

Florin Rotaru

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

872
citations

623734

14
h-index

552781

26
g-index

89
all docs

89
docs citations

89
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	3.9	114
2	Prolate-Spherical Shape Coexistence at $N < 28$ in S . Physical Review Letters, 2010, 105, 102501.	7.8	88
3	A proton density bubble in the doubly magic ^{34}Si nucleus. Nature Physics, 2017, 13, 152-156.	16.7	76
4	Unveiling the intruder deformed ^{34}Si nucleus. Physical Review Letters, 2012, 109, 092503.	7.8	66
5	An above-barrier narrow resonance in ^{15}F . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 26-31.	4.1	31
6	Spectroscopy of ^{26}F to Probe Proton-Neutron Forces Close to the Drip Line. Physical Review Letters, 2013, 110, 082502.	7.8	24
7	Structure of ^{23}Al from the one-proton breakup reaction and astrophysical implications. Physical Review C, 2011, 84, .	2.9	23
8	Coulomb excitation of ^{44}Ca and ^{44}Ar . Physical Review C, 2016, 93, .	2.9	18
9	Identification of the crossing point at ^{72}Zn between normal and intruder configurations. Physical Review C, 2017, 95, .	2.9	17
10	Identification of the crossing point at ^{72}Zn between normal and intruder configurations. Physical Review C, 2017, 95, .	2.9	17
11	Spectroscopy of ^{35}P using the one-proton knockout reaction. Physical Review C, 2016, 93, .	2.9	16
12	Spectroscopy of ^{18}Na : Bridging the two-proton radioactivity of ^{19}Mg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 198-202.	4.1	15
13	Nuclear structure studies of ^{24}F . Physical Review C, 2015, 92, .	2.9	15
14	Evolution of deformation in neutron-rich Ba isotopes up to ^{150}Ba . Physical Review C, 2018, 97, .	2.9	15
15	Half-life and excitation energy of the ^{150}Ba nucleus. Physical Review C, 2018, 97, .	2.9	14
16	Beta-delayed proton emission from ^{20}Mg . European Physical Journal A, 2016, 52, 1.	2.5	14
17	I^{π} decay studies of n-rich Cs isotopes with the ISOLDE Decay Station. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054002.	3.6	14
18	Low-lying single-particle structure of ^{17}C and the $N = 14$ sub-shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135939.	4.1	12

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19	Automatic multi-threshold image segmentation using metaheuristic algorithms. , 2015, , .		11
20	Neutron-rich nuclei produced at zero degrees in damped collisions induced by a beam of 18O on a 238U target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 456-459.	4.1	11
21	Competition between Allowed and First-Forbidden β Decay: The Case of ^{208}Tl	2.9	11
22	Octupole states in ^{207}Tl studied through β decay. Physical Review C, 2020, 101, .	7.8	11
23	Nearly degenerate isomeric states of ^{75}Cu . Physical Review C, 2016, 94, .	2.9	11
24	Detailed spectroscopy of doubly magic ^{132}Sn . Physical Review C, 2020, 102, .	2.9	10
25	3D Breast Shape Reconstruction for a Non-Invasive Early Cancer Diagnosis System. , 2007, , .		9
26	Image enhancement by multiobjective optimization and bio-inspired heuristics. , 2017, , .		9
27	\hat{I}^2 decay of $\text{In}133$: \hat{I}^3 emission from neutron-unbound states in $\text{Sn}133$. Physical Review C, 2019, 99, .	2.9	9
28	Inertial Data Based Learning Methods for Person Authentication. , 2021, , .		9
29	Spectroscopy of $\text{Na}28$: Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8
30	Fast-timing study of the l -forbidden β decay in ^{207}Tl . Physical Review C, 2016, 93, .	2.9	8
31	Emotion recognition in audio records. , 2013, , .		7
32	Study of the Neutron-rich Isotope ^{46}Ar Through Intermediate Energy Coulomb Excitation. Acta Physica Polonica B, 2014, 45, 199.	0.8	7
33	Image processing by means of some bio-inspired optimization algorithms. , 2015, , .		7
34	Spectroscopy of neutron-deficient nuclei around ^{36}Ca . European Physical Journal: Special Topics, 2007, 150, 89-91.	2.6	6
35	Parallel image registration using bio-inspired computing. , 2013, , .		6

