}^3)\hat{I}^{\pm}$ reaction. Physical Review C, 2014, 90, .	2.9	9
51	The identification of $\alpha$ -clustered doorway states in $^{44,48,52}\text{Ti}$ using machine learning. European Physical Journal A, 2021, 57, 1.	2.5	8
52	Convolutional Neural Networks for Challenges in Automated Nuclide Identification. Sensors, 2021, 21, 5238.	3.8	8
53	Spectroscopy of Ne, Na and Mg isotopes approaching the Island of Inversion. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1903-S1906.	3.6	7
54	Three $\hat{I}^{\pm}$ state around $^{40}\text{Ca}$ . Physical Review C, 2010, 82, .	2.9	7

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55	Theoretical approaches to the $3\hat{1}\pm$ break-up of $^{12}\text{C}$ . Journal of Physics: Conference Series, 2019, 1308, 012021.	0.4	7
56	Yield measurements for resonances above the multi- $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mn} \rangle 20 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{Ne}$ . Physical Review C, 2013, 87, .	2.9	6
57	The thick target inverse kinematics technique with a large acceptance silicon detector array. Journal of Physics: Conference Series, 2014, 569, 012052.	0.4	6
58	The Hoyle Family: The Search for Alpha-Condensate States in Light Nuclei. Few-Body Systems, 2020, 61, 1.	1.5	6
59	ALPHA-CLUSTER STATES POPULATED IN $^{24}\text{Mg} + ^{12}\text{C}$ . International Journal of Modern Physics E, 2008, 17, 2049-2054.	1.0	5
60	Spectroscopy of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 9 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle \text{via high-resolution ejectile-tagged recoil break-up}$ . Physical Review C, 2015, 91, .	2.9	5
61	Positron Emission Particle Tracking for Liquid-Solid Mixing in Stirred Tanks. Chemical Engineering and Technology, 2020, 43, 1939-1950.	1.5	5
62	SuperPEPT: A new tool for positron emission particle tracking; first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1028, 166254.	1.6	5
63	Particle- $\hat{1}\pm$ coincidences and coplanarity in the $^{32}\text{S}+^{24}\text{Mg}$ binary reaction. Nuclear Physics A, 2008, 811, 276-290.	1.5	4
64	Reaction mechanisms in $^{24}\text{Mg}+^{12}\text{C}$ and $^{32}\text{S}+^{24}\text{Mg}$ . , 2009, , .		4
65	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
66	Search for evidence of rotational cluster bands in $^{18}\text{O}$ . Physical Review C, 2020, 102, .	2.9	4
67	A study of $\hat{1}\pm$ decays and octupole bands in $^{21}\text{Ne}$ and $^{21}\text{Na}$ . Physics of Atomic Nuclei, 2003, 66, 1428-1433.	0.4	3
68	Spectroscopy of Ne and Na isotopes: Preliminary results from a EUROBALL + Binary Reaction Spectrometer experiment. European Physical Journal A, 2005, 25, 431-432.	2.5	3
69	Structure studies of excited states of $^{17}\text{C}$ and $^{16}\text{C}$ . Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1461-S1464.	3.6	3
70	New assignments for $^{10}\text{Be}$ states from the $^{12}\text{C}(^{12}\text{C},^{14}\text{O})^{10}\text{Be}$ reaction. Nuclear Physics A, 2007, 787, 451-454.	1.5	3
71	15 Years of the European Nuclear Education Network (ENEN Association). , 2018, , .		3
72	Precision branching-ratio measurements in $^{18}\text{O}$ . European Physical Journal A, 2021, 57, 1.	2.5	3

