

M Dasgupta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12086449/publications.pdf>

Version: 2024-02-01

199
papers

8,847
citations

36303

51
h-index

45317

90
g-index

199
all docs

199
docs citations

199
times ranked

1171
citing authors

#	ARTICLE	IF	CITATIONS
1	MEASURING BARRIERS TO FUSION. Annual Review of Nuclear and Particle Science, 1998, 48, 401-461.	10.2	603
2	Barrier distributions from the fusion of oxygen ions with Sm144, 148, 154 and W186. Physical Review C, 1995, 52, 3151-3166.	2.9	357
3	Effect of breakup on the fusion of Li6, Li7, and Be9 with heavy nuclei. Physical Review C, 2004, 70, .	2.9	333
4	Fusion versus Breakup: Observation of Large Fusion Suppression for 9Be+208Pb. Physical Review Letters, 1999, 82, 1395-1398.	7.8	264
5	http://www.w3.org/1998/Math/MathML display="inline" < mml:mrow > < mml:mmultiscripts > < mml:mrow > < mml:mi > Ca < /mml:mi > < /mml:mrow > < mml:mprescripts /> < mml:none /> < mml:mrow > < mml:mn > 48 < /mml:mn > < /mml:mrow > < /mml:mmultiscripts > < mml:mo > + < /mml:mo > < mml:mmultiscripts > < mml:mrow > < /mml:mrow > < mml:mn > 249 < /mml:mn > < /mml:mrow > < /mml:mmultiscripts > < /mml:mrow > < /mml:math > Fusion	7.8	220
6	Fusion-Fission versus Quasifission: Effect of Nuclear Orientation. Physical Review Letters, 1995, 74, 1295-1298.	7.8	217
7	Conclusive evidence for the influence of nuclear orientation on quasifission. Physical Review C, 1996, 53, 1290-1300.	2.9	215
8	Systematic failure of the Woods-Saxon nuclear potential to describe both fusion and elastic scattering: Possible need for a new dynamical approach to fusion. Physical Review C, 2004, 70, .	2.9	204
9	Coupled-channels analysis of the 16O+208Pb fusion barrier distribution. Physical Review C, 1999, 60, .	2.9	193
10	Probing fusion barrier distributions with quasi-elastic scattering. Nuclear Physics A, 1995, 584, 190-204.	1.5	173
11	Beyond the Coherent Coupled Channels Description of Nuclear Fusion. Physical Review Letters, 2007, 99, 192701.	7.8	170
12	Fusion and breakup in the reactions of 6Li and 7Li nuclei with 209Bi. Physical Review C, 2002, 66, .	2.9	168
13	Unexpected inhibition of fusion in nucleus-nucleus collisions. Nature, 2001, 413, 144-147.	27.8	167
14	Comprehensive study of reaction mechanisms for the Be9+Sm144 system at near- and sub-barrier energies. Physical Review C, 2006, 73, .	2.9	144
15	Relating Breakup and Incomplete Fusion of Weakly Bound Nuclei through a Classical Trajectory Model with Stochastic Breakup. Physical Review Letters, 2007, 98, 152701.	7.8	141
16	Mechanisms and systematics of breakup in reactions of ${}^9\text{Be}$ at near-barrier energies. Physical Review C, 2010, 81, .	2.9	134
17	Mapping quasifission characteristics and timescales in heavy element formation reactions. Physical Review C, 2013, 88, .	2.9	130
18	Experimental barrier distributions for the fusion of ${}^{12}\text{C}$, ${}^{16}\text{O}$, ${}^{28}\text{Si}$, and ${}^{35}\text{Cl}$ with ${}^{92}\text{Zr}$ and coupled-channels analyses. Physical Review C, 2001, 64, .	2.9	129

