

Marilena Avrigeanu

List of Publications by Year in descending order

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103
papers

2,785
citations

279798

23
h-index

182427

51
g-index

106
all docs

106
docs citations

106
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced breakup-nucleon enhancement of deuteron-induced reaction cross sections. European Physical Journal A, 2022, 58, 1.	2.5	7
2	Validation of an optical potential for incident and emitted low-energy α -particles in the $^{60}\text{Asim}$ mass range. European Physical Journal A, 2021, 57, 1.	2.5	8
3	Deuteron-induced reactions on Zr up to 60 MeV. Physical Review C, 2021, 104, .	2.9	4
4	Consistent analysis of deuteron interactions at low and medium energies. Journal of Physics: Conference Series, 2020, 1555, 012016.	0.4	1
5	Deuteron-induced reactions on manganese at low energies. Physical Review C, 2020, 101, .	2.9	5
6	Charged particle activation facility in NPI CAS and in future GANIL/SPIRAL2-NFS. EPJ Web of Conferences, 2020, 239, 17010.	0.3	1
7	Analysis of empirical parametrization and microscopical studies of deuteron-induced reactions. EPJ Web of Conferences, 2020, 239, 03011.	0.3	1
8	The dark side of alpha-particle optical potential: Emission from excited nuclei. EPJ Web of Conferences, 2020, 239, 03020.	0.3	0
9	Nuclear data activities of the EUROfusion consortium. EPJ Web of Conferences, 2020, 239, 21001.	0.3	3
10	Consistent assessment of deuteron interactions at low and medium energies. AIP Conference Proceedings, 2019, , .	0.4	1
11	Role of consistent parameter sets in an assessment of the ^{12}C -particle optical potential below the Coulomb barrier. Physical Review C, 2019, 99, .	2.9	6
12	Measurements of ^{59}Co deuteron-induced reactions on ^{59}Co and ^{60}Co . Physical Review C, 2019, 99, .	2.9	12
13	On the physics beyond the α -particle optical potential parameters. AIP Conference Proceedings, 2019, , .	0.4	1
14	The role of nuclear data for fusion nuclear technology. Fusion Engineering and Design, 2018, 136, 162-167.	1.9	10
15	The Neutrons for Science Facility at SPIRAL-2. Radiation Protection Dosimetry, 2018, 180, 115-119.	0.8	10
16	Effects of direct interactions on deuteron induced reactions. Journal of Physics: Conference Series, 2018, 1023, 012009.	0.4	3
17	Consistent account of deuteron-induced reactions on Cr up to 60 MeV. Physical Review C, 2018, 98, .	2.9	13
18	The Soreq Applied Research Accelerator Facility (SARAF): Overview, research programs and future plans. European Physical Journal A, 2018, 54, 1.	2.5	75

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19	Additive empirical parametrization and microscopic study of deuteron breakup. Physical Review C, 2017, 95, .	2.9	14
20	Consistent optical potential for incident and emitted low-energy $\hat{1}\pm$ particles. II. $\hat{1}\pm$ emission in fast-neutron-induced reactions on Zr isotopes. Physical Review C, 2017, 96, .	2.9	11
21	Nuclear data for fusion technology – the European approach. EPJ Web of Conferences, 2017, 146, 09003.	0.3	4
22	The neutrons for science facility at SPIRAL-2. EPJ Web of Conferences, 2017, 146, 03003.	0.3	8
23	Uncertainties of $\hat{1}\pm$ -particle optical potential assessment around and below the Coulomb barrier. AIP Conference Proceedings, 2017, . .	0.4	2
24	Role of the direct processes in low-energy deuteron interactions. EPJ Web of Conferences, 2017, 146, 12020.	0.3	3
25	On the synergy of nuclear data for fusion and model assumptions. EPJ Web of Conferences, 2017, 146, 09015.	0.3	1
26	On deuteron interactions within surrogate reactions and nuclear level density studies. Journal of Physics: Conference Series, 2016, 724, 012003.	0.4	6
27	Analysis of uncertainties in $\hat{1}\pm$ -particle optical-potential assessment below the Coulomb barrier. Physical Review C, 2016, 94, .	2.9	16
28	Deuteron-induced reactions on Ni isotopes up to 60 MeV. Physical Review C, 2016, 94, .	2.9	26
29	Consistent optical potential for incident and emitted low-energy $\hat{1}\pm$ particles. Physical Review C, 2015, 91, .	2.9	19
30	Role of breakup and direct processes in deuteron-induced reactions at low energies. Physical Review C, 2015, 92, .	2.9	20
31	On reaction mechanisms involved in the deuteron-induced surrogate reactions. , 2015, , .		3
32	Enhanced $\hat{1}\pm$ -particle optical potential at low energies, for the mass range $A\hat{1}445-209$. AIP Conference Proceedings, 2015, , .	0.4	5
33	Fast-timing lifetime measurements of excited states in Cu . Physical Review C, 2014, 89, .	2.9	16
34	Low energy deuteron-induced reactions on Fe isotopes. Physical Review C, 2014, 89, .	2.9	28
35	Further explorations of the $\hat{1}\pm$ -particle optical model potential at low energies for the mass range $A > 45$. Physical Review C, 2014, 90, .	2.9	105
36	The Activities of the European Consortium on Nuclear Data Development and Analysis for Fusion. Nuclear Data Sheets, 2014, 120, 226-229.	2.2	5

