

# Filomena M Nunes

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

3,879  
citations

136950

32  
h-index

144013

57  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction for ( $\langle \text{mml:math} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td} \langle \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML" \rangle$	2.9	4
2	Why are theorists excited about exotic nuclei?. Physics Today, 2021, 74, 34-40.	0.3	6
3	Get on the BAND Wagon: a Bayesian framework for quantifying model uncertainties in nuclear dynamics. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 072001.	3.6	42
4	Considering nonlocality in the optical potentials within eikonal models. Physical Review C, 2021, 104, .	2.9	1
5	Recent advances in the quantification of uncertainties in reaction theory. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 014001.	3.6	18
6	Toward emulating nuclear reactions using eigenvector continuation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136777.	4.1	24
7	Statistical tools for a better optical model. Physical Review C, 2021, 104, .	2.9	11
8	Properties of a separable representation of optical potentials. Physical Review C, 2020, 102, .	2.9	2
9	Extracting capture from transfer reactions. Journal of Physics: Conference Series, 2020, 1668, 012030.	0.4	0
10	Study of cluster structures in nuclei through the ratio method. European Physical Journal A, 2020, 56, 1.	2.5	3
11	Nuclear Reactions in Astrophysics: A Review of Useful Probes for Extracting Reaction Rates. Annual Review of Nuclear and Particle Science, 2020, 70, 147-170.	10.2	18
12	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	3.6	38
13	Deuteron- $\langle \text{mml:math} \rangle \langle \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mi} \rangle \hat{I} \pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ scattering: Separable versus nonseparable Faddeev approach. Physical Review C, 2019, 100, .	2.9	10
14	Constraining spectroscopic factors near the $\langle \text{mml:math} \rangle \langle \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mi} \rangle r \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -process path using combined measurements: $\langle \text{mml:math} \rangle \langle \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Kr} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 86 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle$		

#	ARTICLE	IF	CITATIONS
19	Uncertainty quantification due to optical potentials in models for $(d,p)$ reactions. Physical Review C, 2018, 98, .	2.9	16
20	Nonlocal interactions in the $(d,p)$ surrogate method for $(n,\hat{p}^3)$ reactions. Physical Review C, 2018, 98, .	2.9	8
21	Microscopic optical potentials for calcium isotopes. Physical Review C, 2018, 98, .	2.9	41
22	Exploration of the energy dependence of proton nonlocal optical potentials. Physical Review C, 2018, 98, .	2.9	18
23	Constraining transfer cross sections using Bayes' theorem. Physical Review C, 2018, 97, .	2.9	25
24	Three-body model for the two-neutron emission of $^{16}\text{Be}$ . Physical Review C, 2017, 95, .	2.9	17
25	Uncertainty quantification for optical model parameters. Physical Review C, 2017, 95, .	2.9	22
26	Optical potential from first principles. Physical Review C, 2017, 95, .	2.9	71
27	Toward a complete theory for predicting inclusive deuteron breakup away from stability. European Physical Journal A, 2017, 53, 1.	2.5	62
28	Energy dependence of nonlocal optical potentials. Physical Review C, 2017, 96, .	2.9	19
29	$^{6}\text{Li}$ in a three-body model with realistic Forces: Separable versus nonseparable approach. Physical Review C, 2017, 96, .	2.9	10
30	Single Neutron Structure of Neutron-Rich $N = 50$ Nuclei. , 2017, , .		0
31	Separable Potentials for $(d,p)$ Reaction Calculations. Journal of Physics: Conference Series, 2016, 724, 012014.	0.4	0
32	Towards a Faddeev-AGS description of $(d,p)$ reactions with heavy nuclei: Regularizing integrals with Coulomb functions.. EPJ Web of Conferences, 2016, 113, 03016.	0.3	0
33	Two neutron decay of $^{16}\text{Be}$ . EPJ Web of Conferences, 2016, 113, 06015.	0.3	0
34	Examining the effect of nonlocality in $(d,n)$ transfer reactions. Physical Review C, 2016, 94, .	2.9	13
35	Transfer reaction code with nonlocal interactions. Computer Physics Communications, 2016, 207, 499-517.	7.5	23
36	Explicit inclusion of nonlocality in $(d,n)$ reactions. Physical Review C, 2016, 93, .	2.9	39

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37	Extension of the ratio method to low energy. Physical Review C, 2016, 93, .	2.9	4
38	Recent developments in the eikonal description of the breakup of exotic nuclei. Journal of Physics: Conference Series, 2016, 724, 012005.	0.4	2
39	Effects of nonlocal potentials on(p,d)transfer reactions. Physical Review C, 2015, 92, .	2.9	30
40	Systematic uncertainties in direct reaction theories. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034014.	3.6	22
41	Coulomb wave functions in momentum space. Computer Physics Communications, 2015, 187, 195-203.	7.5	5
42	The ratio method: a new way to look at halo nuclei. EPJ Web of Conferences, 2014, 66, 03014.	0.3	1
43	Nuclear theory and science of the facility for rare isotope beams. Modern Physics Letters A, 2014, 29, 1430010.	1.2	57
44	Testing the Perey effect. Physical Review C, 2014, 89, .	2.9	30
45	Coulomb problem in momentum space without screening. Physical Review C, 2014, 90, .	2.9	10
46	Separable representation of proton-nucleus optical potentials. Physical Review C, 2014, 90, .	2.9	12
47	Reexamining surface-integral formulations for one-nucleon transfers to bound and resonance states. Physical Review C, 2014, 89, .	2.9	7
48	Determining the $r$ - $p$ Process Flow through $Ni$		32
49	Mechanisms of direct reactions with halo nuclei. Journal of Physics: Conference Series, 2013, 436, 012040.	0.4	0
50	The ratio method: A new tool to study one-neutron halo nuclei. Physical Review C, 2013, 88, .	2.9	10
51	Reactions of a $^{10}Be$ beam on proton and deuteron targets. Physical Review C, 2013, 88, .	2.9	36
52	Investigation of the triple- $\hat{1}\pm$ reaction in a full three-body approach. Physical Review C, 2013, 87, .	2.9	34
53	Separable representation of phenomenological optical potentials of Woods-Saxon type. Physical Review C, 2013, 88, .	2.9	19
54	Testing the continuum-discretized coupled channels method for deuteron-induced reactions. Physical Review C, 2012, 85, .	2.9	63