#	ARTICLE	IF	CITATIONS
19	Fusion Suppression and Sub-Barrier Breakup of Weakly Bound Nuclei. Physical Review Letters, 2002, 89, 272701.	7.8	129
20	Insights into the mechanisms and time-scales of breakup of 6,7 Li. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 105-109.	4.1	124
21	Interplay between Quantum Shells and Orientation in Quasifission. Physical Review Letters, 2014, 113, 182502.	7.8	119
22	Direct and compound reactions induced by unstable helium beams near the Coulomb barrier. Physical Review C, 2004, 70, .	2.9	108
23	Strong evidence for quasifission in asymmetric reactions forming ^{202}Po . Physical Review C, 2008, 77, .	2.9	108
24	Double folding nucleus-nucleus potential applied to heavy-ion fusion reactions. Physical Review C, 2004, 69, .	2.9	106
25	Influence of entrance-channel magicity and isospin on quasi-fission. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 607-611.	4.1	103
26	Resolution of the anomalous fission fragment anisotropies for the $^{16}\text{O}+^{208}\text{Pb}$ reaction. Physical Review C, 1995, 52, 243-251.	2.9	101
27	Severe Inhibition of Fusion by Quasifission in Reactions Forming ^{220}Th . Physical Review Letters, 2002, 89, 282701.	7.8	97
28	Predominance of transfer in triggering breakup in sub-barrier reactions of ^6Li with ^{144}Sm . Physical Review Letters, 1998, 81, 2007-2010.	2.9	97
29	Fusion of $^{28}\text{Si}+^{68}\text{Zn}$, $^{32}\text{S}+^{64}\text{Ni}$, $^{37}\text{Cl}+^{59}\text{Co}$ and $^{45}\text{Sc}+^{51}\text{V}$ in the vicinity of the Coulomb barrier. Nuclear Physics A, 1992, 539, 351-369.	1.5	95
30	Clear signatures of specific inelastic and transfer channels in the distribution of fusion barriers. Physical Review Letters, 1994, 72, 4074-4077.	7.8	95
31	Suppression of complete fusion due to breakup in the reactions $^{10}\text{B}+^{208}\text{Pb}$ and $^{11}\text{B}+^{208}\text{Pb}$. Physical Review Letters, 2002, 89, 282701.	7.8	95
32	Predominant Time Scales in Fission Processes in Reactions of S, Ti and Ni with W: Zeptosecond versus Attosecond. Physical Review Letters, 2011, 106, 052701.	7.8	93
33	Entrance channel dependence of quasifission in reactions forming ^{220}Th . Physical Review C, 2008, 77, .	2.9	85
34	Adiabatic Quantum Tunneling in Heavy-Ion Sub-barrier Fusion. Physical Review Letters, 1997, 79, 2014-2017.	7.8	82
35	Failure of the Woods-Saxon nuclear potential to simultaneously reproduce precise fusion and elastic scattering measurements. Physical Review C, 2007, 75, .	2.9	81
36	How the Pauli exclusion principle affects fusion of atomic nuclei. Physical Review C, 2017, 95, .	2.9	80

