

Joaquin Gomez-Camacho

List of Publications by Year in descending order

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147
papers

2,945
citations

159585

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148
docs citations

148
times ranked

939
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic Scattering and Reaction Mechanisms of the Halo Nucleus ^{11}Be around the Coulomb Barrier. <i>Physical Review Letters</i> , 2010, 105, 022701.	7.8	163
2	Study of the elastic scattering of ^6He on ^{208}Pb at energies around the Coulomb barrier. <i>Nuclear Physics A</i> , 2008, 803, 30-45.	1.5	148
3	Observation of Two-Proton Radioactivity of ^{19}Mg by Tracking the Decay Products. <i>Physical Review Letters</i> , 2007, 99, 182501.	7.8	129
4	Do Halo Nuclei Follow Rutherford Elastic Scattering at Energies Below the Barrier? The Case of ^{11}Li . <i>Physical Review Letters</i> , 2012, 109, 262701.	7.8	127
5	Four-body continuum-discretized coupled-channels calculations using a transformed harmonic oscillator basis. <i>Physical Review C</i> , 2008, 77, .	2.9	103
6	Experimental study of the collision $^{11}\text{Be} + ^{64}\text{Zn}$ around the Coulomb barrier. <i>Physical Review C</i> , 2012, 85, .	2.9	103
7	Elastic scattering of the halo nucleus ^6He from ^{208}Pb above the Coulomb barrier. <i>Nuclear Physics A</i> , 2003, 728, 339-349.	1.5	86
8	Elastic scattering and ^6He -particle production in ^{19}Ne . <i>Physical Review C</i> , 2007, 75, .	2.9	80
9	Improved di-neutron cluster model for ^6He scattering. <i>Physical Review C</i> , 2007, 75, .	2.9	76
10	Four-body continuum-discretized coupled-channels calculations. <i>Physical Review C</i> , 2009, 80, .	2.9	72
11	Proton-proton correlations observed in two-proton decay of ^{19}Mg and ^{19}Ne . <i>Physical Review Letters</i> , 2007, 99, 182501.	2.9	71
12	Dynamic polarization potential induced by dipole Coulomb excitation. <i>Nuclear Physics A</i> , 1994, 579, 273-284.	1.5	68
13	Breakup on ^{11}Li . <i>Physical Review C</i> , 2007, 75, .	7.8	66
14	Study of ^{10}Li via the $^9\text{Li}(^2\text{H}, n)^{10}\text{Li}$ reaction at REX-ISOLDE. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 642, 449-454.	4.1	62
15	Long range absorption in the scattering of ^6He on ^{208}Pb and ^{197}Au at 27 MeV. <i>Nuclear Physics A</i> , 2006, 765, 294-306.	1.5	59
16	Three-body continuum-discretized coupled-channel calculations for ^6He scattering from heavy nuclei. <i>Physical Review C</i> , 2005, 72, .	2.9	54
17	A novel approach to precipitation series completion in climatological datasets: application to Andalusia. <i>International Journal of Climatology</i> , 2008, 28, 1525-1534.	3.5	54
18	Scattering of the Halo Nucleus ^{11}Be on ^{208}Pb at Energies Around the Coulomb Barrier. <i>Physical Review Letters</i> , 2010, 105, 022701.	7.8	53

