

# Manuela RodrÃ-iguez Gallardo

## List of Publications by Year in descending order

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69  
papers

1,143  
citations

430874

18  
h-index

395702

33  
g-index

70  
all docs

70  
docs citations

70  
times ranked

436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropies and IPR as Markers for a Phase Transition in a Two-Level Model for Atom-Diatomic Molecule Coexistence. Entropy, 2022, 24, 113.	2.2	2
2	Reaction dynamics of exotic and stable weakly-bound nuclei using a four-body continuum-discretized coupled-channels formalism. EPJ Web of Conferences, 2021, 252, 04004.	0.3	1
3	Understanding the mechanisms of nuclear collisions: A complete study of the $^{10}\text{B} + ^{208}\text{Pb}$ reaction. Physical Review C, 2021, 103, 044601.	2.9	8
4	Elastic scattering measurements for the $^{10}\text{B} + ^{208}\text{Pb}$ reaction. Physical Review C, 2021, 103, 044602.	2.9	8
5	Systematic calculations of reactions with exotic and stable nuclei to establish a unified theoretical approach. Physical Review C, 2021, 103, 044603.	2.9	7
6	Investigation of the reaction mechanisms for $^{10}\text{B} + ^{208}\text{Pb}$ reaction. Physical Review C, 2021, 103, 044604.	2.9	10
7	Systematic study of optical potential strengths in reactions on $^{19}\text{F} + ^{208}\text{Pb}$ involving strongly bound, weakly bound, and exotic nuclei. Physical Review C, 2019, 100, 044601.	2.9	6
8	Description of continuum structures in a discrete basis: Three-body resonances and two-nucleon decays. SciPost Physics Proceedings, 2020, , .	0.4	2
9	Comment on $^6\text{Li} + ^{208}\text{Pb}$ Coulomb excitation cross sections to nonresonant astrophysical rates in three-body systems: The $^{17}\text{O} + ^{208}\text{Pb}$ case. Physical Review C, 2020, 102, .	0.4	0
10	Alpha-particle production in the $^6\text{He} + ^{120}\text{Sn}$ collision. Journal of Physics: Conference Series, 2020, 1643, 012093.	0.4	0
11	Breakup mechanisms in the $^6\text{He} + ^{64}\text{Zn}$ reaction at near-barrier energies within a four-body model. Physical Review C, 2018, 97, .	2.9	16
12	Systematic study of optical potential strengths in reactions on $^{120}\text{Sn}$ involving strongly bound, weakly bound, and exotic nuclei. Physical Review C, 2019, 100, .	2.9	14
13	$^6\text{He} + ^{120}\text{Sn}$ scattering at near-barrier energies within a four-body model. Physical Review C, 2018, 97, .	2.9	17
14	$^9\text{Be} + ^{120}\text{Sn}$ scattering at near-barrier energies within a four-body model. Physical Review C, 2018, 97, .	2.9	23
15	Elastic scattering, inelastic excitation, and pick-up transfer cross sections for $^{10}\text{B} + ^{208}\text{Pb}$ reaction. Physical Review C, 2021, 103, 044605.	2.9	16
16	Four-body Effects in the $^6\text{He} + ^{58}\text{Ni}$ Scattering. Frontiers in Nuclear and Particle Physics, 2018, , 177-199.	0.0	0
17	Three-body radiative capture reactions. EPJ Web of Conferences, 2017, 165, 01010.	0.3	1
18	$^9\text{Be}$ scattering within a four-body continuum-discretized coupled-channels framework. EPJ Web of Conferences, 2016, 117, 06023.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Radiative capture reaction for $^{17}\text{Ne}$ formation within a full three-body model. <i>Physical Review C</i> , 2016, 94, .	2.9	12
20	Reactions Induced by $^9\text{Be}$ in a Four-Body Continuum-Discretized Coupled-Channels Framework. <i>Springer Proceedings in Physics</i> , 2016, , 169-170.	0.2	0
21	Determining astrophysical three-body radiative capture reaction rates from inclusive Coulomb break-up measurements. <i>Physical Review C</i> , 2016, 93, .	2.9	5
22	on elastic scattering	2.9	27
23	and $^{11}\text{Li}$ structural information from inclusive break-up measurements. <i>EPJ Web of Conferences</i> , 2015, 88, 01003.	2.9	29
24	at energies near the Coulomb barrier. <i>Physical Review C</i> , 2015, 92, .	0.3	0
25	Scattering of Halo Nuclei at Energies below and around the Coulomb Barrier. , 2015, , .		1
26	Recent results on reactions with radioactive beams at RIBRAS (Radioactive Ion Beams in Brazil). <i>Journal of Physics: Conference Series</i> , 2015, 590, 012012.	0.4	0
27	Reactions with light exotic nuclei. <i>EPJ Web of Conferences</i> , 2014, 69, 00013.	0.3	1
28	Scattering of light halo nuclei on heavy target at energies around the Coulomb barrier. <i>EPJ Web of Conferences</i> , 2014, 66, 03086.	0.3	0
29	Astrophysical reaction rate for $^{11}\text{Li} + ^{208}\text{Pb}$ collisions at energies around the Coulomb barrier. <i>Journal of Physics: Conference Series</i> , 2014, 515, 012004.	2.9	39
30	Formation within Four-body effects in the $^{11}\text{Li} + ^{208}\text{Pb}$ collisions	4.1	47
31	Study of reactions induced by $^6\text{He}$ on $^9\text{Be}$ . <i>EPJ Web of Conferences</i> , 2014, 66, 03071.	0.3	1
32	Study of the break-up channel in $^{11}\text{Li} + ^{208}\text{Pb}$ collisions at energies around the Coulomb barrier. <i>Journal of Physics: Conference Series</i> , 2014, 515, 012004.	0.4	0
33	Breakup on $^{11}\text{Li} + ^{208}\text{Pb}$ collisions	7.8	66
34	Analytical transformed harmonic oscillator basis for three-body nuclei of astrophysical interest: Application to $^6\text{He}$ . <i>Physical Review C</i> , 2013, 88, .	2.9	37
35	Three-body nuclei and their astrophysical implications: The case of $^6\text{He}$ . , 2013, , .		1
36	Do Halo Nuclei Follow Rutherford Elastic Scattering at Energies Below the Barrier? The Case of $^{11}\text{Li} + ^{208}\text{Pb}$ collisions	7.8	127