#	ARTICLE	IF	CITATIONS
37	Systematics of precise nuclear fusion cross sections: the need for a new dynamical treatment of fusion?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 219-224.	4.1	77
38	Strong dependence of sub-barrier fusion on the nuclear hexadecapole deformation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 316, 32-37.	4.1	75
39	Fusion cross sections at deep sub-barrier energies. Physical Review C, 2003, 67, .	2.9	74
40	Validity of the linear coupling approximation in heavy-ion fusion reactions at sub-barrier energies. Physical Review C, 1997, 55, 276-284.	2.9	73
41	Microscopic approach to coupled-channels effects on fusion. Physical Review C, 2013, 88, .	2.9	72
42	Two Distinct Quasifission Modes in the $S + Th$ Reaction. Physical Review Letters, 2008, 101, 092701.	7.8	66
43	Precise fission fragment anisotropies for the $^{12}C + ^{232}Th$ reaction: Supporting the nuclear orientation dependence of quasifission. Physical Review C, 1997, 55, R995-R998.	2.9	64
44	Elastic scattering and fusion of $Be_9 + Pb_{208}$: Density function dependence of the double folding renormalization. Physical Review C, 2004, 69, .	2.9	63
45	Disentangling Effects of Nuclear Structure in Heavy Element Formation. Physical Review Letters, 2008, 100, 202701.	7.8	59
46	Probing surface diffuseness of nucleus-nucleus potential with quasielastic scattering at deep sub-barrier energies. Physical Review C, 2006, 73, .	2.9	55
47	Competition between fusion-fission and quasi-fission in the reaction $^{28}Si + ^{208}Pb$. Nuclear Physics A, 1995, 592, 271-289.	1.5	54
48	Cluster transfer in the reaction $^{16}O + ^{208}Pb$. Physical Review C, 2013, 88, .	2.9	54
49	Evolution of signatures of quasifission in reactions forming curium. Physical Review C, 2013, 88, .	2.9	54
50	Disentangling the reaction mechanisms of weakly bound nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 356-361.	4.1	53
51	Dissipative quantum dynamics in low-energy collisions of complex nuclei. Physical Review C, 2008, 78, .	2.9	52
52	Suppression of fusion by breakup: Resolving the discrepancy between the reactions of $Be + Pb$ with ^{9}Be . Physical Review C, 2015, 91, .	2.9	52
53	Observation of mass-asymmetric fission of mercury nuclei in heavy ion fusion. Physical Review C, 2015, 91, .	2.9	49
54	Reduced quasifission competition in fusion reactions forming neutron-rich heavy elements. Physical Review C, 2015, 91, .	2.9	49

#	ARTICLE	IF	CITATIONS
55	Limiting angular momentum for statistical model description of fission. Physical Review C, 1999, 60, .	2.9	48
56	Systematic behavior of mass distributions in ^{48}Ti -induced fission at near-barrier energies. Physical Review C, 2012, 85, .	2.9	48
57	Breakup and transfer processes in the $^9\text{Be}+^{208}\text{Pb}$ reaction. Physical Review C, 2003, 68, .	2.9	47
58	Dominance of collective over proton transfer couplings in the fusion of ^{32}S and ^{34}S with ^{89}Y . Physical Review C, 2002, 66, .	2.9	46
59	Systematic study of the nuclear potential diffuseness through high precision back-angle quasi-elastic scattering. Physical Review C, 2008, 78, .	2.9	45
60	Fusion excitation function measurements for the $^{16}\text{O}+^{58}\text{Ni}$ and $^{16}\text{O}+^{62}\text{Ni}$ systems. Nuclear Physics A, 1998, 628, 1-16.	1.5	44
61	Origins of Incomplete Fusion Products and the Suppression of Complete Fusion in Reactions of ^7Li with ^{208}Pb . Physical Review Letters, 2019, 122, 102501.	7.8	44
62	Search for elements 119 and 120. Physical Review C, 2020, 102, .	2.9	41
63	Barrier distributions from elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 23-29.	4.1	40
64	Experimental study of the quasifission, fusion-fission, and de-excitation of Cf compound nuclei. Physical Review C, 2015, 91, .	2.9	40
65	Systematic study of the nuclear potential through high precision back-angle quasi-elastic scattering measurements. Physical Review C, 2007, 76, .	2.9	39
66	Role of Entrance-channel Dynamics in Heavy Element Synthesis. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 31-38.	0.7	37
67	Importance of lifetime effects in breakup and suppression of complete fusion in reactions of weakly bound nuclei. Physical Review C, 2016, 93, .	2.9	37
68	New challenges in understanding heavy ion fusion. Nuclear Physics A, 2007, 787, 144-149.	1.5	36
69	Sub-barrier quasifission in heavy element formation reactions with deformed actinide target nuclei. Physical Review C, 2018, 97, .	2.9	36
70	Systematic analysis of above-barrier fusion of ^9Be with ^{208}Pb . Physical Review Letters, 2019, 122, 102501.	7.8	35
71	Systematic analysis of above-barrier fusion of ^7Li with ^{208}Pb . Physical Review Letters, 2019, 122, 102501.	7.8	35
72	Isotopic dependence of fusion barrier energies in reactions forming heavy elements. Physical Review C, 2007, 75, .	2.9	34

