

Manuela Rodríguez Gallardo

List of Publications by Year in descending order

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69
papers

1,143
citations

430874
18
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395702
33
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70
all docs

70
docs citations

70
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Do Halo Nuclei Follow Rutherford Elastic Scattering at Energies Below the Barrier? The Case of Li . <i>Physical Review Letters</i> , 2012, 109, 262701.	7.8	127
2	Four-body continuum-discretized coupled-channels calculations using a transformed harmonic oscillator basis. <i>Physical Review C</i> , 2008, 77, .	2.9	103
3	Improved di-neutron cluster model for He_6 scattering. <i>Physical Review C</i> , 2007, 75, .	2.9	76
4	Four-body continuum-discretized coupled-channels calculations. <i>Physical Review C</i> , 2009, 80, .	2.9	72
5	Elastic scattering and total reaction cross section of $\text{He}_6 + \text{Sn}120$. <i>Physical Review C</i> , 2010, 81, .	2.9	66
6	Elastic scattering and total reaction cross section of $\text{He}_6 + \text{Sn}120$. <i>Physical Review C</i> , 2010, 81, .	2.9	66
7	Three-body continuum discretization in a basis of transformed harmonic oscillator states. <i>Physical Review C</i> , 2005, 72, .	4.1	47
8	Astrophysical reaction rate for $\text{He}_6 + \text{Be}9$. <i>Physical Review C</i> , 2011, 83, .	2.9	45
9	Analytical transformed harmonic oscillator basis for three-body nuclei of astrophysical interest: Application to $\text{He}_6 + \text{Be}9$. <i>Physical Review C</i> , 2011, 83, .	2.9	39
10	Experimental study of $\text{He}_6 + \text{Be}9$ elastic scattering at low energies. <i>Physical Review C</i> , 2011, 83, .	2.9	36
11	Long range effects on the optical model of 6He around the Coulomb barrier. <i>Nuclear Physics A</i> , 2010, 840, 19-38.	1.5	35
12	Simultaneous analysis of the elastic scattering and breakup channel for the reaction $\text{He}_6 + \text{Pb}^{208}$ at energies near the Coulomb barrier. <i>Physics Letters Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 693, 310-315.	2.9	27
13	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
14	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
15	Be9+Sn120 scattering at near-barrier energies within a four-body model. <i>Physical Review C</i> , 2018, 97, .	2.9	23

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19	Spectroscopy of unbound states under quasifree scattering conditions: One-neutron knockout reaction of Be^{14} . Physical Review C, 2009, 79, .	2.9	18
20	Two-body scattering without angular-momentum decomposition. Physical Review C, 2008, 78, . <i>Two-neutron transfer in the</i>	2.9	17
21	He^{14} \rightarrow $\text{He}^{13} + \text{n}$ elastic scattering, inelastic excitation, and pick-up transfer cross sections for He^{14} reaction at	2.9	17
22	He^{14} \rightarrow $\text{He}^{13} + \text{n}$ reaction at	2.9	16
23	He^{14} \rightarrow $\text{He}^{13} + \text{n}$ reaction at	2.9	16
24	Systematic study of optical potential strengths in reactions on He^{14} involving strongly bound, weakly bound, and exotic nuclei. Physical Review C, 2019, 100, .	2.9	14
25	Describing resonances in a discrete basis. Physical Review C, 2004, 69, .	2.9	12
26	Algebraic description of the inelastic collision between an atom and a Morse oscillator in one dimension. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 145203.	1.5	12
27	Radiative capture reaction for Ne^{17} formation within a full three-body model. Physical Review C, 2016, 94, .	2.9	12
28	An algebraic model to describe atom-diatom inelastic collisions in the semiclassical approximation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 4513-4527.	1.5	11
29	B^{10} \rightarrow $\text{B}^{10} + \text{n}$ continuum coupling in one-dimensional scattering using a transformed harmonic oscillator basis. Physical Review A, 2002, 65, .	2.9	10
30	Continuum coupling in one-dimensional scattering using a transformed harmonic oscillator basis. Physical Review A, 2002, 65, .	2.5	8
31	B^{10} \rightarrow $\text{B}^{10} + \text{n}$ continuum coupling in one-dimensional scattering using a transformed harmonic oscillator basis. Physical Review A, 2002, 65, .	2.9	8
32	Elastic scattering measurements for the C^{12} \rightarrow $\text{C}^{12} + \text{n}$ system at	2.9	8
33	C^{12} \rightarrow $\text{C}^{12} + \text{n}$ continuum effects: Structure and reactions of C^{12} . European Physical Journal: Special Topics, 2007, 150, 51-52.	2.6	7
34	Systematic calculations of reactions with exotic and stable nuclei to establish a unified theoretical approach. Physical Review C, 2021, 103, .	2.9	7
35	Resonant breakup of C^{19} on a proton target. Physical Review C, 2011, 83, .	2.9	6
36	FOUR-BODY CONTINUUM-DISCRETIZED COUPLED-CHANNEL CALCULATIONS APPLIED TO He^{16} REACTIONS AROUND THE COULOMB BARRIER. International Journal of Modern Physics E, 2011, 20, 947-952.	1.0	6