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37	Direct processes effects on deuteron activation cross sections. Journal of Physics: Conference Series, 2014, 533, 012004.	0.4	2
38	Low-energy deuteron-induced reactions on ^{93}Nb . Physical Review C, 2013, 88, .	2.9	27
39	Investigation of deuteron breakup and deuteron-induced fission on actinide nuclei at low incident energies. Physical Review C, 2012, 85, .	2.9	26
40	$\hat{\pi}$ -particle optical potentials for nuclear astrophysics (NA) and nuclear technology (NT). AIP Conference Proceedings, 2012, , .	0.4	1
41	Deuteron-induced reaction mechanisms at low energies. EPJ Web of Conferences, 2012, 21, 07003.	0.3	7
42	On neutron-induced reaction mechanisms at medium energies. EPJ Web of Conferences, 2012, 21, 07004.	0.3	2
43	Isomeric cross sections of fast-neutron-induced reactions on ^{197}Au . Physical Review C, 2012, 85, .	2.9	17
44	The Neutrons for Science Facility at SPIRAL-2. , 2011, , .		2
45	Analysis of $\hat{\pi}$ -induced reactions on ^{151}Eu below the Coulomb barrier. Physical Review C, 2011, 83, .	2.9	3
46	Low and medium energy deuteron-induced reactions on ^{63}Cu and ^{65}Cu . Physical Review C, 2011, 84, .	2.9	43
47	On Low and Medium Energy Deuteron-Induced Reactions on $^{63,65}\text{Cu}$. Journal of the Korean Physical Society, 2011, 59, 1928-1931.	0.7	3
48	Key Issues for Consistent Description of Neutron-induced Reactions on Cr Isotopes. Journal of the Korean Physical Society, 2011, 59, 891-894.	0.7	1
49	Analysis of Deuteron Breakup and Induced Activation on Medium Nuclei. Journal of the Korean Physical Society, 2011, 59, 903-906.	0.7	6
50	$\hat{\pi}$ -particles optical potential for medium and heavy-mass nuclei around the Coulomb barrier. EPJ Web of Conferences, 2010, 2, 02003.	0.3	1
51	Assessment of deuteron-induced reaction mechanisms at low and medium energies. EPJ Web of Conferences, 2010, 2, 01004.	0.3	8
52	$^{65}\text{Cu}(d,p)^{66}\text{Cu}$ excitation function at deuteron energies up to 20 MeV. EPJ Web of Conferences, 2010, 8, 07002.	0.3	4
53	Additional $\hat{\pi}$ -particle optical potential tests below the Coulomb barrier. Physical Review C, 2010, 81, .	2.9	5
54	Improved deuteron elastic breakup energy dependence via the continuum-discretized coupled-channels method. Physical Review C, 2010, 82, .	2.9	23

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55	Deuteron breakup effects on activation cross sections at low and medium energies. Journal of Physics: Conference Series, 2010, 205, 012014.	0.4	13
56	$\hat{\pm}$ -particle nuclear surface absorption below the Coulomb barrier in heavy nuclei. Physical Review C, 2010, 82, .	2.9	54
57	$\hat{\pm}$ -particle optical potential tests below the Coulomb barrier. Physical Review C, 2009, 79, .	2.9	15
58	Analysis of deuteron elastic scattering and induced activation cross-sections of light and medium nuclei for IFMIF EVEDA. Fusion Engineering and Design, 2009, 84, 418-422.	1.9	25
59	RIPL – Reference Input Parameter Library for Calculation of Nuclear Reactions and Nuclear Data Evaluations. Nuclear Data Sheets, 2009, 110, 3107-3214.	2.2	1,119
60	Complementary optical-potential analysis of α -particle elastic scattering and induced reactions at low energies. Atomic Data and Nuclear Data Tables, 2009, 95, 501-532.	2.4	75
61	High-precision α -particle nuclear surface absorption below the Coulomb barrier in heavy nuclei. Physical Review C, 2010, 82, .		