#	ARTICLE	IF	CITATIONS
19	Tidal symmetry in nuclear reactions: application to the scattering of polarised projectiles. Journal of Physics G: Nuclear Physics, 1986, 12, L235-L241.	0.8	48
20	Three-body continuum discretization in a basis of transformed harmonic oscillator states. Physical Review C, 2005, 72, .	2.9	45
21	$\hat{I}\pm$ -particle production in the scattering of ^6He by ^{208}Pb at energies around the Coulomb barrier. Nuclear Physics A, 2007, 792, 2-17.	1.5	45
22	Spectroscopy of proton-unbound nuclei by tracking their decay products in-flight: One- and two-proton decays of ^{15}F , ^{16}Ne , and ^{19}Na . Physical Review C, 2010, 82, .	2.9	43
23	Tidal symmetry in nuclear reactions: application to the scattering of polarised projectiles. Journal of Physics G: Nuclear Physics, 1988, 14, 609-628.	0.8	39
24	Coupling to breakup channels using a transformed harmonic oscillator basis. Physical Review C, 2001, 65, .	2.9	37
25	Observation of narrow states in nuclei beyond the proton drip line: F	2.9	37
26	Ansu(1, 1) dynamical algebra for the Morse potential. Journal of Physics A, 2004, 37, 1805-1820.	1.6	35
27	Dynamic polarization potential induced by dipole Coulomb excitation to break-up states in ^{11}Li scattering. Nuclear Physics A, 1995, 583, 817-820.	1.5	34
28	Signature of a strong coupling with the continuum in $^{11}\text{Be} + ^{120}\text{Sn}$ scattering at the Coulomb barrier. European Physical Journal A, 2009, 42, 461.	2.5	34
29	Scattering of ^6He at energies around the Coulomb barrier. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1953-S1958.	3.6	33
30	Analytical transformed harmonic oscillator basis for continuum discretized coupled channels calculations. Physical Review C, 2009, 80, .	2.9	30
31	Continuum discretization in a basis of transformed harmonic-oscillator states. Physical Review A, 2001, 63, .	2.5	29
32	Probing additional dimensions in the universe with neutron experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 582, 15-20.	4.1	29
33	Simultaneous analysis of the elastic scattering and breakup channel for the reaction $^{11}\text{Li} + ^{208}\text{Pb}$ at energies near the Coulomb barrier. Physical Review C, 2015, 92, .	2.9	29
34	Dipole Polarizability in the Scattering of ^{11}Li below the Coulomb Barrier. Physical Review Letters, 1999, 82, 1387-1390.	7.8	28
35	Analytic evaluation of Franck-Condon integrals for anharmonic vibrational wave functions. Physical Review A, 1999, 59, 3462-3470.	2.5	28
36	Reaction mechanisms in the scattering of ^8Li on ^{208}Pb around the Coulomb barrier. Physical Review C, 2003, 68, .	2.9	28

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37	Study of the threshold anomaly in the scattering of polarized ^7Li from ^{208}Pb . Nuclear Physics A, 1995, 582, 357-368.	1.5	27
38	Exploring continuum structures with a pseudo-state basis. Physical Review C, 2010, 82, .	2.9	27
39	Particle motion in a deformed potential using a transformed oscillator basis. Physical Review C, 2012, 85, .	2.9	24
40	Ansu(1, 1) dynamical algebra for the Pöschl-Teller potential. Journal of Physics A, 2004, 37, 877-893.	1.6	23
41	Quantum mechanical description of Stern-Gerlach experiments. Physical Review A, 2005, 71, .	2.5	20
42	Double-folding model analysis of the threshold anomaly in the scattering of polarized ^7Li from ^{208}Pb . Nuclear Physics A, 1996, 605, 417-431.	1.5	19
43	Study of polarized ^7Li scattering from ^{208}Pb at 33 MeV. Nuclear Physics A, 1997, 614, 112-128.	1.5	19
44	Low energy reactions with radioactive ions at REX-ISOLDE—the $^9\text{Li}+^2\text{H}$ case. Nuclear Physics A, 2005, 748, 374-392.	1.5	19
45	Coulomb breakup in a transformed harmonic oscillator basis. Physical Review C, 2006, 73, .	2.9	19
46	Identifying structures in the continuum: Application to $^6\text{Li}+^4\text{He}$ reaction at near-barrier energies. Physical Review C, 2019, 99, .	2.9	17
47	Semiclassical description of Stern-Gerlach experiments. Physical Review A, 2000, 63, .	2.5	16
48	Breakup mechanisms in the $^6\text{Li}+^4\text{He}$ reaction at near-barrier energies. Physical Review C, 2019, 99, .	2.9	16
49	Coupled channel effects in the scattering of $^6,7\text{Li}$ by ^{58}Ni . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 161, 39-42.	4.1	15
50	Effects of the electric dipole polarizability in the scattering of polarized ^7Li from ^{208}Pb at 27 MeV. Nuclear Physics A, 1998, 641, 188-202.	1.5	15
51	Effects of the electric dipole polarizability in the scattering of polarized ^7Li from ^{208}Pb at 27 MeV. Nuclear Physics A, 1998, 641, 188-202.	2.9	15
52	Analytic approximations for the dynamic polarization effects due to Coulomb excitation. Nuclear Physics A, 1994, 580, 156-172.	1.5	14
53	Dipole Coulomb excitation in ^{11}Be scattering. Nuclear Physics A, 1997, 612, 82-90.	1.5	13
54	The $^6\text{Li}+^4\text{He}$ reaction at near-barrier energies. Physical Review C, 2019, 99, .	2.9	13

