

Ushasi Datta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1529186/publications.pdf>

Version: 2024-02-01

79
papers

2,510
citations

279798

23
h-index

189892

50
g-index

79
all docs

79
docs citations

79
times ranked

1371
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear symmetry energy and neutron skins derived from pygmy dipole resonances. Physical Review C, 2007, 76, .	2.9	334
2	Evidence for Pygmy and Giant Dipole Resonances in Sn130 and Sn132. Physical Review Letters, 2005, 95, 132501.	7.8	327
3	Photoneutron Cross Sections for Unstable Neutron-Rich Oxygen Isotopes. Physical Review Letters, 2001, 86, 5442-5445.	7.8	190
4	Measurement of the Dipole Polarizability of the Unstable Neutron-Rich Nucleus ^{68}Ni . Physical Review Letters, 2013, 111, 242503.	7.8	155
5	Systematic investigation of the drip-line nuclei ^{11}Li and ^{14}Be and their unbound subsystems ^{10}Li and ^{13}Be . Nuclear Physics A, 2007, 791, 267-302.	1.5	113
6	Coulomb breakup of the neutron-rich isotopes ^{15}C and ^{17}C . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 551, 63-70.	4.1	105
7	Sub-Barrier Coulomb Excitation of ^{110}Sn and Its Implications for the ^{100}Sn Shell Closure. Physical Review Letters, 2007, 98, .	7.8	94
8	Beyond the neutron drip line: The unbound oxygen isotopes ^{25}O and ^{26}O . Physical Review C, 2013, 88, .	2.9	93
9	Lithium isotopes beyond the drip line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 430-434.	4.1	79
10	Shell Structure of the Near-Dripline Nucleus ^{23}O . Physical Review Letters, 2004, 93, 062501.	7.8	78
11	Channel coupling effects on the fusion excitation functions for $^{28}\text{Si} + ^{90}\text{Zr}$. Physical Review Letters, 2010, 105, 152501.	2.9	66
12	The unbound isotopes ^9He , ^{10}He . Nuclear Physics A, 2010, 842, 15-32.	1.5	64
13	Experimental evidence for the 8B ground state configuration. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 529, 36-41.	4.1	62
14	Properties of the 7He ground state from 8He neutron knockout. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 191-196.	4.1	50
15	Coulomb breakup of ^{23}O . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 605, 79-86.	4.1	49
16	Three-body correlations in the decay of ^{10}He and ^{13}Li . Nuclear Physics A, 2010, 847, 66-88.	1.5	47
17	$^7\text{Li} + ^{12}\text{C}$ and $^7\text{Li} + ^{13}\text{C}$ fusion reactions at subbarrier energies. Nuclear Physics A, 1996, 596, 299-328.	1.5	35
18	Structure of the unbound nucleus ^{13}Be : One-neutron knockout reaction data from ^{14}Be analyzed in a holistic approach. Physical Review C, 2013, 87, .	2.9	34