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73	On temperature dependence of the optical potential for alpha-particles at low energies. Nuclear Physics A, 2006, 764, 246-260.	1.5	40
74	Addendum to "Elastic α -scattering on Sn112 and Sn124 at astrophysically relevant energies". Physical Review C, 2006, 73, .	2.9	11
75	Analysis of deuteron elastic scattering on ^6Li up to 50 MeV. Nuclear Physics A, 2005, 759, 327-341.	1.5	30
76	MICROSCOPIC OPTICAL POTENTIAL FOR NUCLEAR TRANSMUTATION, FUSION REACTORS, AND ADS PROJECTS. , 2004, , .		0
77	Optical model potentials for α -particles scattering around the Coulomb barrier on $A \approx 100$ nuclei. Nuclear Physics A, 2003, 723, 104-126.	1.5	72
78	ELASTIC SCATTERING AS A TEST OF DENSITY DISTRIBUTIONS IN ^6He AND ^8He . International Journal of Modern Physics E, 2002, 11, 249-264.	1.0	18
79	Pre-equilibrium "Emission Surface Effects in Activation Reactions. Journal of Nuclear Science and Technology, 2002, 39, 803-806.	1.3	4
80	Two-neutron elastic transfer $^4\text{He}(^6\text{He}, ^4\text{He})^6\text{He}$ at $E = 151$ MeV. European Physical Journal A, 2001, 12, 399-404.	2.5	10
81	Effective interactions for multistep processes. Nuclear Physics A, 2001, 693, 616-629.	1.5	14
82	Light exotic nuclei: A new explanation of halo. Physics of Atomic Nuclei, 2001, 64, 1229-1235.	0.4	0
83	Dynamics of two-neutron transfer reactions on the Borromean nucleus ^6He Here examined. Physical Review C, 2000, 62, .	2.9	24
84	Partial level densities for nuclear data calculations. Computer Physics Communications, 1998, 112, 191-226.	7.5	25
85	Particle-hole state densities with nonequidistant single-particle levels. Physical Review C, 1998, 58, 295-306.	2.9	21
86	Average strength of the effective interaction in multistep direct reactions. Physical Review C, 1997, 56, 1633-1636.	2.9	6
87	Short-range nucleon correlations in the semiclassical nuclear models. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 79-89.	3.6	0
88	Nuclear surface localization of preequilibrium reactions at low energies. Physical Review C, 1996, 54, 2538-2546.	2.9	15
89	Pauli-blocking effects in neutron-alpha reactions. Journal of Physics G: Nuclear and Particle Physics, 1995, 21, 837-846.	3.6	3
90	Energy-dependent single-particle state density effects in the hybrid model of pre-equilibrium nuclear reactions. Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 613-635.	3.6	23

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91	Global optical potentials for emitted alpha particles. Physical Review C, 1994, 49, 2136-2141.	2.9	219
92	The Alpha-Particle Mean Field and Consistent Pre-Equilibrium and Statistical Emission. NATO ASI Series Series B: Physics, 1994, , 99-100.	0.2	0
93	Semiclassical and quantum mechanical pre-equilibrium neutron emission. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 745-756.	3.6	3
94	Nuclear level densities below 40 MeV excitation energy in the mass region $A \approx 50$. Zeitschrift für Physik A, Atomic Nuclei, 1990, 335, 299-313.	0.3	11
95	Consistent exciton state and nuclear level densities. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L261-L267.	3.6	4
96	On the overlap of the pre-equilibrium and direct reaction models. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L241-L247.	3.6	3
97	Pre-equilibrium emission in neutron induced reactions on $^{54,56}\text{Fe}$. Zeitschrift für Physik A, Atomic Nuclei, 1988, 329, 177-187.	0.3	5
98	Level density shell effects in neutron induced reactions on molybdenum isotopes. Radiation Effects, 1986, 95, 211-214.	0.4	2
99	Preequilibrium and statistical model calculations for neutron activation cross sections on titanium isotopes. Radiation Effects, 1986, 95, 207-210.	0.4	0
100	Evidence for a $g_{9/2}$ decoupled band in ^{85}Y . Journal of Physics G: Nuclear Physics, 1981, 7, 667-672.	0.8	13
101	Recoil-distance measurements of the lifetimes of high-spin states in ^{83}Sr and ^{85}Sr . Journal of Physics G: Nuclear Physics, 1981, 7, 399-412.	0.8	21
102	Lifetime measurements in ^{86}Zr . Journal of Physics G: Nuclear Physics, 1978, 4, 261-268.	0.8	15
103	Spectroscopy of the ^{69}Ga and ^{71}Ga isotopes with the $^{66,68}\text{Zn}(\pm, p^3)^{69,71}\text{Ga}$ reactions. Nuclear Physics A, 1974, 225, 357-364.	1.5	16