

# Marilena Avrigeanu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2816918/publications.pdf>

Version: 2024-02-01

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	RIPPL – Reference Input Parameter Library for Calculation of Nuclear Reactions and Nuclear Data Evaluations. Nuclear Data Sheets, 2009, 110, 3107-3214.	2.2	1,119
2	Global optical potentials for emitted alpha particles. Physical Review C, 1994, 49, 2136-2141.	2.9	219
3	Further explorations of the $\hat{V}_{\pm}$ -particle optical model potential at low energies for the mass range $A < 45$ . Physical Review C, 2014, 90, .	2.9	105
4	Complementary optical-potential analysis of $\alpha$ -particle elastic scattering and induced reactions at low energies. Atomic Data and Nuclear Data Tables, 2009, 95, 501-532.	2.4	75
5	The Soreq Applied Research Accelerator Facility (SARAF): Overview, research programs and future plans. European Physical Journal A, 2018, 54, 1.	2.5	75
6	Optical model potentials for $\hat{V}_{\pm}$ -particles scattering around the Coulomb barrier on $A \approx 100$ nuclei. Nuclear Physics A, 2003, 723, 104-126.	1.5	72
7	$\hat{V}_{\pm}$ -particle nuclear surface absorption below the Coulomb barrier in heavy nuclei. Physical Review C, 2010, 82, .	2.9	54
8	Low and medium energy deuteron-induced reactions on $^{27}\text{Al}$ . Physical Review C, 2008, 78, .	2.9	46
9	Low and medium energy deuteron-induced reactions on $^{63}\text{Cu}$ and $^{65}\text{Cu}$ . Physical Review C, 2011, 84, .	2.9	43
10	On temperature dependence of the optical potential for alpha-particles at low energies. Nuclear Physics A, 2006, 764, 246-260.	1.5	40
11	Evaluation and validation of $d+^6\text{Li}$ cross section data for the IFMIF neutron source term simulation. Journal of Nuclear Materials, 2007, 367-370, 1531-1536.	2.7	39
12	Analysis of deuteron elastic scattering on $^6\text{Li}$ up to 50 MeV. Nuclear Physics A, 2005, 759, 327-341.	1.5	30
13	Evaluation of $d+^6\text{Li}$ data for deuteron incident energies up to 50 MeV. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3501-3512.	1.4	28
14	High precision $Y$ data for deuteron incident energies up to 50 MeV. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3513-3522.		

#	ARTICLE	IF	CITATIONS
19	Partial level densities for nuclear data calculations. Computer Physics Communications, 1998, 112, 191-226.	7.5	25
20	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
21	Dynamics of two-neutron transfer reactions on the Borromean nucleus ${}^6\text{He}$ examined. Physical Review C, 2000, 62, .	2.9	24
22	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
23	Improved deuteron elastic breakup energy dependence via the continuum-discretized coupled-channels method. Physical Review C, 2010, 82, .	2.9	23
24	Fast-neutron induced pre-equilibrium reactions on ${}^{55}\text{Mn}$ and ${}^{63,65}\text{Cu}$ at energies up to 40 MeV. Nuclear Physics A, 2008, 806, 15-39.	1.5	22
25	Recoil-distance measurements of the lifetimes of high-spin states in ${}^{83}\text{Sr}$ and ${}^{85}\text{Sr}$ . Journal of Physics G: Nuclear Physics, 1981, 7, 399-412.	0.8	21
26	Particle-hole state densities with nonequidistant single-particle levels. Physical Review C, 1998, 58, 295-306.	2.9	21
27	Role of breakup and direct processes in deuteron-induced reactions at low energies. Physical Review C, 2015, 92, .	2.9	20
28	Consistent optical potential for incident and emitted low-energy $\hat{1}\pm$ particles. Physical Review C, 2015, 91, .	2.9	19
29	ELASTIC SCATTERING AS A TEST OF DENSITY DISTRIBUTIONS IN ${}^6\text{He}$ AND ${}^8\text{He}$ . International Journal of Modern Physics E, 2002, 11, 249-264.	1.0	18
30	Isomeric cross sections of fast-neutron-induced reactions on ${}^{197}\text{Au}$ . Physical Review C, 2012, 85, .	2.9	17
31	Spectroscopy of the ${}^{69}\text{Ga}$ and ${}^{71}\text{Ga}$ isotopes with the ${}^{66,68}\text{Zn}(\hat{1}\pm, p^3){}^{69,71}\text{Ga}$ reactions. Nuclear Physics A, 1974, 225, 357-364.	1.5	16
32	Fast-timing lifetime measurements of excited states in ${}^{67}\text{Cu}$ . Physical Review C, 2014, 89, .	2.9	16
33	Analysis of uncertainties in $\hat{1}\pm$ -particle optical-potential assessment below the Coulomb barrier. Physical Review C, 2016, 94, .	2.9	16
34	Lifetime measurements in ${}^{86}\text{Zr}$ . Journal of Physics G: Nuclear Physics, 1978, 4, 261-268.	0.8	15
35	Nuclear surface localization of pre-equilibrium reactions at low energies. Physical Review C, 1996, 54, 2538-2546.	2.9	15
36	$\hat{1}\pm$ -particle optical potential tests below the Coulomb barrier. Physical Review C, 2009, 79, .	2.9	15