#	ARTICLE	IF	CITATIONS
73	Exploring Zepetosecond Quantum Equilibration Dynamics: From Deep Inelastic to Fusion-Fission Outcomes in $\langle \langle \mathbb{M} \rangle \rangle_{\text{Ni}}$	7.8	34
74	Absence of fusion suppression due to breakup in the $^{12}\text{C}+^7\text{Li}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 295-300.	4.1	33
75	Multinucleon transfer in $\text{O}^{16}, ^{18}\text{F}, ^{19}\text{F}+\text{Pb}^{208}$ reactions at energies near the fusion barrier. Physical Review C, 2016, 94, .	2.9	33
76	Mechanisms Suppressing Superheavy Element Yields in Cold Fusion Reactions. Physical Review Letters, 2019, 122, 232503.	7.8	32
77	Yrast isomers, multi-quasiparticle states and blocking in ^{176}Ta and ^{177}Ta . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 16-21.	4.1	30
78	Semi-microscopic calculations of the fusion barrier distributions for reactions involving deformed target nuclei. Physical Review C, 2006, 73, .	2.9	30
79	The Nuclear Potential in Heavy-Ion Fusion. Progress of Theoretical Physics Supplement, 2004, 154, 209-216.	0.1	29
80	A new framework to investigate the systematics of fusion probabilities in heavy element formation: Application to Th isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 622, 23-28.	4.1	29
81	Memory of the entrance-channel Kdistribution observed in fission at high angular momentum. Physical Review C, 2000, 62, .	2.9	28
82	Rotation of an Eight-Quasiparticle Isomer. Physical Review Letters, 1995, 75, 406-409.	7.8	27
83	Barrier distributions and scattering. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1175-1181.	3.6	26
84	Disintegration locations in $^7\text{Li}+\text{Be}^{10}$ fusion reaction	2.9	26
85	Transfer-triggered fusion reaction $^8\text{S}+\text{Th}^{232}$	2.9	26
86	$^8\text{S}+\text{Ca}$ fusion reaction leading to ^{48}Bk	2.9	26

#	ARTICLE	IF	CITATIONS
91	Importance of entrance channel dynamics on heavy element formation. Nuclear Physics A, 2004, 734, 148-155.	1.5	24
92	Fusion and breakup in the reactions of $6,7\text{Li}$ and 9Be . Nuclear Physics A, 2004, 738, 475-478.	1.5	24
93	Complete fusion enhancement and suppression of weakly bound nuclei at near barrier energies. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 115103.	3.6	24
94	Interplay of charge clustering and weak binding in reactions of ^8Li . Physical Review C, 2018, 97, .	2.9	24
95	Systematics of the mass-asymmetric fission of excited nuclei from ^{176}Os to ^{206}Pb . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135941.	4.1	23
96	Intrinsic states and rotational bands in ^{175}Ta . Nuclear Physics A, 1996, 601, 195-233.	1.5	22
97	SOLITAIRE: A new generation solenoidal fusion product separator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 614, 119-129.	1.6	22
98	Examining the role of transfer coupling in sub-barrier fusion of ^{46}Ti . Physical Review C, 2016, 94, .	2.9	22
99	Competition between high-K states and rotational structures in ^{177}Ta . Physical Review C, 2000, 61, .	2.9	21
100	Influence of higher-order deformations in the $^{34}\text{S}+^{168}\text{Er}$ fusion reaction. Physical Review C, 2001, 64, .	2.9	21
101	Reaction dynamics of weakly bound nuclei at near-barrier energies. Nuclear Physics A, 2010, 834, 147c-150c.	1.5	21
102	Fusion and quasifission studies for the $^{40}\text{Ca}+^{186}\text{W}$. Physical Review C, 2019, .	2.9	21
103	SOLEROO: A solenoidal exotic rare isotope separator at the Australian National University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 631, 12-21.	1.6	20
104	Evidence for the Role of Proton Shell Closure in Quasifission Reactions from X-Ray Fluorescence of Mass-Identified Fragments. Physical Review Letters, 2017, 119, 222502.	7.8	20
105	Probing the tail of the nuclear potential between identical nuclei with quasi-elastic Mott scattering. Physical Review C, 2007, 76, .	2.9	19
106	Mass-asymmetric fission of ^{205}Bi at energies close to the fission barrier using proton bombardment of ^{207}Pb . Physical Review C, 2009, .	2.9	18
107	Loss of memory of target nucleus deformation axis in heavy-ion fusion-fission. Physical Review C, 2000, 62, .	2.9	17
108	Importance of geometrical corrections to fusion barrier calculations for deformed nuclei. Physical Review C, 2002, 65, .	2.9	17