#	ARTICLE	IF	CITATIONS
55	Low-Temperature Triple-Alpha Rate in a Full Three-Body Nuclear Model. Physical Review Letters, 2012, 109, 141101.	7.8	31
56	Status of reaction theory for studying rare isotopes. Journal of Physics: Conference Series, 2012, 403, 012029.	0.4	7
57	Comparing nonperturbative models of the breakup of neutron-halo nuclei. Physical Review C, 2012, 85, .	2.9	40
58	Halo Nucleus $^{11}\text{Be}$ : A Spectroscopic Study via Neutron Transfer. Physical Review Letters, 2012, 108, 192701.	7.8	79
59	Solar fusion cross sections. II. The $p\text{-}p$ chain and CNO cycles. Reviews of Modern Physics, 2011, 83, 195-245.	45.6	574
60	One-neutron halo structure by the ratio method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 112-115.	4.1	15
61	Adiabatic approximation versus exact Faddeev method for (d,p) and (p,d) reactions. Physical Review C, 2011, 84, .	2.9	46
62	Direct reaction measurements with a $^{132}\text{Sn}$ radioactive ion beam. Physical Review C, 2011, 84, .	2.9	62
63	Asymptotic normalization of mirror states and the effect of couplings. Physical Review C, 2011, 84, .	2.9	9
64	Asymptotic normalization coefficients from the $C(\text{math})$ Improved description of $^{14}\text{C}$	2.9	29
65	$^{34}\text{Ar}$	2.9	31
66	COUPLING EFFECTS IN THE EXTRACTION OF SPECTROSCOPIC FACTORS. International Journal of Modern Physics E, 2011, 20, 934-937.	1.0	0
67	Two-neutron overlap functions for $^6\text{He}$ from a microscopic structure model. Nuclear Physics A, 2010, 847, 1-23.	1.5	18
68	Finite-range effects in $d\text{-}p$ reactions including breakup: Comparison of methods. Physical Review C, 2010, 82, .	2.9	30
69	Deducing spectroscopic factors from wave-function asymptotics. Physical Review C, 2010, 82, .	2.9	6
70	Theory of $^{137}\text{La}$ and $^{137}\text{La}$ reactions including breakup: Comparison of methods. Physical Review C, 2009, 80, .	2.9	25
71	A MICROSCOPIC HYPER-SPHERICAL MODEL: APPLICATION TO $^6\text{He}$ . International Journal of Modern Physics E, 2008, 17, 2374-2378.	1.0	5
72	Benchmark on neutron capture extracted from $d\text{-}p$	2.9	27

# ARTICLE <http://www.w3.org/1998/Math/MathML>) Tj ETQq1 1 0.784314 rgBT /Overlo!FLO TF 5C CITATIONS

73 direct capture cross sections from Coulomb dissociation: Application to  $C$

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[Redacted]

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#	ARTICLE	IF	CITATIONS
91	Progress on reactions with exotic nuclei. , 2005, , 295-297.		0
92	Be7breakup on heavy and light targets. Physical Review C, 2004, 70, .	2.9	14
93	Insight into continuum couplings. Nuclear Physics A, 2004, 736, 255-268.	1.5	15
94	FaCE: a tool for three body Faddeev calculations with core excitation. Computer Physics Communications, 2004, 161, 87-107.	7.5	85
95	Reaction models to probe the structure of light exotic nuclei. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, R89-R132.	3.6	45
96	Reaction mechanisms in the scattering of $^8\text{Li}$ around the Coulomb barrier. Physical Review C, 2003, 68, .	2.9	28
97	Breakup and core coupling in $^{14}\text{N}(^7\text{Be},^8\text{B})^{13}\text{C}$ . Physical Review C, 2003, 67, .	2.9	14
98	The continuum in reactions with light exotic nuclei. Brazilian Journal of Physics, 2003, 33, 195.	1.4	2
99	Core excitation in $^{12}\text{Be}$ . Nuclear Physics A, 2002, 703, 593-602.	1.5	28
100	Low energy behavior of the astrophysical S-factor in radiative captures to loosely bound final states. Nuclear Physics A, 2002, 708, 437-459.	1.5	18
101	Calculations of three-body observables in $^8\text{B}$ breakup. Physical Review C, 2001, 63, .	2.9	165
102	Transfer and/or Breakup Modes in the $^6\text{He}+^9\text{Be}$ Reaction near the Coulomb Barrier. Physical Review Letters, 2000, 84, 5058-5061.	7.8	185
103	Multistep effects in sub-Coulomb breakup. Physical Review C, 1999, 59, 2652-2659.	2.9	107
104	Nuclear interference effects in $^8\text{B}$ sub-Coulomb breakup. Physical Review C, 1998, 57, R2818-R2820.	2.9	46
105	Core excitation in one neutron halo systems. Nuclear Physics A, 1996, 596, 171-186.	1.5	124
106	Core excitation in three-body systems: Application to $^{12}\text{Be}$ . Nuclear Physics A, 1996, 609, 43-73.	1.5	95