

Manuela RodrÃ-guez 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	Do Halo Nuclei Follow Rutherford Elastic Scattering at Energies Below the Barrier? The Case of ${}^6\text{Li} + {}^{208}\text{Pb}$. Physical Review Letters, 2012, 109, 262701.	7.8	127
2	Four-body continuum-discretized coupled-channels calculations using a transformed harmonic oscillator basis. Physical Review C, 2008, 77, .	2.9	103
3	Improved di-neutron cluster model for ${}^6\text{He}$ scattering. Physical Review C, 2007, 75, .	2.9	76
4	Four-body continuum-discretized coupled-channels calculations. Physical Review C, 2009, 80, .	2.9	72
5	Elastic scattering and total reaction cross section of ${}^6\text{He} + {}^{120}\text{Sn}$. Physical Review C, 2010, 81, .	2.9	66
6	Breakup on ${}^6\text{Li} + {}^{208}\text{Pb}$ at Energies Around the Coulomb Barrier. Physical Review C, 2013, 88, .	7.8	66
7	Three-body continuum discretization in a basis of transformed harmonic oscillator states. Physical Review C, 2005, 72, .	4.1	47
8	Astrophysical reaction rate for ${}^6\text{He} + {}^9\text{Be}$ formation within the transformed harmonic oscillator basis. Physical Review C, 2014, 89, .	2.9	45
9	Analytical transformed harmonic oscillator basis for three-body nuclei of astrophysical interest: Application to ${}^6\text{He} + {}^9\text{Be}$. Physical Review C, 2013, 88, .	2.9	39
10	Experimental study of ${}^6\text{He} + {}^9\text{Be}$ elastic scattering at low energies. Physical Review C, 2011, 83, .	2.9	37
11	Long range effects on the optical model of ${}^6\text{He}$ around the Coulomb barrier. Nuclear Physics A, 2010, 840, 19-38.	2.9	36
12	Simultaneous analysis of the elastic scattering and breakup channel for the reaction ${}^6\text{Li} + {}^{208}\text{Pb}$ at energies near the Coulomb barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 310-315.	1.5	35
13	on ${}^6\text{Li} + {}^{208}\text{Pb}$ and ${}^6\text{He} + {}^{208}\text{Pb}$ elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 310-315.	2.9	29
14	Simultaneous analysis of elastic scattering and transfer/breakup channels for the ${}^6\text{He} + {}^{208}\text{Pb}$ reaction at energies near the Coulomb barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 310-315.	2.9	27
15	Multiple scattering effects in quasifree scattering from halo nuclei: A test of the distorted-wave impulse approximation. Physical Review C, 2008, 77, .	4.1	25
16	Rescattering effects in proton elastic scattering from halo nuclei: A test of the Glauber approximation. Physical Review C, 2007, 76, .	2.9	24
17	${}^9\text{Be} + {}^{120}\text{Sn}$ scattering at near-barrier energies within a four-body model. Physical Review C, 2018, 97, .	2.9	23

#	ARTICLE	IF	CITATIONS
19	Spectroscopy of unbound states under quasifree scattering conditions: One-neutron knockout reaction of Be14. Physical Review C, 2009, 79, .	2.9	18
20	Two-body scattering without angular-momentum decomposition. Physical Review C, 2008, 78, .	2.9	17
21	Two-neutron transfer in the ${}^6\text{Li} + {}^6\text{Li}$ reaction. Physical Review C, 2009, 79, .	2.9	17
22	Elastic scattering, inelastic excitation, and pick-up transfer cross sections for ${}^6\text{Li} + {}^6\text{Li}$ reaction. Physical Review C, 2009, 79, .	2.9	16
23	Systematic study of optical potential strengths in reactions on ${}^6\text{Li}$ and ${}^7\text{Li}$. Physical Review C, 2010, 81, .	2.9	16
24	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
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 Ne17 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	Investigation of the reaction mechanism of ${}^6\text{Li} + {}^6\text{Li}$ reaction. Physical Review C, 2009, 79, .	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	Understanding the mechanisms of nuclear collisions: A complete study of the ${}^6\text{Li} + {}^6\text{Li}$ reaction. Physical Review C, 2009, 79, .	2.9	8
32	Elastic scattering measurements for the ${}^6\text{Li} + {}^6\text{Li}$ reaction. Physical Review C, 2009, 79, .	2.9	8
33	Continuum effects: Structure and reactions of ${}^6\text{He}$. 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 ${}^{19}\text{C}$ on a proton target. Physical Review C, 2011, 83, .	2.9	6
36	FOUR-BODY CONTINUUM-DISCRETIZED COUPLED-CHANNEL CALCULATIONS APPLIED TO ${}^6\text{He}$ REACTIONS AROUND THE COULOMB BARRIER. International Journal of Modern Physics E, 2011, 20, 947-952.	1.0	6

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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 ^6He 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 ^6He 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}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	^9Be scattering within a four-body continuum-discretized coupled-channels framework. EPJ Web of Conferences, 2016, 117, 06023.	0.3	0
65	Reactions Induced by ^9Be 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 $^6\text{He}+^{17}\text{O}$ case". Physical Review C, 2020, 102, .	0.3	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