

Tz T Kokalova

List of Publications by Year in descending order

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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	Recent advances in positron emission particle tracking: a comparative review. Reports on Progress in Physics, 2022, 85, 016101.	20.1	24
2	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
3	Neutron-upscattering enhancement of the triple-alpha process. Nature Communications, 2022, 13, 2151.	12.8	10
4	The identification of $\{\vec{\alpha}\}$ -clustered doorway states in $^{44,48,52}\text{Ti}$ using machine learning. European Physical Journal A, 2021, 57, 1.	2.5	8
5	Precision branching-ratio measurements in ^{18}O . European Physical Journal A, 2021, 57, 1.	2.5	3
6	Convolutional Neural Networks for Challenges in Automated Nuclide Identification. Sensors, 2021, 21, 5238.	3.8	8
7	Positron Emission Particle Tracking for Liquid-Solid Mixing in Stirred Tanks. Chemical Engineering and Technology, 2020, 43, 1939-1950.	1.5	5
8	Search for evidence of rotational cluster bands in $\text{O}18$. Physical Review C, 2020, 102, .	2.9	4
9	Effect of distributor design on particle distribution in a binary fluidised bed. Powder Technology, 2020, 367, 1-9.	4.2	16
10	The Hoyle Family: The Search for Alpha-Condensate States in Light Nuclei. Few-Body Systems, 2020, 61, 1.	1.5	6
11	Mass measurement of Re-190. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 085104.	3.6	2
12	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
13	Clustering in ^{18}O - absolute determination of branching ratios via high-resolution particle spectroscopy. SciPost Physics Proceedings, 2020, , .	0.4	3
14	The Hoyle Family: break-up measurements to probe α -condensation in light nuclei. SciPost Physics Proceedings, 2020, , .	0.4	0
15	Undergraduate experiments with a ^{44}Ti source. European Journal of Physics, 2020, 42, 015805.	0.6	1
16	Theoretical approaches to the 3α break-up of ^{12}C . Journal of Physics: Conference Series, 2019, 1308, 012021.	0.4	7
17	Experimental investigation of α -condensation in light nuclei. Physical Review C, 2019, 100, .	2.9	29
18	Extracting the spectral signature of α -clustering in ^{44}Ti . Physical Review C, 2019, 100, .	2.9	12