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73	Clustering in $^{18}\text{O}$ - absolute determination of branching ratios via high-resolution particle spectroscopy. SciPost Physics Proceedings, 2020, , .	0.4	3
74	THREE $\hat{1}\pm$ STATE AROUND $^{40}\text{Ca}$ . Modern Physics Letters A, 2010, 25, 1947-1950.	1.2	2
75	Who plays in the Hoyle band?. EPJ Web of Conferences, 2014, 66, 03046.	0.3	2
76	Alpha clustering in $^{18}\text{F}$ . Journal of Physics: Conference Series, 2014, 569, 012053.	0.4	2
77	Evidence for a 3.8 MeV state in $^9\text{Be}$ . Physical Review C, 2016, 94, .	2.9	2
78	Experimental study of high-lying states in $^{28}\text{Mg}$ using the resonant elastic scattering of $\hat{1}\pm$ particles. Physical Review C, 2016, 94, .	2.9	2
79	An improved upper limit on the direct $3\hat{1}\pm$ decay of the Hoyle state. AIP Conference Proceedings, 2018, , .	0.4	2
80	Mass measurement of $^{190}\text{Re}$ . Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 085104.	3.6	2
81	THREE- $\hat{1}\pm$ CLUSTER STATE AROUND $^{40}\text{Ca}$ CORE. International Journal of Modern Physics E, 2011, 20, 1012-1017.	1.0	1
82	Absolute partial decay branching-ratios in $^{16}\text{O}$ . Journal of Physics: Conference Series, 2013, 436, 012017.	0.4	1
83	Exotic cluster structure in light nuclei. Journal of Physics: Conference Series, 2013, 420, 012080.	0.4	1
84	To condense, or not to condense, that is the question. Journal of Physics: Conference Series, 2014, 569, 012010.	0.4	1
85	The Rotation-Vibration Structure of $^{12}\text{C}$ . Journal of Physics: Conference Series, 2014, 569, 012011.	0.4	1
86	Over half a century of studying carbon-12. Journal of Physics: Conference Series, 2015, 639, 012003.	0.4	1
87	Disentangling unclear nuclear breakup channels of beryllium-9 using the three-axis Dalitz plot. Journal of Physics: Conference Series, 2017, 863, 012032.	0.4	1
88	High multiplicity $\hat{1}\pm$ -particle breakup measurements to study $\hat{1}\pm$ -condensate states. Journal of Physics: Conference Series, 2017, 863, 012070.	0.4	1
89	A method to determine $\hat{1}^3$ branching ratios using charged particle detectors for states in $^{18}\text{O}$ . AIP Conference Proceedings, 2018, , .	0.4	1
90	Optimising resistive charge-division strip detectors for low energy charged-particle spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 901, 14-20.	1.6	1

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91	Measurement of the structure of potential cluster bands and absolute branching ratios of high-energy states in $^{18}\text{O}^*$ . Journal of Physics: Conference Series, 2020, 1643, 012155.	0.4	1
92	Undergraduate experiments with a $^{44}\text{Ti}$ source. European Journal of Physics, 2020, 42, 015805.	0.6	1
93	Nuclear clusters and structure in light nuclei. AIP Conference Proceedings, 2004, , .	0.4	0
94	Investigation into the structure of $^{14}\text{C}$ using recoil co-incidence techniques. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1921-S1925.	3.6	0
95	$^{13}\text{C}+^4\text{He}$ resonant elastic scattering on a thick gas target. , 2012, , .		0
96	Absolute decay width measurements in $^{16}\text{O}$ . Journal of Physics: Conference Series, 2012, 381, 012078.	0.4	0
97	$^{13}\text{C}+^4\text{He}$ resonant elastic scattering on a thick gas target. Journal of Physics: Conference Series, 2013, 436, 012020.	0.4	0
98	Study of shape transition in the neutron-rich Os isotopes. EPJ Web of Conferences, 2014, 66, 02057.	0.3	0
99	A newly observed state in $^{12}\text{C}$ $\alpha$ characterisation and consequences. Journal of Physics: Conference Series, 2014, 569, 012071.	0.4	0
100	To the Hoyle state and beyond. AIP Conference Proceedings, 2015, , .	0.4	0
101	Alpha clustering in Ti isotopes: $^{40,44,48}\text{Ca} + ^1\text{H}$ resonant scattering. EPJ Web of Conferences, 2016, 113, 08002.	0.3	0
102	$^{15}\text{O} + ^1\text{H}$ resonant elastic scattering to study cluster states in $^{19}\text{Ne}$ . Journal of Physics: Conference Series, 2017, 863, 012026.	0.4	0
103	Nuclear Clusters in Astrophysics. , 2017, , .		0
104	Beautiful clusters $\alpha$ boron-9: simulations and decay. Journal of Physics: Conference Series, 2017, 863, 012023.	0.4	0
105	Oxygen-15 $+ ^1\text{H}$ resonant elastic scattering to study cluster states in $^{19}\text{Ne}$ . Journal of Physics: Conference Series, 2017, 876, 012021.	0.4	0
106	Investigating Artefacts Associated with $^1\text{H}$ Particle Interactions in Charge Coupled Devices. , 2017, , .		0
107	The Hoyle Family: break-up measurements to probe $^1\text{H}$ -condensation in light nuclei. SciPost Physics Proceedings, 2020, , .	0.4	0