#	ARTICLE	IF	CITATIONS
109	Surface diffuseness of nuclear potential from heavy-ion fusion reactions. Nuclear Physics A, 2003, 722, C479-C483.	1.5	16
110	Nuclear structure dependence of fusion hindrance in heavy element synthesis. Physical Review C, 2018, 97, .	2.9	15
111	Interplay of spherical closed shells and N/Z asymmetry in quasifission dynamics. Physical Review C, 2018, 97, .	2.9	14
112	Importance of nonlinear couplings in fusion-barrier distributions and mean angular momenta. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1413-1421.	3.6	13
113	Measurement of the effect of large deformation-aligned ground-state spin on fission fragment anisotropies. Physical Review C, 2002, 66, 054602.	2.9	13
114	Systematic evidence for quasifission in $^{13}\text{C} + ^{238}\text{U}$ collisions. Physical Review C, 2018, 97, .	2.9	13
115	Capture cross sections for the synthesis of new heavy nuclei using radioactive beams. Physical Review C, 2018, 97, .	2.9	12
116	First Study on Nihonium (Nh, Element 113) Chemistry at TASCA. Frontiers in Chemistry, 2021, 9, 753738.	3.6	12
117	Evidence of double phonon excitations in the fusion of Pb. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1491-1496.	3.6	11
118	Investigation of the role of neutron transfer in the fusion of ^{32}S with ^{197}Au , ^{208}Pb using quasi-elastic scattering. Nuclear Physics A, 2002, 712, 14-22.	1.5	10
119	Optimising conditions for production of ^6He , ^8Li , ^{10}Be and ^{12}B radioactive ion beams with the SOLEROO separator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 646, 174-183.	1.6	10
120	Effects of nuclear structure on quasi-fission. EPJ Web of Conferences, 2012, 38, 09001.	0.3	10
121	Entrance channel effects on the quasifission reaction channel in $\text{Cr} + \text{AW}$ systems. Physical Review C, 2019, 99, .	2.9	10
122	Barrier distributions as a tool to investigate fusion and fission. Nuclear Physics A, 1998, 630, 78-91.	1.5	9
123	Quantum coherence and decoherence in low energy nuclear collisions: from superposition to irreversibility. Nuclear Physics A, 2010, 834, 117c-122c.	1.5	9
124	Sensitive search for near-symmetric and super-asymmetric fusion-fission of the superheavy element Flerovium ($Z=114$). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136601.	4.1	9
125	Fusion near and below the Barrier: New Results and Challenges. AIP Conference Proceedings, 2006, , .	0.4	8
126	Investigating quasi-fission dynamics through mass-angle distributions. Journal of Physics: Conference Series, 2013, 420, 012115.	0.4	8

