

Florin Rotaru

List of Publications by Year in descending order

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87
papers

872
citations

623734

14
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552781

26
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all docs

89
docs citations

89
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Human Activity Recognition using Inertial Data. , 2021, , . Competition between allowed and first-forbidden β decays of ^{208}Tl		1
3	β decays of ^{208}Tl and expansion of the structure of ^{208}Tl	2.9	6
4	Inertial Data Based Learning Methods for Person Authentication. , 2021, , .		9
5	Coulomb and nuclear excitations of ^{70}Zn and ^{68}Ni at intermediate energy. Physical Review C, 2021, 104, First β -decay spectroscopy of ^{135}La	2.9	2
6	and new β -decay branches of ^{135}La	2.9	5
7	Design and commissioning of a neutron counter adapted to high-intensity laser matter interactions. Review of Scientific Instruments, 2021, 92, 113303.	1.3	0
8	Low-lying single-particle structure of ^{17}C and the ϵ^{-14} sub-shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135939.	4.1	12
9	Detailed spectroscopy of doubly magic ^{132}Sn	2.9	10
10	Structure of ^{132}Sn and the magicity of the ^{132}Sn	2.9	6
11	Decay studies of the long-lived states in ^{186}Re	2.9	3
12	Animal Tracking Method Used in Neuroscience Experiments. , 2020, , .		2
13	Deep Learning Based Human Locomotion Recognition in Video Sequences. , 2020, , . Competition between Allowed and First-Forbidden β Decay: The Case of ^{208}Tl		1
14	Octupole states in ^{207}Tl	7.8	11
15	studied through β decay. Physical Review C, 2020, 101, , .	2.9	11
16	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	3.9	114
17	A broad energy range (100 MeV \sim 10 GeV) electron spectrometer for high power laser wakefield acceleration experiments. AIP Advances, 2020, 10, .	1.3	1
18	Study of exotic decay of Cs isotope close to the proton drip line. Journal of Physics: Conference Series, 2020, 1643, 012127.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Nature-Inspired Metaheuristics for High-Dimensional Data Clustering. , 2020, , .		1
20	Image Enhancement using Chaotic Maps and Bio-inspired Multi-objective Optimization. , 2019, , .		2
21	Normal and intruder configurations in ^{34}Si populated in the ^{29}Mg decay of ^{34}Si		11
22	Investigation of the ^{17}Mg selection rule in Gamow-Teller transitions: The β^2 -decay of ^{207}Hg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 271-275.	4.1	6
23	Reaction studies with an almost total absorption gamma spectrometer. AIP Conference Proceedings, 2019, , .	0.4	0
24	β^2 decay of ^{133}In : β^3 emission from neutron-unbound states in ^{133}Sn . Physical Review C, 2019, 99, .	2.9	9
25	Tree-Based Classifiers on Human Locomotion Statistical Parameters. , 2019, , .		4
26	Data Clustering by Nature-inspired Algorithms and Chaotic Maps. , 2019, , .		1
27	Break-up reactions of ^6Li , ^7Be and ^8B . Eurasian Journal of Physics and Functional Materials, 2019, 3, 124-133.	0.6	0
28	Evolution of deformation in neutron-rich Ba isotopes up to ^{150}Ba . Physical Review C, 2018, 97, .	2.9	15
29	Retinal Vessel Classification Technique. Advances in Intelligent Systems and Computing, 2018, , 498-514.	0.6	1
30	Black Hole vs Particle Swarm Optimization. , 2018, , .		3
31	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
32	Neutron-rich nuclei produced at zero degrees in damped collisions induced by a beam of ^{18}O on a ^{238}U target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 456-459.	4.1	11
33	β^2 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
34	Identification of the crossing point at ^{21}N between normal and intruder configurations. Physical Review C, 2017, 95, .	2.1	21
35	Performance analysis of Artificial Bee Colony optimization algorithm. , 2017, , .		1
36	Image enhancement by multiobjective optimization and bio-inspired heuristics. , 2017, , .		9

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37	A proton density bubble in the doubly magic ^{34}Si nucleus. Nature Physics, 2017, 13, 152-156.	16.7	76
38	High precision measurement of the ^{19}F -decay half-life using real-time digital acquisition. Physical Review C, 2017, 96, .	2.9	6
39	Retinal vessel labeling technique. , 2017, , .		0
40	Video processing for rat behavior analysis. , 2017, , .		5
41	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
42	Nearly degenerate isomeric states of ^{67}Zn . Physical Review C, 2016, 94, .	2.9	10
43	Beta-delayed proton emission from ^{20}Mg . European Physical Journal A, 2016, 52, 1.	2.5	14
44	Spectroscopy of ^{35}P using the one-proton knockout reaction. Physical Review C, 2016, 93, .	2.9	16
45	Fast-timing study of the ^{20}F -forbidden ^{20}F in ^{20}F . Physical Review C, 2016, 93, .	2.9	8
46	Coulomb excitation of ^{44}Ca and ^{46}Ar . Physical Review C, 2016, 93, .	2.9	18
47	Total reaction cross sections measurement for $^{6,8}\text{He}$ and $^{8,9}\text{Li}$ nuclei with energies of $(25 \leq E < 45) \text{ A MeV}$ on natAl and natPb. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 223-226.	0.6	1
48	Optic Disc Recognition Method for Retinal Images. Advances in Intelligent Systems and Computing, 2016, , 875-889.	0.6	1
49	Nuclear structure studies of ^{24}F . Physical Review C, 2015, 92, .	2.9	15
50	Spectroscopy of ^{28}Na : Shell evolution toward the drip line. Physical Review C, 2015, 92, .	2.9	8
51	Properties of low-lying intruder states in ^{34}Al and ^{34}Si populated in the beta-decay of ^{34}Mg . , 2015, , .		3
52	Retinal vessel labeling method. , 2015, , .		4
53	Image processing by means of some bio-inspired optimization algorithms. , 2015, , .		7
54	Vascular bifurcations and crossovers detection and processing in retinal images. , 2015, , .		2