#	ARTICLE	IF	CITATIONS
37	Effective interactions for multistep processes. Nuclear Physics A, 2001, 693, 616-629.	1.5	14
38	Additive empirical parametrization and microscopic study of deuteron breakup. Physical Review C, 2017, 95, .	2.9	14
39	The JEFF evaluated nuclear data project. , 2007, , .		14
40	Evidence for a $g_{9/2}$ decoupled band in $^{85}\text{Y}$ . Journal of Physics G: Nuclear Physics, 1981, 7, 667-672.	0.8	13
41	Deuteron breakup effects on activation cross sections at low and medium energies. Journal of Physics: Conference Series, 2010, 205, 012014.	0.4	13
42	Consistent account of deuteron-induced reactions on $^{nat}\text{Cr}$ up to 60 MeV. Physical Review C, 2018, 98, .	2.9	13
43	Consistent account of deuteron-induced reactions on $^{59}\text{Co}$ up to 60 MeV. Physical Review C, 2018, 98, .	2.9	12
44	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
45	Addendum to $\alpha$ -Elastic $\hat{t}$ -scattering on $^{112}\text{Sn}$ and $^{124}\text{Sn}$ at astrophysically relevant energies. Physical Review C, 2006, 73, .	2.9	11
46	Consistent optical potential for incident and emitted low-energy $\hat{t}$ particles. II. $\hat{t}$ emission in fast-neutron-induced reactions on Zr isotopes. Physical Review C, 2017, 96, .	2.9	11
47	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
48	The role of nuclear data for fusion nuclear technology. Fusion Engineering and Design, 2018, 136, 162-167.	1.9	10
49	The Neutrons for Science Facility at SPIRAL-2. Radiation Protection Dosimetry, 2018, 180, 115-119.	0.8	10
50	Assessment of deuteron-induced reaction mechanisms at low and medium energies. EPJ Web of Conferences, 2010, 2, 01004.	0.3	8
51	The neutrons for science facility at SPIRAL-2. EPJ Web of Conferences, 2017, 146, 03003.	0.3	8
52	Validation of an optical potential for incident and emitted low-energy $\alpha$ -particles in the $A \approx 60$ mass range. European Physical Journal A, 2021, 57, 1.	2.5	8
53	Deuteron-induced reaction mechanisms at low energies. EPJ Web of Conferences, 2012, 21, 07003.	0.3	7
54	Advanced breakup-nucleon enhancement of deuteron-induced reaction cross sections. European Physical Journal A, 2022, 58, 1.	2.5	7

#	ARTICLE	IF	CITATIONS
55	Average strength of the effective interaction in multistep direct reactions. Physical Review C, 1997, 56, 1633-1636.	2.9	6
56	Study of the $^{89}\text{Y}(\hat{1}\pm, \hat{1}\pm)^{89}\text{Y}$ reaction close to the Coulomb barrier. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014037.	3.6	6
57	On deuteron interactions within surrogate reactions and nuclear level density studies. Journal of Physics: Conference Series, 2016, 724, 012003.	0.4	6
58	Role of consistent parameter sets in an assessment of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -particle optical potential below the Coulomb barrier. Physical Review C, 2019, 99, .	2.9	6
59	Analysis of Deuteron Breakup and Induced Activation on Medium Nuclei. Journal of the Korean Physical Society, 2011, 59, 903-906.	0.7	6
60	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
61	Additional $\hat{1}\pm$ -particle optical potential tests below the Coulomb barrier. Physical Review C, 2010, 81, .	2.9	5
62	The Activities of the European Consortium on Nuclear Data Development and Analysis for Fusion. Nuclear Data Sheets, 2014, 120, 226-229.	2.2	5
63	Enhanced $\hat{1}\pm$ -particle optical potential at low energies, for the mass range $A \hat{1}^{1/4} 45-209$ . AIP Conference Proceedings, 2015, , .	0.4	5
64	Deuteron-induced reactions on manganese at low energies. Physical Review C, 2020, 101, .	2.9	5
65	Consistent exciton state and nuclear level densities. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L261-L267.	3.6	4
66	Pre-equilibrium $\hat{1}\pm$ -Emission Surface Effects in Activation Reactions. Journal of Nuclear Science and Technology, 2002, 39, 803-806.	1.3	4
67	$^{65}\text{Cu}(d,p)^{66}\text{Cu}$ excitation function at deuteron energies up to 20 MeV. EPJ Web of Conferences, 2010, 8, 07002.	0.3	4
68	Nuclear data for fusion technology $\hat{1}\pm$ the European approach. EPJ Web of Conferences, 2017, 146, 09003.	0.3	4
69	Deuteron-induced reactions on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Zr} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mi} \rangle \text{nat} \langle \text{mml:mi} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ up to 60 MeV. Physical Review C, 2021, 104, .	2.9	4
70	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
71	Semiclassical and quantum mechanical pre-equilibrium neutron emission. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 745-756.	3.6	3
72	Pauli-blocking effects in neutron-alpha reactions. Journal of Physics G: Nuclear and Particle Physics, 1995, 21, 837-846.	3.6	3