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55	New states in ^{18}Na and ^{19}Mg observed in the two-proton decay of ^{19}Mg . <i>Physical Review C</i> , 2012, 85, .	2.9	13
56	Transfer induced by core excitation within an extended distorted-wave Born approximation method. <i>Physical Review C</i> , 2015, 92, .	2.9	13
57	$^{208}\text{Pb}(^7\text{Li},^6\text{Li})^{209}\text{Pb}$ reaction at 33 MeV and its effect on elastic scattering. <i>Nuclear Physics A</i> , 1994, 575, 412-428.	1.5	12
58	Configuration localized wave functions: General formalism and applications to vibrational spectroscopy of diatomic molecules. <i>Physical Review A</i> , 2000, 61, .	2.5	12
59	Describing resonances in a discrete basis. <i>Physical Review C</i> , 2004, 69, .	2.9	12
60	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
61	Characterization and Validation of a-Si Magnetron-Sputtered Thin Films as Solid He Targets with High Stability for Nuclear Reactions. <i>ACS Omega</i> , 2016, 1, 1229-1238.	3.5	12
62	Anthropogenic contamination of an estuarine system evaluated by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 506-510.	1.4	11
63	<small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_info="http://www.elsevier.com/xml/common/struct-bib/dtd" xml:lang="en" xml:base="http://www.elsevier.com/xml/ja/dtd" id="tbl_struct_1" data-bbox="82 458 783 518">An algebraic model to describe atom-diatom inelastic collisions in the semiclassical approximation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i>, 2007, 40, 4513-4527.</small>	4.1	11
64	An algebraic model to describe atom-diatom inelastic collisions in the semiclassical approximation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 4513-4527.	1.5	11
65	Environmental control of Tinto and Odiel river basins by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 75, 334-337.	1.4	10
66	Continuum discretization using orthogonal polynomials. <i>Physical Review A</i> , 2003, 67, .	2.5	10
67	Interaction of He^8 with Pb^{208} at near-barrier energies: He^4 and He^6 production. <i>Physical Review C</i> , 2018, 98, .	2.9	10
68	Neutron transfer reactions induced by polarized ^7Li . <i>Nuclear Physics A</i> , 1989, 496, 403-428.	1.5	9
69	Combining PIXE and XRF with gamma-ray transmission to get accurate analysis of archaeological bronzes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 50, 226-230.	1.4	9
70	Dipole polarizability in deuteron scattering around the Coulomb barrier. <i>Nuclear Physics A</i> , 1999, 648, 141-156.	1.5	9
71	An approach to the study of the continuum effects in systems of interacting Morse oscillators. <i>Molecular Physics</i> , 2008, 106, 1275-1289.	1.7	9
72	A New Basis Set for Continuum Discretization. <i>Few-Body Systems</i> , 2001, , 217-224.	0.2	9

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73	Coupled-channel calculations for the elastic scattering of ^7Li by $^{40,48}\text{Ca}$ at 89 MeV. Nuclear Physics A, 1985, 440, 543-556.	1.5	8
74	Configuration localized Morse wave functions: Application to vibrational transitions in anharmonic diatomic molecules. Physical Review A, 1999, 59, 1852-1858.	2.5	8
75	Continuum coupling in one-dimensional scattering using a transformed harmonic oscillator basis. Physical Review A, 2002, 65, .	2.5	8
76	Matrix elements of u and p for the modified Pöschl-Teller potential. Journal of Physics A, 2004, 37, 5237-5242.	1.6	8
77	An approach to establish the connection between configuration and $su(n + 1)$ algebraic spaces in molecular physics: application to ammonia. Molecular Physics, 2017, 115, 3206-3223.	1.7	8
78	Research facilities and highlights at the Centro Nacional de Aceleradores (CNA). European Physical Journal Plus, 2021, 136, 1.	2.6	8
79	Tensor analyzing powers for ^7Li breakup. Physical Review C, 1995, 52, 3201-3211.	2.9	7
80	Continuum effects: Structure and reactions of ^6He . European Physical Journal: Special Topics, 2007, 150, 51-52.	2.6	7
81	An approach to establish a connection between algebraic and configuration spaces: $su(\hat{l} + 1)$ algebraic model for vibrational excitations. Molecular Physics, 2018, 116, 2254-2269.	1.7	7
82	Algebraic DVR Approaches Applied to Describe the Stark Effect. Symmetry, 2020, 12, 1719.	2.2	7
83	Tidal symmetry in nuclear reactions: application to the reaction cross sections of polarized projectiles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 185, 310-315.	4.1	6
84	Deviations from the adiabatic approximation in heavy-ion dynamic polarization potentials. Nuclear Physics A, 2003, 724, 113-124.	1.5	6
85	Tensor analyzing powers for ^7Li induced transfer breakup reactions. Physical Review C, 2004, 69, .	2.9	6
86	Binding-energy asymmetry in absorption explored through CDCC extended for complex potentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137252.	4.1	6
87	Analysis of proton transfer in polarized ^7Li scattering by ^{208}Pb at 33 MeV. Nuclear Physics A, 1998, 628, 203-220.	1.5	5
88	Semiclassical description of scattering with internal degrees of freedom. Nuclear Physics A, 1998, 636, 70-84.	1.5	5
89	Three-body approaches for inclusive breakup reactions. Nuclear Physics A, 2007, 787, 463-470.	1.5	5
90	Scattering of ^9Li on ^{208}Pb at energies around the Coulomb barrier. EPJ Web of Conferences, 2011, 17, 16002.	0.3	5