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55	Automatic multi-threshold image segmentation using metaheuristic algorithms. , 2015, , .		11
56	Single-particle Strength in Neutron-rich ^{69}Cu . Acta Physica Polonica B, 2014, 45, 243.	0.8	1
57	Study of the Neutron-rich Isotope ^{46}Ar Through Intermediate Energy Coulomb Excitation. Acta Physica Polonica B, 2014, 45, 199.	0.8	7
58	Social behavior in bacterial foraging optimization algorithm for image registration. , 2014, , .		3
59	Shape coexistence at N=20 and N=28: Study of 02+ states in ^{34}Si and ^{44}S . , 2014, , .		0
60	New optic disc localization method for retinal images. , 2013, , .		5
61	New optic disc localization approach in retinal images. , 2013, , .		1
62	Parallel image registration using bio-inspired computing. , 2013, , .		6
63	Emotion recognition in audio records. , 2013, , .		7
64	Acoustic analysis methodology on Romanian language vowels for different emotional states. , 2013, , .		4
65	Spectroscopy of F^{26} to Probe Proton-Neutron Forces Close to the Drip Line. Physical Review Letters, 2013, 110, 082502.	7.8	24
66	Parallel approach for multifocus image fusion. , 2013, , .		3
67	Gamma Spectroscopy of Low-energy Isomeric States in Neutron-rich Nuclei: ^{75}Cu . Acta Physica Polonica B, 2013, 44, 637.	0.8	4
68	Study of the neutron rich sulfure isotope ^{43}S through intermediate energy Coulomb excitation. Journal of Physics: Conference Series, 2013, 413, 012030.	0.4	1
69	Low energy isomeric levels of nuclei near N=40. Journal of Physics: Conference Series, 2013, 413, 012036.	0.4	0
70	Morphological Wavelets for Panchromatic and Multispectral Image Fusion. Advances in Intelligent Systems and Computing, 2013, , 573-583.	0.6	2
71	Optic Disc Localization in Retinal Images. Advances in Intelligent Systems and Computing, 2013, , 453-463.	0.6	3
72	Unveiling the Intruder Deformed ^{34}Si . Physical Review Letters, 2012, 109, 092503.	7.8	66

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73	Cross sections for one-neutron knock-out from ^{37}Ca at intermediate energy. Physical Review C, 2012, 86	2.9	4
74	First direct lifetime measurement of the 2^+ state in ^{72}Zn . New evidence for a shape transition between ^{72}Zn and ^{74}Zn . 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.	2.9	17
75	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
76	Structure of ^{23}Al from the one-proton breakup reaction and astrophysical implications. Physical Review C, 2011, 84, .	2.9	23
77	Adaptive recognition method for 2D polygonal objects. , 2011, , .		3
78	SPECTROSCOPY OF THE UNBOUND NUCLEUS ^{18}Na . International Journal of Modern Physics E, 2011, 20, 971-975.	1.0	2
79	Astrophysically Important Reaction Rates For Novae And X-ray Bursts From Proton Breakup At Intermediate Energies. , 2010, , .		0
80	Production of neutron-rich fragments with neutron number $N_{\text{projectile}}$ in the reaction $^{48}\text{Ca} + ^{60}\text{Tf} \rightarrow ^{10}\text{Tf} + \dots$	3.6	3
81	3D pose computation in robot vision applications. , 2010, , .		1
82	Prolate-Spherical Shape Coexistence at $N=28$ in ^{88}Sr . Physical Review Letters, 2010, 105, 102501.	7.8	88
83	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
84	Half-life and excitation energy of the ^{14}I in ^{14}I . Physical Review C, 2008, 77, .	2.9	14
85	3D Breast Shape Reconstruction for a Non-Invasive Early Cancer Diagnosis System. , 2007, , .		9
86	Spectroscopy of neutron-deficient nuclei around ^{36}Ca . European Physical Journal: Special Topics, 2007, 150, 89-91.	2.6	6
87	Spectroscopy of neutron-deficient nuclei around ^{36}Ca . AIP Conference Proceedings, 2006, , .	0.4	3