#	ARTICLE	IF	CITATIONS
127	An Ion Beam Tracking System based on a Parallel Plate Avalanche Counter. EPJ Web of Conferences, 2013, 63, 02022.	0.3	8
128	Quasifission in heavy and superheavy element formation reactions. EPJ Web of Conferences, 2016, 131, 04004.	0.3	8
129	Energy dissipation and suppression of capture cross sections in heavy ion reactions. Physical Review C, 2021, 103, .	2.9	8
130	Memory of entrance-channel deformation for fast-fission. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 160-164.	4.1	7
131	Dynamical interplay of fusion and fission in low-energy nucleus-nucleus collisions. Nuclear Physics A, 2001, 685, 72-79.	1.5	7
132	Effects of finite ground-state spin on fission fragment angular distributions following collisions with spherical or deformed nuclei. Physical Review C, 2002, 65, .	2.9	7
133	Coulomb nuclear interference as a tool to investigate the nuclear potential. Physical Review C, 2010, 81, .	2.9	7
134	A complete picture of the breakup in ^6Li -induced reactions. EPJ Web of Conferences, 2011, 17, 03002.	0.3	7
135	Correlated oscillations in the excitation functions of deep-inelastic collisions: evidence for nuclear pulsars?. Zeitschrift für Physik A, 1997, 359, 263-270.	0.9	6
136	Insights into the dynamics of fusion forming heavy elements. Nuclear Physics A, 2007, 787, 176-183.	1.5	6
137	Recent developments of SOLEROO: Australia's first high energy radioactive Ion Beam capability. EPJ Web of Conferences, 2015, 91, 00001.	0.3	6
138	Mass Equilibration and Fluctuations in the Angular Momentum Dependent Dynamics of Heavy Element Synthesis Reactions. Physical Review Letters, 2021, 127, 222501.	7.8	6
139	Comment on "Anomalous Peaklike Structure in the Fission Fragment Anisotropies at Sub-barrier Energies in $^{11}\text{B}, ^{12}\text{C}, ^{16}\text{O}, ^{19}\text{F} + ^{232}\text{Th}$ Reactions". Physical Review Letters, 1998, 81, 4777-4777.	7.8	5
140	Exploratory studies towards fusion with the ^{16}Li -isomer of ^{178}Hf . Physical Review C, 2003, 68, .	2.9	5
141	Energy dependence of fission mass distributions: Mass-asymmetric standard I and standard II modes, and multichance fission. Physical Review C, 2022, 105, .	2.9	5
142	Yields of evaporation residues and average angular momentum in heavy ion induced fusion reactions leading to compound nucleus ^{96}Ru . Pramana - Journal of Physics, 1992, 38, 291-312.	1.8	4
143	Influence of entrance channel properties on heavy-ion reaction dynamics. European Physical Journal A, 2002, 13, 149-154.	2.5	4
144	Mass-angle distributions. EPJ Web of Conferences, 2014, 66, 03037.	0.3	4