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19	15 Years of the European Nuclear Education Network (ENEN Association). , 2018, , .		3
20	A method to determine \hat{I}^3 branching ratios using charged particle detectors for states in ^{180}O . AIP Conference Proceedings, 2018, , .	0.4	1
21	An improved upper limit on the direct $3\hat{I}^{\pm}$ decay of the Hoyle state. AIP Conference Proceedings, 2018, , .	0.4	2
22	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
23	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>4</mml:mn><mml:mtext> \hat{a} ^{</mml:mtext><mml:mi>\hat{I}^{\pm}</mml:mi></mml:math> cluster state candidate in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:multiscripts><mml:mi>O</mml:mi><mml:mprescripts /><mml:none mathvariant="normal">U</mml:mi></mml:math> New Measurement of the Direct <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>\hat{I}^{\pm}</mml:mi></mml:mrow></mml:math> Decay from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:multiscripts><mml:mrow><mml:mi>C</mml:mi></mml:mrow></mml:mrow></mml:math> /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:multiscripts></mml:mrow></mml:math> Ho <sup>15</sup>O+\hat{I}^{\pm} resonant elastic scattering to study cluster states in <sup>19</sup>Ne. Journal of Physics: Conference Series, 2017, 863, 012026. In-beam <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>\hat{I}^3</mml:mi></mml:math> -ray spectroscopy of the neutron-rich platinum isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:multiscripts><mml:mi>Pt</mml:mi><mml:mprescripts /><mml:none /><mml:mn>200</mml:mn></mml:multiscripts></mml:math> toward the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math>}	2.9	22
24	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:multiscripts><mml:mrow><mml:mi>C</mml:mi></mml:mrow></mml:mrow></mml:math> /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:multiscripts></mml:mrow></mml:math>	7.8	55
25	Ho ¹⁵O+ \hat{I}^{\pm} resonant elastic scattering to study cluster states in ¹⁹Ne. Journal of Physics: Conference Series, 2017, 863, 012026. In-beam <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi> \hat{I}^3 </mml:mi></mml:math> -ray spectroscopy of the neutron-rich platinum isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:multiscripts><mml:mi>Pt</mml:mi><mml:mprescripts /><mml:none /><mml:mn>200</mml:mn></mml:multiscripts></mml:math> toward the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math>	0.4	0
26	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi> \hat{I}^3 </mml:mi></mml:math> -ray spectroscopy of the neutron-rich platinum isotope <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:multiscripts><mml:mi>Pt</mml:mi><mml:mprescripts /><mml:none /><mml:mn>200</mml:mn></mml:multiscripts></mml:math> toward the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math>	2.9	12
27	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math> Evidence for $^{15}\text{O}+\hat{I}^{\pm}$ resonance structures in ^{19}Ne via direct measurement. Physical Review C, 2017, 96, , .	2.9	21
28	Nuclear Clusters in Astrophysics. , 2017, , .		0
29	Beautiful clusters \hat{a} “ boron-9: simulations and decay. Journal of Physics: Conference Series, 2017, 863, 012023.	0.4	0
30	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
31	High multiplicity \hat{I}^{\pm} -particle breakup measurements to study \hat{I}^{\pm} -condensate states. Journal of Physics: Conference Series, 2017, 863, 012070.	0.4	1
32	Oxygen-15+ \hat{I}^{\pm} resonant elastic scattering to study cluster states in ¹⁹Ne. Journal of Physics: Conference Series, 2017, 876, 012021.	0.4	0
33	Investigating Artefacts Associated with \hat{I}^{\pm} Particle Interactions in Charge Coupled Devices. , 2017, , .		0
34	Alpha clustering in Ti isotopes: $^{40,44,48}\text{Ca} + \hat{I}^{\pm}$ resonant scattering. EPJ Web of Conferences, 2016, 113, 08002.	0.3	0
35	Evidence for a 3.8 MeV state in ^{9}Be . Physical Review C, 2016, 94, , .	2.9	2
36	Experimental study of high-lying states in ^{28}Mg using the resonant elastic scattering of \hat{I}^{\pm} particles. Physical Review C, 2016, 94, , .	2.9	2

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37	To the Hoyle state and beyond. AIP Conference Proceedings, 2015, , .	0.4	0
38	Over half a century of studying carbon-12. Journal of Physics: Conference Series, 2015, 639, 012003.	0.4	1
39	Breakup branches of Borromean beryllium-9. AIP Conference Proceedings, 2015, , .	0.4	4
40	Spectroscopy of narrow, high-lying, low-spin states in ^{20}Ne . Physical Review C, 2015, 91, .	2.9	10
41	Space-time copy of ^{20}B via high-resolution ejectile-tagged recoil break-up. Physical Review C, 2015, 91, .	2.9	5
42	Who plays in the Hoyle band?. EPJ Web of Conferences, 2014, 66, 03046.	0.3	2
43	Study of shape transition in the neutron-rich Os isotopes. EPJ Web of Conferences, 2014, 66, 02057.	0.3	0
44	Energy levels of ^{18}F from the $^{14}\text{N}(\alpha, n)^{17}\text{O}$ resonant reaction. Physical Review C, 2014, 90, .	2.9	10
45	States at high excitation in ^{12}C from the $^{12}\text{C}(\text{He}^3, \text{He}^3)\alpha$ reaction. Physical Review C, 2014, 90, .	2.9	9
46	Evidence for Triangular Symmetry in ^{12}C . Physical Review C, 2014, 90, .	7.8	178
47	Spectroscopy of ^{196}Os . Physical Review C, 2014, 90, .	2.9	23
48	Alpha clustering in ^{18}F . Journal of Physics: Conference Series, 2014, 569, 012053.	0.4	2
49	To condense, or not to condense, that is the question. Journal of Physics: Conference Series, 2014, 569, 012010.	0.4	1
50	The thick target inverse kinematics technique with a large acceptance silicon detector array. Journal of Physics: Conference Series, 2014, 569, 012052.	0.4	6
51	A newly observed state in ^{12}C characterisation and consequences. Journal of Physics: Conference Series, 2014, 569, 012071.	0.4	0
52	The Rotation-Vibration Structure of ^{12}C . Journal of Physics: Conference Series, 2014, 569, 012011.	0.4	1
53	Yield measurements for resonances above the multi- α threshold in ^{12}C . Physical Review C, 2013, 87, .	2.9	6
54	Precision measurement of the 9.641 MeV, 3α state in ^{12}C . Physical Review C, 2013, 87, .	2.9	18