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91	Reaction of the Halo Nucleus ^{11}Be on Heavy Targets at Energies Around the Coulomb Barrier. Acta Physica Polonica B, 2014, 45, 375.	0.8	5
92	Determining astrophysical three-body radiative capture reaction rates from inclusive Coulomb break-up measurements. Physical Review C, 2016, 93, .	2.9	5
93	Unitary group approach to describe interatomic potentials in 3D systems. Molecular Physics, 2020, 118, e1662959.	1.7	5
94	Spurious effects of the pairing force on the dipole sum rule. Nuclear Physics A, 1991, 528, 144-158.	1.5	4
95	Deviations from tidal symmetry in polarized ^7Li excitation. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, 367-378.	3.6	4
96	Spin-orbit dynamic polarization potential due to dipole Coulomb excitation. Nuclear Physics A, 1997, 625, 685-696.	1.5	4
97	The uncorrelated scattering approximation for the scattering of weakly bound systems. Nuclear Physics A, 2001, 689, 547-550.	1.5	4
98	Uncorrelated scattering approximation for the scattering and breakup of weakly bound nuclei on heavy targets. Nuclear Physics A, 2001, 695, 143-166.	1.5	4
99	Elastic Scattering of $^8\text{He} + ^{208}\text{Pb}$ at 22 MeV. Acta Physica Polonica B, 2013, 44, 467.	0.8	4
100	Effect of dipole polarisation in the quadrupole Coulomb excitation. Journal of Physics G: Nuclear Physics, 1985, 11, L239-L243.	0.8	3
101	Geometric interpretation of the effect of the quadrupole force in the collisions of deformed nuclei. Physical Review C, 1992, 45, 1339-1346.	2.9	3
102	Threshold anomaly in non-central forces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 300, 303-307.	4.1	3
103	Analytic description of the scattering of electrons by molecules. Physical Review A, 1995, 51, 3799-3811.	2.5	3
104	Fusion of ^8He with ^{206}Pb around Coulomb barrier energies. EPJ Web of Conferences, 2011, 17, 16009.	0.3	3
105	Core excitation effects in the breakup of halo nuclei. , 2012, , .		3
106	Elastic and break-up of the $1n$ -halo ^{11}Be nucleus. EPJ Web of Conferences, 2014, 66, 03023.	0.3	3
107	Algebraic discrete variable representation approaches: application to interatomic effective potentials. Molecular Physics, 2021, 119, e1876264.	1.7	3
108	Reorientation and coupling effects in polarized heavy ion fusion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 218-222.	4.1	2