#	ARTICLE	IF	CITATIONS
19	Structure of C : Testing shell model and <i>ab initio</i> approaches. Physical Review C, 2012, 86, .	2.9	32
20	Evidence for octupole correlation and chiral symmetry breaking in Cs . Physical Review C, 2015, 92, .	2.9	31
21	Momentum profile analysis in one-neutron knockout from Borromean nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1309-1313.	4.1	28
22	Dipole response of neutron-rich Sn isotopes. Nuclear Physics A, 2007, 788, 145-152.	1.5	25
23	Multinucleon transfer reactions for the $SiZr$. Physical Review C, 2017, 96, .	2.9	25
24	Structure of the As, Ge, Ga nuclei. Nuclear Physics A, 2012, 893, 1-12.	1.5	22
25	High spin structure of ^{35}Cl and the $\nu f_7/2$ shell gap. Nuclear Physics A, 2007, 781, 277-295.	1.5	21
26	NeuLAND: The high-resolution neutron time-of-flight spectrometer for R3B at FAIR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1014, 165701.	1.6	19
27	Dipole excitations of neutron-proton asymmetric nuclei. Nuclear Physics A, 2004, 731, 235-248.	1.5	17
28	Band structures in near spherical ^{138}Ce . Nuclear Physics A, 2009, 825, 16-38.	1.5	17
29	Thermonuclear reaction $S_{30}(p, ^3He)Cl_{31}$ studied via Coulomb breakup of Cl_{31} . Physical Review C, 2014, 89, .	2.9	15
30	Quasifree $(Tj)ETQ_{000}rgBT/Overlock10Tf50317Td$. Physical Review C, 2018, 97, .	2.9	15
31	Multi-quasiparticle bands in Ce_{137} . Physical Review C, 2008, 78, .	2.9	14
32	Effective proton-neutron interaction near the drip line from unbound states in F . Physical Review C, 2017, 96, .	2.9	14
33	Continuum: Identification and Structure of its Second Be State. Physical Review Letters, 2013, 111, 242501.	7.8	13
34	Structure of odd ^{136}La at high spin. Nuclear Physics A, 2005, 750, 199-217.	1.5	12
35	Study of spectroscopic factors at $N=29$ using isobaric analogue resonances in inverse kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 155-160.	4.1	12
36	Systematic investigation of projectile fragmentation using beams of unstable B and C isotopes. Physical Review C, 2016, 93, .	2.9	11

#	ARTICLE	IF	CITATIONS
37	Levels in doubly odd 138Pr. European Physical Journal A, 2005, 24, 173-178.	2.5	10
38	Search for resonances in 4n, 7H and 9He via transfer reactions. AIP Conference Proceedings, 2007, , .	0.4	10
39	Seven-quasiparticle bands in ^{139}Ce . Physical Review C, 2009, 79, .	2.9	10
40	Direct experimental evidence for a multiparticle-hole ground state configuration of deformed ^{33}Mg . Physical Review C, 2016, 94, .	2.9	10
41	Determination of the neutron-capture rate of C17 for r -process nucleosynthesis. Physical Review C, 2017, 95, .	2.9	10
42	$^{128,130,132,134}\text{La}$ in the axially symmetric rotor model. Physical Review C, 1995, 52, 117-128.	2.9	9
43	$^{13,14}\text{B}(n, \hat{p}^3)$ via Coulomb Dissociation for Nucleosynthesis towards the r-Process. Nuclear Data Sheets, 2014, 120, 197-200.	2.2	9
44	Strong Neutron Pairing in core+4n Nuclei. Physical Review Letters, 2018, 120, 152504.	7.8	9
45	Structure of ^{13}Be studied in proton knockout from ^{14}B . Physical Review C, 2013, 88, .	2.9	9
46	Shape evolution in ^{123}Cs and ^{124}Ba nuclei. Physical Review C, 2013, 88, .	2.9	8
47	Coulomb dissociation of ^{20}N . Physical Review C, 2016, 93, .	2.9	8
48	One-neutron knockout of ^{230}O . European Physical Journal A, 2005, 25, 343-346.	2.5	7
49	Band structure in ^{104}Ag . Zeitschrift für Physik A, 1995, 353, 231-232.	0.9	6
50	Shapes of odd-odd Pr nuclei. Physical Review C, 1996, 54, 1221-1229.	2.9	6
51	Indirect measurement of radiative capture cross sections relevant in astrophysical scenarios. Progress in Particle and Nuclear Physics, 2007, 59, 183-192.	14.4	6
52	Coulomb dissociation of ^{27}P at 500 MeV/u. Physical Review C, 2016, 93, .	2.9	6
53	High-energy breakup of ^8B . Nuclear Physics A, 2003, 718, 431-433.	1.5	5
54	$^{12}\text{C}+p$ resonant elastic scattering in the Maya active target. European Physical Journal A, 2015, 51, 1.	2.5	5