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55	$^{13}\text{C}+^4\text{He}$ resonant elastic scattering on a thick gas target. Journal of Physics: Conference Series, 2013, 436, 012020.	0.4	0
56	Absolute partial decay branching-ratios in ^{16}O . Journal of Physics: Conference Series, 2013, 436, 012017.	0.4	1
57	Exotic cluster structure in light nuclei. Journal of Physics: Conference Series, 2013, 420, 012080.	0.4	1
58	$^{13}\text{C}+^4\text{He}$ resonant elastic scattering on a thick gas target. , 2012, , .		0
59	Search for three- α states around an ^{16}O core in ^{28}Si . Physical Review C, 2012, 86, .	2.9	9
60	Absolute decay width measurements in ^{16}O . Journal of Physics: Conference Series, 2012, 381, 012078.	0.4	0
61	Absolute partial decay-branch measurements in ^{13}C . Physical Review C, 2012, 86, .	2.9	13
62	High-resolution measurement of absolute Γ_{α} -decay widths in ^{16}O . Physical Review C, 2011, 83, .	2.9	23
63	Structures in ^{20}O from the $^{14}\text{C}(^7\text{Li}, p)$ reaction at 44 MeV. European Physical Journal A, 2011, 47, 1.	2.5	13
64	Gas-like state of ^{16}O clusters around ^{16}O	2.9	22
65	Analysis of states in ^{13}C populated in $^9\text{Be}+^4\text{He}$ resonant scattering. Physical Review C, 2011, 84, .	2.9	28
66	THREE- α CLUSTER STATE AROUND ^{40}Ca CORE. International Journal of Modern Physics E, 2011, 20, 1012-1017.	1.0	1
67	Title is missing!. Acta Physica Polonica B, 2011, 42, 747.	0.8	11
68	Molecular and cluster structures in ^{18}O . European Physical Journal A, 2010, 43, 17.	2.5	52
69	Shell model and band structures in ^{19}O . European Physical Journal A, 2010, 46, 345-358.	2.5	11
70	Cluster Structure of ^{12}C and ^{11}Be . Nuclear Physics A, 2010, 834, 621c-626c.	1.5	16
71	Three- α state around ^{40}Ca .	2.9	7
72	THREE α STATE AROUND ^{40}Ca . Modern Physics Letters A, 2010, 25, 1947-1950.	1.2	2