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37	High precision measurement of the ^{19}Ne β^- -decay half-life using real-time digital acquisition. Physical Review C, 2017, 96, .	2.9	6
38	Investigation of the $I^{\pi} \rightarrow \pi^{\pi}$ selection rule in Gamow-Teller transitions: The β^- -decay of ^{207}Hg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 271-275.	4.1	6
39	Competition between allowed and first-forbidden β^- -decays of ^{33}S and the magicity of the $Z=2$ shell. Physical Review C, 2019, 100, 014307.	2.9	6
40	β^- -decay of ^{208}At and expansion of the $Z=82$ shell. Physical Review C, 2019, 100, 014308.	2.9	6
41	New optic disc localization method for retinal images. , 2013, , .		5
42	Video processing for rat behavior analysis. , 2017, , .		5
43	β^- -decay spectroscopy of ^{135}In and new β^- -decay branches of ^{135}In . Physical Review C, 2012, 86, .	2.9	5
44	Cross sections for one-neutron knock-out from ^{37}Ca at intermediate energy. Physical Review C, 2012, 86, .	2.9	4
45	Acoustic analysis methodology on Romanian language vowels for different emotional states. , 2013, , .		4
46	Gamma Spectroscopy of Low-energy Isomeric States in Neutron-rich Nuclei: ^{75}Cu . Acta Physica Polonica B, 2013, 44, 637.	0.8	4
47	Retinal vessel labeling method. , 2015, , .		4
48	Tree-Based Classifiers on Human Locomotion Statistical Parameters. , 2019, , .		4
49	Probing nuclear forces beyond the nuclear drip line: the cases of ^{16}F and ^{15}F . European Physical Journal A, 2021, 57, 1.	2.5	4
50	Spectroscopy of neutron-deficient nuclei around ^{36}Ca . AIP Conference Proceedings, 2006, , .	0.4	3
51	Production of neutron-rich fragments with neutron number $N > N_{\text{projectile}}$ in the reaction $^{48}\text{Ca} (60 \text{ TJ ETQq1 } 1.0784314 \text{ rgBT}_3 / \text{Overlook}$		3
52	Adaptive recognition method for 2D polygonal objects. , 2011, , .		3
53	Parallel approach for multifocus image fusion. , 2013, , .		3
54	Social behavior in bacterial foraging optimization algorithm for image registration. , 2014, , .		3

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55	Properties of low-lying intruder states in ^{34}Al and ^{34}Si populated in the beta-decay of ^{34}Mg . , 2015, , .		3
56	Black Hole vs Particle Swarm Optimization. , 2018, , .		3
57	Decay studies of the long-lived states in ^{186}Tl . Physical Review C, 2020, 102, .	2.9	3
58	Optic Disc Localization in Retinal Images. Advances in Intelligent Systems and Computing, 2013, , 453-463.	0.6	3
59	SPECTROSCOPY OF THE UNBOUND NUCLEUS ^{18}Na . International Journal of Modern Physics E, 2011, 20, 971-975.	1.0	2
60	Vascular bifurcations and crossovers detection and processing in retinal images. , 2015, , .		2
61	Image Enhancement using Chaotic Maps and Bio-inspired Multi-objective Optimization. , 2019, , .		2
62	Animal Tracking Method Used in Neuroscience Experiments. , 2020, , .		2
63	Coulomb and nuclear excitations of ^{70}Zn and ^{68}Ni at intermediate energy. Physical Review C, 2021, 104, .	2.9	2
64	Morphological Wavelets for Panchromatic and Multispectral Image Fusion. Advances in Intelligent Systems and Computing, 2013, , 573-583.	0.6	2
65	3D pose computation in robot vision applications. , 2010, , .		1
66	New optic disc localization approach in retinal images. , 2013, , .		1
67	Study of the neutron rich sulfur isotope ^{43}S through intermediate energy Coulomb excitation. Journal of Physics: Conference Series, 2013, 413, 012030.	0.4	1
68	Single-particle Strength in Neutron-rich ^{69}Cu . Acta Physica Polonica B, 2014, 45, 243.	0.8	1
69	Total reaction cross sections measurement for ^6He and ^8Li nuclei with energies of $(25\text{--}45)\text{A MeV}$ on natAl and natPb . Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 223-226.	0.6	1
70	Performance analysis of Artificial Bee Colony optimization algorithm. , 2017, , .		1
71	Retinal Vessel Classification Technique. Advances in Intelligent Systems and Computing, 2018, , 498-514.	0.6	1
72	Data Clustering by Nature-inspired Algorithms and Chaotic Maps. , 2019, , .		1

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73	Deep Learning Based Human Locomotion Recognition in Video Sequences. , 2020, , .		1
74	A broad energy range (100 MeVâ€“10 GeV) electron spectrometer for high power laser wakefield acceleration experiments. AIP Advances, 2020, 10, .	1.3	1
75	Human Activity Recognition using Inertial Data. , 2021, , .		1
76	Optic Disc Recognition Method for Retinal Images. Advances in Intelligent Systems and Computing, 2016, , 875-889.	0.6	1
77	Study of exotic decay of Cs isotope close to the proton drip line. Journal of Physics: Conference Series, 2020, 1643, 012127.	0.4	1
78	Nature-Inspired Metaheuristics for High-Dimensional Data Clustering. , 2020, , .		1
79	Astrophysically Important Reaction Rates For Novae And X-ray Bursts From Proton Breakup At Intermediate Energies. , 2010, , .		0
80	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
81	Low energy isomeric levels of nuclei near N=40. Journal of Physics: Conference Series, 2013, 413, 012036.	0.4	0
82	Shape coexistence at N=20 and N=28: Study of 02+ states in 34Si and 44S. , 2014, , .		0
83	Retinal vessel labeling technique. , 2017, , .		0
84	Measurement of ¹⁹ Ne spectroscopic properties via a new method of inelastic scattering to study novae. Journal of Physics: Conference Series, 2018, 940, 012003.	0.4	0
85	Reaction studies with an almost total absorption gamma spectrometer. AIP Conference Proceedings, 2019, , .	0.4	0
86	Break-up reactions of 6Li, 7Be and 8B. Eurasian Journal of Physics and Functional Materials, 2019, 3, 124-133.	0.6	0
87	Design and commissioning of a neutron counter adapted to high-intensity laser matter interactions. Review of Scientific Instruments, 2021, 92, 113303.	1.3	0