#	ARTICLE	IF	CITATIONS
55	Particle-rotor model analysis of low-spin identical bands in neighboring odd-A and even-even nuclei. <i>Physical Review C</i> , 1994, 50, 1868-1875.	2.9	4
56	Nuclear structure of light exotic nuclei from break-up reactions. <i>Nuclear Physics A</i> , 2004, 746, 479-482.	1.5	4
57	Studies of light neutron-rich nuclei near the drip line. <i>European Physical Journal A</i> , 2005, 25, 339-341.	2.5	4
58	Coulomb excitation of exotic nuclei at the R3B-LAND setup. <i>Journal of Physics: Conference Series</i> , 2013, 420, 012072.	0.4	4
59	Study of Ground State Wave-function of the Neutron-rich $^{29,30}\text{Na}$ Isotopes through Coulomb Breakup. <i>EPJ Web of Conferences</i> , 2014, 66, 02087.	0.3	4
60	Threshold behavior of interaction potential for the system $7\text{Li} + 64\text{Ni}$: Comparison with $6\text{Li} + 64\text{Ni}$. <i>Nuclear Physics A</i> , 2016, 953, 80-94.	1.5	3
61	Coulomb breakup of neutron-rich $^{29,30}\text{Na}$ isotopes near the island of inversion. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 045101.	3.6	3
62	Neutron capture cross sections of light neutron-rich nuclei relevant for r -process nucleosynthesis. <i>Physical Review C</i> , 2021, 104, .	2.9	3
63	Ground-state configuration of neutron-rich ^{35}Al via Coulomb breakup. <i>Physical Review C</i> , 2017, 96, .	2.9	3
64	Coulomb breakup of secondary beams of neutron-rich nuclei. <i>Nuclear Physics A</i> , 2004, 738, 45-51.	1.5	2
65	Structure of neutron-rich oxygen isotopes. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1629-S1632.	3.6	2
66	Fusion and transfer reactions around the Coulomb barrier for $^{28}\text{Si} + ^{90,94}\text{Zr}$ systems. <i>Journal of Physics: Conference Series</i> , 2011, 312, 082027.	0.4	2
67	Development of MMRPC prototype for the NeuLAND detector of the R3B collaboration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 661, S149-S152.	1.6	2
68	Exotic decay of hot rotating nuclei near proton drip line. <i>EPJ Web of Conferences</i> , 2014, 66, 02089.	0.3	2
69	Response of multi-strip multi-gap resistive plate chamber. <i>Journal of Instrumentation</i> , 2015, 10, P07005-P07005.	1.2	2
70	Cluster structure near beta-stability and far from stability. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
71	Coulomb breakup of psd-shell neutron-rich nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1583-S1587.	3.6	1
72	Ground-state configuration of neutron-rich Aluminum isotopes through Coulomb Breakup. <i>EPJ Web of Conferences</i> , 2014, 66, 02019.	0.3	1

#	ARTICLE	IF	CITATIONS
73	Measurement of the $^{92,93,94,100}\text{Mo}(\hat{1}^3,n)$ reactions by Coulomb Dissociation. Journal of Physics: Conference Series, 2016, 665, 012034.	0.4	1
74	Structure studies of the exotic nuclei through coulomb dissociation. Progress in Particle and Nuclear Physics, 2001, 46, 319-320.	14.4	0
75	Pygmy Dipole Strength in Exotic Nuclei and the Equation of State. , 2009, , .		0
76	Target dependence in the study of collective modes in stable and exotic Ni nuclei. Journal of Physics: Conference Series, 2010, 202, 012035.	0.4	0
77	Coulomb Dissociation of ^{27}P . Journal of Physics: Conference Series, 2012, 381, 012115.	0.4	0
78	Coulomb Dissociation Experiment of ^{27}P . Acta Physica Polonica B, 2015, 46, 473.	0.8	0
79	Evidence of sterile neutrino from endpoint analysis of $\hat{1}^2$ -spectrum. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125201.	3.6	0