#	ARTICLE	IF	CITATIONS
145	Insights into nuclear reactions through fusion barrier distribution measurements. Nuclear Physics A, 1999, 654, 864c-869c.	1.5	3
146	Measurement of Fusion Excitation Functions using a Novel Superconducting Solenoid. AIP Conference Proceedings, 2006, , .	0.4	3
147	COMPLETE CHARACTERIZATION OF BREAKUP OF ^9Be BY $\hat{I}_{\pm}\hat{I}_{\pm}$ COINCIDENCE MEASUREMENTS. International Journal of Modern Physics E, 2011, 20, 835-838.	1.0	3
148	Determination of the angular distribution of evaporation residues following transmission through the superconducting solenoidal separator SOLITAIRE. EPJ Web of Conferences, 2012, 35, 05003.	0.3	3
149	Fission fragment mass distribution in the $^{13}\text{C}+^{182}\text{W}$ and ^{176}Yb reactions. EPJ Web of Conferences, 2013, 63, 02017.	0.3	3
150	Mapping quasifission characteristics in heavy element formation reactions. EPJ Web of Conferences, 2015, 86, 00015.	0.3	3
151	Effect of Pauli repulsion and transfer on fusion. EPJ Web of Conferences, 2017, 163, 00055.	0.3	3
152	Novel Recoil Spectrometer for Characterising Nuclei Far From Stability. AIP Conference Proceedings, 2006, , .	0.4	2
153	Coupled-Channels Approach for Dissipative Quantum Dynamics in Near-Barrier Collisions. , 2009, , .		2
154	Reconstructing breakup at sub-barrier energies. EPJ Web of Conferences, 2012, 35, 05007.	0.3	2
155	Probing quantum many-body dynamics in nuclear systems. EPJ Web of Conferences, 2013, 63, 02001.	0.3	2
156	Comparing Experimental and Theoretical Quasifission Mass Angle Distributions. EPJ Web of Conferences, 2015, 86, 00061.	0.3	2
157	Systematic study of quasifission characteristics and timescales in heavy element formation reactions. EPJ Web of Conferences, 2016, 117, 08006.	0.3	2
158	Nuclear structure effects in quasifission \hat{a} understanding the formation of the heaviest elements. EPJ Web of Conferences, 2016, 123, 03005.	0.3	2
159	Quasifission Dynamics in the Formation of Superheavy Elements. EPJ Web of Conferences, 2017, 163, 00023.	0.3	2
160	High-precision proton angular distribution measurements of C for the determination of the σ_{p}		2
161	Classical dynamical modelling of near-barrier breakup. EPJ Web of Conferences, 2017, 163, 00056.	0.3	2
162	SURFACE DIFFUSENESS ANOMALY IN HEAVY-ION FUSION POTENTIALS. , 2003, , .		2

#	ARTICLE	IF	CITATIONS
163	Fusion barrier distributions and fission anisotropies. Nuclear Physics A, 1995, 583, 135-139.	1.5	1
164	Exploiting barrier distributions to investigate breakup effects in the fusion of $9\text{Be}+208\text{Pb}$. Pramana - Journal of Physics, 1999, 53, 513-520.	1.8	1
165	Fusion around the barrier for $7\text{Li}+12\text{C}$. Pramana - Journal of Physics, 2001, 57, 195-198.	1.8	1
166	Insights into the influence of breakup on fusion through reactions with weakly bound stable nuclei. Nuclear Physics A, 2003, 722, C196-C201.	1.5	1
167	The finite size effects in fusion of deformed nuclei at incident energies near the barrier. Physics of Atomic Nuclei, 2006, 69, 1428-1433.	0.4	1
168	Quasifission and Shell Effects in Reactions Forming 266Sg . EPJ Web of Conferences, 2012, 35, 05008.	0.3	1
169	Sub-barrier transfer in $^{16}\text{O}+^{208}\text{Pb}$ and $^{32}\text{S}+^{208}\text{Pb}$ and its role in understanding the suppression of fusion. EPJ Web of Conferences, 2012, 35, 05005.	0.3	1
170	(Multi-)nucleon transfer in the reactions $^{16}\text{O}+^{32}\text{S}+^{208}\text{Pb}$. Journal of Physics: Conference Series, 2013, 420, 012129.	0.4	1
171	Dynamics and Time-scales in Breakup and Fusion. Journal of Physics: Conference Series, 2013, 420, 012116.	0.4	1
172	Study of fusion reactions forming Cf nuclei. EPJ Web of Conferences, 2013, 63, 02015.	0.3	1
173	Nuclear Reaction Dynamics Research at the Australian National University. EPJ Web of Conferences, 2013, 63, 02005.	0.3	1
174	Microscopic study of the effect of intrinsic degrees of freedom on fusion. EPJ Web of Conferences, 2015, 86, 00047.	0.3	1
175	Breakup following interactions with light targets: Investigating new methods to probe nuclear physics input to the cosmological lithium problem.. EPJ Web of Conferences, 2015, 91, 00002.	0.3	1
176	Resonances in transfer-triggered breakup of 7Li in near-barrier collisions. EPJ Web of Conferences, 2016, 123, 03002.	0.3	1
177	Mass-asymmetric fission in the $^{40}\text{Ca}+^{142}\text{Nd}$ reaction. EPJ Web of Conferences, 2016, 123, 03006.	0.3	1
178	Fission cross sections as a probe of fusion dynamics at high angular momentum. Physical Review C, 2018, 98, .	2.9	1
179	Determination of angular distributions from the high efficiency solenoidal separator SOLITAIRE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 968, 163872.	1.6	1
180	Systematic Study of Quasifission in ^{48}Ca -induced reactions. EPJ Web of Conferences, 2020, 232, 03007.	0.3	1