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73	Alpha decay widths of excited states of ^{16}O . Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035103.	3.6	9
74	Neutron decay widths of excited states of ^{11}Be . Physical Review C, 2009, 79, .	2.9	24
75	Binary reaction decays from $^{24}\text{Mg} + ^{12}\text{C}$. Physical Review C, 2009, 80, .	2.9	25
76	Reaction mechanisms in $^{24}\text{Mg} + ^{12}\text{C}$ and $^{32}\text{S} + ^{24}\text{Mg}$. , 2009, , .		4
77	States in ^{17}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
78	Particle- γ coincidences and coplanarity in the $^{32}\text{S} + ^{24}\text{Mg}$ binary reaction. Nuclear Physics A, 2008, 811, 276-290.	1.5	4
79	Fission and ternary cluster decay of hyper-deformed ^{56}Ni . European Physical Journal A, 2008, 36, 279.	2.5	40
80	BAND STRUCTURES IN ^{12}Be : EXPERIMENTAL RESULTS. International Journal of Modern Physics E, 2008, 17, 2067-2070.	1.0	16
81	ALPHA-CLUSTER STATES POPULATED IN $^{24}\text{Mg} + ^{12}\text{C}$. International Journal of Modern Physics E, 2008, 17, 2049-2054.	1.0	5
82	Coupling between \hat{I}_{\pm} -condensed states and normal cluster states. Physical Review C, 2008, 77, .	2.9	11
83	Measurement of \hat{I}_{\pm} and neutron decay widths of excited states of ^{14}C . Physical Review C, 2008, 78, .	2.9	33
84	Mixing of di-neutron components in ^{4}He . Physical Review C, 2008, 78, .	2.9	26
85	Structure of ^{10}Be from the $^{12}\text{C}(^{12}\text{C}, ^{14}\text{O})^{10}\text{Be}$ reaction. Physical Review C, 2007, 75, .	2.9	41
86	New assignments for ^{10}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
87	Spectroscopy of ^{17}C and $(sd)^3$ structures in heavy carbon isotopes. European Physical Journal A, 2007, 31, 279-302.	2.5	45
88	Signatures for Multi- \hat{I}_{\pm} -Condensed States. Physical Review Letters, 2006, 96, 192502.	7.8	66
89	Emission of unbound ^8Be and $^{12}\text{C}^*(0+2)$ clusters in compound nucleus reactions. European Physical Journal A, 2005, 23, 19-31.	2.5	47
90	Octupole-deformed molecular bands in ^{21}Ne . European Physical Journal A, 2005, 26, 321-326.	2.5	20

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91	Spectroscopy of Ne and Na isotopes: Preliminary results from a EUROBALL + Binary Reaction Spectrometer experiment. <i>European Physical Journal A</i> , 2005, 25, 431-432.	2.5	3
92	Spectroscopy of Ne, Na and Mg isotopes approaching the Island of Inversion. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1903-S1906.	3.6	7
93	Structure studies of excited states of ^{17}C and ^{16}C . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1461-S1464.	3.6	3
94	Investigation into the structure of ^{14}C using recoil co-incidence techniques. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1921-S1925.	3.6	0
95	Nuclear clusters and structure in light nuclei. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
96	Spectroscopy of ^{40}Ca and negative-parity bands. <i>European Physical Journal A</i> , 2004, 19, 307-317.	2.5	16
97	Search for cluster structure of excited states in ^{14}C . <i>European Physical Journal A</i> , 2004, 21, 193-215.	2.5	76
98	Particle-hole structures of neutron-rich Be- and C-isotopes. <i>Nuclear Physics A</i> , 2004, 734, 345-348.	1.5	22
99	Search for $^{12}\text{C}+^{12}\text{C}$ molecule in $^{24}\text{Mg}^*$ populated by $^{24}\text{Mg}+^{12}\text{C}$. <i>Nuclear Physics A</i> , 2004, 734, 453-456.	1.5	10
100	Structure of neutron-rich beryllium and carbon isotopes. <i>Nuclear Physics A</i> , 2004, 738, 333-336.	1.5	13
101	Structure Studies of Neutron-Rich Beryllium and Carbon Isotopes. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2003, 18, 179-184.	0.4	11
102	Structure studies of neutron-rich beryllium and carbon isotopes. <i>Nuclear Physics A</i> , 2003, 722, C3-C9.	1.5	22
103	A study of \hat{I}^3 decays and octupole bands in ^{21}Ne and ^{21}Na . <i>Physics of Atomic Nuclei</i> , 2003, 66, 1428-1433.	0.4	3
104	Structure of neutron-rich Be and C isotopes. <i>Physics of Atomic Nuclei</i> , 2003, 66, 1494-1500.	0.4	21
105	Spectroscopy of particle-hole states of ^{16}C . <i>Physical Review C</i> , 2003, 68, .	2.9	35
106	Gamma-decay study of ^{21}Na and ^{21}Ne , octupole bands in ^{21}Ne . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003, 29, 509-519.	3.6	17
107	Hyperfine splitting and isotope shift in the optical transition of Eu isotopes and electromagnetic moments of Eu. <i>European Physical Journal D</i> , 2000, 11, 341-345.	1.3	13