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37	$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 9 \langle / \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle / \text{mml:mo} \rangle \langle \text{mml:mo} \rangle + \langle / \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle / \text{mml:mo} \rangle \langle \text{mml:mi} \rangle p \langle / \text{mml:mi} \rangle$		
38	Determining astrophysical three-body radiative capture reaction rates from inclusive Coulomb break-up measurements. <i>Physical Review C</i> , 2016, 93, .	2.9	5
39	Simultaneous analysis of elastic, breakup, and fusion channels for ${}^6\text{He}$ induced reactions at energies near the Coulomb barrier. <i>EPJ Web of Conferences</i> , 2011, 17, 08001.	0.3	5
40	Two-body scattering without angular-momentum decomposition: Fully off-shell T-matrices. <i>European Physical Journal A</i> , 2009, 42, 601.	2.5	4
41	Continuum description with pseudostate wave functions. <i>Physical Review C</i> , 2007, 75, .	2.9	2
42	Scientific program of the Radioactive Ion Beams Facility in Brasil (RIBRAS). <i>Nuclear Physics A</i> , 2010, 834, 491c-494c.	1.5	2
43	The Research Program at RIBRAS (Radioactive Ion Beams in Brasil)-III. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	2
44	Description of continuum structures in a discrete basis: Three-body resonances and two-nucleon decays. <i>SciPost Physics Proceedings</i> , 2020, , .	0.4	2
45	Entropies and IPR as Markers for a Phase Transition in a Two-Level Model for Atomâ€“Diatom Molecule Coexistence. <i>Entropy</i> , 2022, 24, 113.	2.2	2
46	Exotic Nuclei in South America. , 2010, , .		1
47	Three-body nuclei and their astrophysical implications: The case of $[{}^6\text{He}]$. , 2013, , .		1
48	Reactions with light exotic nuclei. <i>EPJ Web of Conferences</i> , 2014, 69, 00013.	0.3	1
49	Study of reactions induced by ${}^6\text{He}$ on ${}^9\text{Be}$. <i>EPJ Web of Conferences</i> , 2014, 66, 03071.	0.3	1
50	Scattering of Halo Nuclei at Energies below and around the Coulomb Barrier. , 2015, , .		1
51	Three-body radiative capture reactions. <i>EPJ Web of Conferences</i> , 2017, 165, 01010.	0.3	1
52	Reaction dynamics of exotic and stable weakly-bound nuclei using a four-body continuum-discretized coupled-channels formalism. <i>EPJ Web of Conferences</i> , 2021, 252, 04004.	0.3	1
53	Probing ${}^6\text{He}$ structure from proton inelastic collisions. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
54	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

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55	One-neutron knockout reaction of halo nuclei. European Physical Journal A, 2009, 42, 609.	2.5	0
56	Four-body continuum-discretized coupled-channels calculations: Application to $[{}^6\text{He} + {}^{64}\text{Zn}]$ at 13.6 MeV. AIP Conference Proceedings, 2010, ,.	0.4	0
57	The $[{}^6\text{He}]$ Optical Potential at energies around the Coulomb barrier. AIP Conference Proceedings, 2010, ,.	0.4	0
58	Recent applications of four-body Continuum-Discretized Coupled-Channels calculations to $[{}^6\text{He}]$ reactions., 2011, ,.		0
59	Study Of The Scattering Of Halo Nuclei Around The Coulomb Barrier. , 2011, ,.		0
60	Scattering of light halo nuclei on heavy target at energies around the Coulomb barrier. EPJ Web of Conferences, 2014, 66, 03086.	0.3	0
61	Study of the break-up channel in ${}^{11}\text{Li} + {}^{208}\text{Pb}$ collisions at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2014, 515, 012004.	0.4	0
62	${}^{11}\text{Li}$ structural information from inclusive break-up measurements. EPJ Web of Conferences, 2015, 88, 01003.	0.3	0
63	Recent results on reactions with radioactive beams at RIBRAS (Radioactive Ion Beams in Brazil). Journal of Physics: Conference Series, 2015, 590, 012012.	0.4	0
64	${}^9\text{Be}$ scattering within a four-body continuum-discretized coupled-channels framework. EPJ Web of Conferences, 2016, 117, 06023.	0.3	0
65	Reactions Induced by ${}^9\text{Be}$ in a Four-Body Continuum-Discretized Coupled-Channels Framework. Springer Proceedings in Physics, 2016, , 169-170.	0.2	0
66	MULTIPLE SCATTERING EFFECTS IN ELASTIC AND QUASI FREE PROTON SCATTERING FROM HALO NUCLEI. , 2008, ,.		0
67	Four-body Effects in the ${}^6\text{He} + {}^{58}\text{Ni}$ Scattering. Frontiers in Nuclear and Particle Physics, 2018, , 177-199.	0.0	0
68	Comment on "From Coulomb excitation cross sections to nonresonant astrophysical rates in three-body systems: The $\langle \text{mml:math} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ne} \langle / \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 17 \langle / \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle / \text{mml:math} \rangle$ case". Physical Review C, 2020, 102, .	0.2	0
69	Alpha-particle production in the ${}^6\text{He} + {}^{120}\text{Sn}$ collision. Journal of Physics: Conference Series, 2020, 1643, 012093.	0.4	0