#	ARTICLE	IF	CITATIONS
181	Measuring precise fusion cross sections using an 8T superconducting solenoid. EPJ Web of Conferences, 2020, 232, 03003.	0.3	1
182	Complete fusion enhancement and suppression of weakly bound nuclei at near barrier energies. EPJ Web of Conferences, 2012, 38, 09004.	0.3	0
183	Applications of a 6.5T Superconducting Solenoidal Separator. EPJ Web of Conferences, 2012, 35, 05006.	0.3	0
184	Breakup mechanisms for ${}^7\text{Li} + {}^{197}\text{Au}, {}^{204}\text{Pb}$ systems at sub-barrier energies. EPJ Web of Conferences, 2013, 63, 02004.	0.3	0
185	Many-body Quantum Reaction Dynamics near the Fusion Barrier. EPJ Web of Conferences, 2014, 66, 01003.	0.3	0
186	How signatures of quasifission evolve in reactions forming Curium. EPJ Web of Conferences, 2015, 86, 00063.	0.3	0
187	Dynamical approach to heavy ion-induced fission. EPJ Web of Conferences, 2015, 91, 00005.	0.3	0
188	Investigating energy dissipation through nucleon transfer reactions. EPJ Web of Conferences, 2015, 91, 00010.	0.3	0
189	Breakup locations: Intertwining effects of nuclear structure and reaction dynamics. EPJ Web of Conferences, 2016, 117, 08005.	0.3	0
190	Exploring dissipative processes at high angular momentum in ${}^{58}\text{Ni} + {}^{60}\text{Ni}$ reactions. EPJ Web of Conferences, 2016, 117, 08021.	0.3	0
191	Probing cluster structures through sub-barrier transfer reactions. EPJ Web of Conferences, 2016, 123, 03004.	0.3	0
192	Challenges in describing nuclear reactions outcomes at near-barrier energies. Journal of Physics: Conference Series, 2017, 777, 012013.	0.4	0
193	Determination of Precision Fusion Cross Sections Using a High Efficiency Superconducting Solenoidal Separator. EPJ Web of Conferences, 2017, 163, 00005.	0.3	0
194	Investigating fusion dynamics at high angular momentum via fission cross sections. EPJ Web of Conferences, 2017, 163, 00042.	0.3	0
195	Applications of a superconducting solenoidal separator in the experimental investigation of nuclear reactions. Journal of Physics: Conference Series, 2017, 777, 012006.	0.4	0
196	First Elastic Scattering Measurement of ${}^8\text{Li}$ on ${}^{209}\text{Bi}$ at the Australian National University. EPJ Web of Conferences, 2017, 163, 00052.	0.3	0
197	FUSION OF WEAKLY BOUND STABLE NUCLEI - WHAT CAN WE LEARN?. , 2001, , .		0
198	INHIBITION OF FUSION BY QUASI-FISSION IN HEAVY ELEMENT FORMATION. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
199	Results on the Influence of Neutron-Richness on Quasifission in Intermediate Mass Reactions. , 2017, , .		0