#	ARTICLE	IF	CITATIONS
73	Analysis of $\alpha$ -induced reactions on $^{151}\text{Eu}$ below the Coulomb barrier. Physical Review C, 2011, 83, .	2.9	3
74	On reaction mechanisms involved in the deuteron $\alpha$ -induced surrogate reactions. , 2015, , .		3
75	Role of the direct processes in low-energy deuteron interactions. EPJ Web of Conferences, 2017, 146, 12020.	0.3	3
76	Effects of direct interactions on deuteron induced reactions. Journal of Physics: Conference Series, 2018, 1023, 012009.	0.4	3
77	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
78	Nuclear data activities of the EUROfusion consortium. EPJ Web of Conferences, 2020, 239, 21001.	0.3	3
79	Level density shell effects in neutron induced reactions on molybdenum isotopes. Radiation Effects, 1986, 95, 211-214.	0.4	2
80	Experimental study of the variation of alpha elastic scattering cross sections along isotopic and isotonic chains at low energies. AIP Conference Proceedings, 2008, , .	0.4	2
81	The Neutrons for Science Facility at SPIRAL-2. , 2011, , .		2
82	On neutron-induced reaction mechanisms at medium energies. EPJ Web of Conferences, 2012, 21, 07004.	0.3	2
83	Direct processes effects on deuteron activation cross sections. Journal of Physics: Conference Series, 2014, 533, 012004.	0.4	2
84	Uncertainties of $\alpha$ -particle optical potential assessment around and below the Coulomb barrier. AIP Conference Proceedings, 2017, , .	0.4	2
85	$\alpha$ -particles optical potential for medium and heavy-mass nuclei around the Coulomb barrier. EPJ Web of Conferences, 2010, 2, 02003.	0.3	1
86	$\alpha$ -particle optical potentials for nuclear astrophysics (NA) and nuclear technology (NT). AIP Conference Proceedings, 2012, , .	0.4	1
87	On the synergy of nuclear data for fusion and model assumptions. EPJ Web of Conferences, 2017, 146, 09015.	0.3	1
88	Consistent assessment of deuteron interactions at low and medium energies. AIP Conference Proceedings, 2019, , .	0.4	1
89	On the physics beyond the $\alpha$ -particle optical potential parameters. AIP Conference Proceedings, 2019, , .	0.4	1
90	Consistent analysis of deuteron interactions at low and medium energies. Journal of Physics: Conference Series, 2020, 1555, 012016.	0.4	1

#	ARTICLE	IF	CITATIONS
91	Charged particle activation facility in NPI CAS and in future GANIL/SPIRAL2-NFS. EPJ Web of Conferences, 2020, 239, 17010.	0.3	1
92	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
93	Analysis of empirical parametrization and microscopical studies of deuteron-induced reactions. EPJ Web of Conferences, 2020, 239, 03011.	0.3	1
94	Preequilibrium and statistical model calculations for neutron activation cross sections on titanium isotopes. Radiation Effects, 1986, 95, 207-210.	0.4	0
95	Short-range nucleon correlations in the semiclassical nuclear models. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 79-89.	3.6	0
96	Light exotic nuclei: A new explanation of halo. Physics of Atomic Nuclei, 2001, 64, 1229-1235.	0.4	0
97	MICROSCOPIC OPTICAL POTENTIAL FOR NUCLEAR TRANSMUTATION, FUSION REACTORS, AND ADS PROJECTS. , 2004, , .		0
98	Self-consistent optical potential for $\hat{1}\pm$ -particles at low energies. , 2007, , .		0
99	Low energy deuteron elastic scattering on light and medium nuclei. , 2007, , .		0
100	On the role of activation and particle-emission data for reaction model validation. , 2007, , .		0
101	QUESTIONS OF THE MICROSCOPICAL OPTICAL POTENTIAL FOR ALPHA-PARTICLES AT LOW ENERGIES. , 2007, , .		0
102	The Alpha-Particle Mean Field and Consistent Pre-Equilibrium and Statistical Emission. NATO ASI Series Series B: Physics, 1994, , 99-100.	0.2	0
103	The dark side of alpha-particle optical potential: Emission from excited nuclei. EPJ Web of Conferences, 2020, 239, 03020.	0.3	0