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109	A shell-model analysis of the proton emission from ^{31}Cl using Gamow wave functions. Nuclear Physics A, 2001, 694, 424-436.	1.5	2
110	STRUCTURE EFFECTS IN COLLISIONS INDUCED BY HALO AND WEAKLY BOUND NUCLEI AROUND THE COULOMB BARRIER. International Journal of Modern Physics E, 2010, 19, 1236-1240.	1.0	2
111	Structure effects in the reactions $^{9,10,11}\text{Be}+^{64}\text{Zn}$ at the Coulomb barrier. Journal of Physics: Conference Series, 2011, 267, 012012.	0.4	2
112	Elastic scattering and direct reactions of the $1n$ halo ^{11}Be nucleus on ^{64}Zn near the barrier. Journal of Physics: Conference Series, 2012, 381, 012050.	0.4	2
113	An algebraic approach to the collinear collision $N_{2} + N_{2}$ in the semiclassical approximation. International Journal of Quantum Chemistry, 2012, 112, 16-27.	2.0	2
114	Elastic Scattering for the $^{11}\text{Be}+^{64}\text{Zn}$ System Close to the Coulomb Barrier. Acta Physica Polonica B, 2013, 44, 463.	0.8	2
115	Near barrier scattering of ^8He on ^{208}Pb . EPJ Web of Conferences, 2014, 66, 03058.	0.3	2
116	Novel solid ^4He targets for experimental studies on nuclear reactions: $^6\text{Li} + ^4\text{He}$ differential cross-section measurement at incident energy of 5.5 MeV. European Physical Journal Plus, 2020, 135, 1.	2.6	2
117	Description of continuum structures in a discrete basis: Three-body resonances and two-nucleon decays. SciPost Physics Proceedings, 2020, , .	0.4	2
118	Comment on "Pairing interaction and Galilei invariance". Physical Review C, 1999, 59, 2952-2953.	2.9	1
119	Stabilization method in two-body systems with core excitations. , 2012, , .		1
120	Scattering of the halo nucleus ^{11}Li and its core ^9Li on ^{208}Pb at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2012, 381, 012085.	0.4	1
121	Reaction theory: Status and perspectives. EPJ Web of Conferences, 2016, 117, 06002.	0.3	1
122	Scattering of halo nuclei on heavy targets at energies around the Coulomb barrier: The case of ^{11}Be on ^{197}Au . EPJ Web of Conferences, 2017, 163, 00045.	0.3	1
123	Three-body radiative capture reactions. EPJ Web of Conferences, 2017, 165, 01010.	0.3	1
124	Experimental study of the nature of the $1s$ and $2s$ excited states in ^{11}Be and ^{11}Li . Journal of Physics: Conference Series, 2012, 381, 012085.		1
125	Polarisation in Nuclear Reaction. , 2002, , 1414-1432.		1
126	Study of the Near-barrier Scattering of ^8He on ^{208}Pb . Acta Physica Polonica B, 2016, 47, 841.	0.8	1

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127	Focus point on small and medium particle accelerator facilities in Europe. European Physical Journal Plus, 2021, 136, 1.	2.6	1
128	Scattering of low-energy electrons by polar molecules: An analytic approach. Physical Review A, 1998, 58, 1174-1182.	2.5	0
129	Continuum discretization for weakly bound nuclei. European Physical Journal D, 2002, 52, C563-C570.	0.4	0
130	Discretizing the Continuum. Few-Body Systems, 2004, 34, 45.	1.5	0
131	Uncorrelated scattering approximation revisited. Nuclear Physics A, 2005, 748, 112-135.	1.5	0
132	Detnax Project: Dispersion, Structure and Tracking of Exotic Nuclei. Nuclear Physics A, 2007, 787, 443-450.	1.5	0
133	Exploring the ${}^6\text{He}$ continuum sea through proton inelastic collisions. European Physical Journal: Special Topics, 2007, 150, 13-14.	2.6	0
134	Dynamic studies of ${}^{11}\text{Li}$ and its core ${}^9\text{Li}$ on ${}^{208}\text{Pb}$ near the Coulomb barrier. AIP Conference Proceedings, 2010, , .	0.4	0
135	Reactions induced by ${}^{11}\text{Be}$ beam at Rex-Isolde. EPJ Web of Conferences, 2011, 17, 13001.	0.3	0
136	Elastic scattering of Beryllium isotopes near the Coulomb barrier. , 2011, , .		0
137	Evidence of strong effects of the ${}^{11}\text{Be}$ halo structure on reaction processes at energies around the Coulomb barrier. Journal of Physics: Conference Series, 2011, 312, 082020.	0.4	0
138	An algebraic description of anharmonic diatom-diatom inelastic collisions in the semiclassical approximation. Molecular Physics, 2012, 110, 2003-2018.	1.7	0
139	Core excitation effects in halo nuclei using a transformed oscillator basis. , 2013, , .		0
140	Scattering of ${}^8\text{He}$ on ${}^{208}\text{Pb}$ at 22 MeV. , 2013, , .		0
141	Core excitations in the structure and reactions of halo nuclei. EPJ Web of Conferences, 2014, 66, 03053.	0.3	0
142	Scattering of light halo nuclei on heavy target at energies around the Coulomb barrier. EPJ Web of Conferences, 2014, 66, 03086.	0.3	0
143	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
144	${}^{11}\text{Li}$ structural information from inclusive break-up measurements. EPJ Web of Conferences, 2015, 88, 01003.	0.3	0

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145	Application of Gamov Wavefunctions to Beta Delayed Nucleon Emission. <i>Few-Body Systems</i> , 2001, , 188-195.	0.2	0
146	Recent Developments for the Calculation of Elastic and Non-elastic Breakup of Weakly-bound Nuclei. <i>Acta Physica Polonica B</i> , 2016, 47, 821.	0.8	0
147	Configuration localised states from orthogonal polynomials for effective potentials in 3D systems vs. algebraic DVR approaches. <i>Molecular Physics</i> , 0, , .	1.7	0