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37	Recent applications of four-body Continuum-Discretized Coupled-Channels calculations to [ <sup>6</sup> He reactions. , 2011, , .		0
38	Experimental study of He6+Be9 elastic scattering at low energies. Physical Review C, 2011, 83, .	2.9	36
39	Resonant breakup of C19 on a proton target. Physical Review C, 2011, 83, .	2.9	6
40	FOUR-BODY CONTINUUM-DISCRETIZED COUPLED-CHANNEL CALCULATIONS APPLIED TO <sup>6</sup><font>He</font> REACTIONS AROUND THE COULOMB BARRIER. International Journal of Modern Physics E, 2011, 20, 947-952.	1.0	6
41	Study Of The Scattering Of Halo Nuclei Around The Coulomb Barrier. , 2011, , .		0
42	Simultaneous analysis of elastic, breakup, and fusion channels for <sup>6</sup> He induced reactions at energies near the Coulomb barrier. EPJ Web of Conferences, 2011, 17, 08001.	0.3	5
43	Four-body continuum-discretized coupled-channels calculations: Application to [ <sup>6</sup> He+ <sup>64</sup> Zn at 13.6 MeV. AIP Conference Proceedings, 2010, , .	0.4	0
44	Scientific program of the Radioactive Ion Beams Facility in Brasil (RIBRAS). Nuclear Physics A, 2010, 834, 491c-494c.	1.5	2
45	Simultaneous analysis of elastic scattering and transfer/breakup channels for the <sup>6</sup> He+ <sup>208</sup> Pb reaction at energies near the Coulomb barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 310-315.	4.1	25
46	Long range effects on the optical model of <sup>6</sup> He around the Coulomb barrier. Nuclear Physics A, 2010, 840, 19-38.	1.5	35
47	The [ <sup>6</sup> He Optical Potential at energies around the Coulomb barrier. AIP Conference Proceedings, 2010, , .	0.4	0
48	Elastic scattering and total reaction cross section of He6+Sn120. Physical Review C, 2010, 81, .	2.9	66
49	The Research Program at RIBRAS (Radioactive Ion Beams in Brasil)-III. AIP Conference Proceedings, 2010, , .	0.4	2
50	Exotic Nuclei in South America. , 2010, , .		1
51	Spectroscopy of unbound states under quasifree scattering conditions: One-neutron knockout reaction of Be14. Physical Review C, 2009, 79, .	2.9	18
52	Two-body scattering without angular-momentum decomposition: Fully off-shell T-matrices. European Physical Journal A, 2009, 42, 601.	2.5	4
53	One-neutron knockout reaction of halo nuclei. European Physical Journal A, 2009, 42, 609.	2.5	0
54	Four-body continuum-discretized coupled-channels calculations. Physical Review C, 2009, 80, .	2.9	72

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55	Four-body continuum-discretized coupled-channels calculations using a transformed harmonic oscillator basis. <i>Physical Review C</i> , 2008, 77, .	2.9	103
56	Algebraic description of the inelastic collision between an atom and a Morse oscillator in one dimension. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 145203.	1.5	12
57	Two-body scattering without angular-momentum decomposition. <i>Physical Review C</i> , 2008, 78, .	2.9	17
58	Multiple scattering effects in quasifree scattering from halo nuclei: A test of the distorted-wave impulse approximation. <i>Physical Review C</i> , 2008, 77, .	2.9	24
59	MULTIPLE SCATTERING EFFECTS IN ELASTIC AND QUASI FREE PROTON SCATTERING FROM HALO NUCLEI. , 2008, , .		0
60	An algebraic model to describe atom-atom inelastic collisions in the semiclassical approximation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 4513-4527.	1.5	11
61	Rescattering effects in proton elastic scattering from halo nuclei: A test of the Glauber approximation. <i>Physical Review C</i> , 2007, 76, .	2.9	23
62	Continuum description with pseudostate wave functions. <i>Physical Review C</i> , 2007, 75, .	2.9	2
63	Improved di-neutron cluster model for $^6\text{He}$ scattering. <i>Physical Review C</i> , 2007, 75, .	2.9	76
64	Exploring the $^6\text{He}$ continuum sea through proton inelastic collisions. <i>European Physical Journal: Special Topics</i> , 2007, 150, 13-14.	2.6	0
65	Continuum effects: Structure and reactions of $^6\text{He}$ . <i>European Physical Journal: Special Topics</i> , 2007, 150, 51-52.	2.6	7
66	Probing $^6\text{He}$ structure from proton inelastic collisions. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
67	Three-body continuum discretization in a basis of transformed harmonic oscillator states. <i>Physical Review C</i> , 2005, 72, .	2.9	45
68	Describing resonances in a discrete basis. <i>Physical Review C</i> , 2004, 69, .	2.9	12
69	Continuum coupling in one-dimensional scattering using a transformed harmonic oscillator basis. <i>Physical Review A</i> , 2002, 65, .	2.5	8