M Dasgupta

List of Publications by Year
in descending order

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

Version: 2024-02-01

		36303	45317
199	8,847	51	90
papers	citations	h-index	g-index

199	199	199	1171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy dependence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mmultiscripts /><mml:none /><mml:mn>232</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> fission mass distributions: Mass-asymmetric standard I and standard II modes, and multichance fission. Physical Review C, 2022, 105, .	2.9	5
2	Energy dissipation and suppression of capture cross sections in heavy ion reactions. Physical Review C, 2021, 103, .	2.9	8
3	Experimental studies of the competition between fusion and quasifission in the formation of heavy and superheavy nuclei. Progress in Particle and Nuclear Physics, 2021, 118, 103856.	14.4	25
4	High-precision proton angular distribution measurements of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>12</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:msup><mml:mi for the determination of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi. Physical Review C, 2021, 104,	2.9	2
5	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
6	Mass Equilibration and Fluctuations in the Angular Momentum Dependent Dynamics of Heavy Element Synthesis Reactions. Physical Review Letters, 2021, 127, 222501.	7.8	6
7	First Study on Nihonium (Nh, Element 113) Chemistry at TASCA. Frontiers in Chemistry, 2021, 9, 753738.	3.6	12
8	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
9	Zeptosecond contact times for element Z=120 synthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135626.	4.1	25
10	Systematics of the mass-asymmetric fission of excited nuclei from 176Os to 206Pb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135941.	4.1	23
11	Systematic evidence for quasifission in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>9</mml:mn></mml:mmultiscripts><mml:mtext>â^'</mml:mtext><mml:mo>,</mml:mo></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>12</mml:mn></mml:mmu	2.9	13
12	Systematic Study of Quasifission in 48Ca-induced reactions. EPJ Web of Conferences, 2020, 232, 03007.	0.3	1
13	Search for elements 119 and 120. Physical Review C, 2020, 102, .	2.9	41
14	Mass-asymmetric fission of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Bi</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>205</mml:mn><mml:mo>,</mml:mo><mml:mn>207</mml:mn><mml:mo>,</mml:mo><mml:mn>209</mml: at energies close to the fission barrier using proton bombardment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pb</mml:mi><mml:mprescripts	2.9	18
15	Measuring precise fusion cross sections using an 8T superconducting solenoid. EPJ Web of Conferences, 2020, 232, 03003.	0.3	1
16	Entrance channel effects on the quasifission reaction channel in Cr +ÂW systems. Physical Review C, 2019, 99, .	2.9	10
17	Mechanisms Suppressing Superheavy Element Yields in Cold Fusion Reactions. Physical Review Letters, 2019, 122, 232503.	7.8	32
18	Fusion reaction <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>48</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Bk</mml:mi><mml:mprescripts /><mml:none /><mml:mn>249</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> leading to		

#	Article	IF	Citations
19	Origin of Incomplete Fusion Products and the Suppression of Complete Fusion in Reactions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2019, 122, 102501.	7.8	44
20	Sub-barrier quasifission in heavy element formation reactions with deformed actinide target nuclei. Physical Review C, 2018, 97, .	2.9	36
21	Capture cross sections for the synthesis of new heavy nuclei using radioactive beams. Physical Review C, 2018, 97, .	2.9	12
22	Interplay of charge clustering and weak binding in reactions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>8</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2018, 97, .	2.9	24
23	Exploring Superheavy Quantum Localization Dynamics From Deep Inelastic Fusion Fission Outcomes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>58</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:mmultiscripts></mml:. Physical	7.8	34
24	Fission cross sections as a probe of fusion dynamics at high angular momentum. Physical Review C, 2018, 98, .	2.9	1
25	Nuclear structure dependence of fusion hindrance in heavy element synthesis. Physical Review C, 2018, 97, .	2.9	15
26	Interplay of spherical closed shells and N/Z asymmetry in quasifission dynamics. Physical Review C, 2018, 97, .	2.9	14
27	How the Pauli exclusion principle affects fusion of atomic nuclei. Physical Review C, 2017, 95, .	2.9	80
28	Fusion and quasifission studies for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>40</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">W</mml:mi><mml:mprescripts /><mml:none /><mml:mn>186</mml:mn></mml:mmultiscripts><mml:mo>,</mml:mo><mml:mmultiscripts><mml:mi mat	2.9	21
29	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
30	Effect of Pauli repulsion and transfer on fusion. EPJ Web of Conferences, 2017, 163, 00055.	0.3	3
31	Challenges in describing nuclear reactions outcomes at near-barrier energies. Journal of Physics: Conference Series, 2017, 777, 012013.	0.4	0
32	Determination of Precision Fusion Cross Sections Using a High Efficiency Superconducting Solenoidal Separator. EPJ Web of Conferences, 2017, 163, 00005.	0.3	0
33	Investigating fusion dynamics at high angular momentum via fission cross sections. EPJ Web of Conferences, 2017, 163, 00042.	0.3	0
34	Applications of a superconducting solenoidal separator in the experimental investigation of nuclear reactions. Journal of Physics: Conference Series, 2017, 777, 012006.	0.4	0
35	Quasifission Dynamics in the Formation of Superheavy Elements. EPJ Web of Conferences, 2017, 163, 00023.	0.3	2
36	First Elastic Scattering Measurement of 8Li on 209Bi at the Australian National University. EPJ Web of Conferences, 2017, 163, 00052.	0.3	0

#	Article	IF	Citations
37	Classical dynamical modelling of near-barrier breakup. EPJ Web of Conferences, 2017, 163, 00056.	0.3	2
38	Results on the Influence of Neutron-Richness on Quasifission in Intermediate Mass Reactions. , 2017, , .		0
39	Breakup locations: Intertwining effects of nuclear structure and reaction dynamics. EPJ Web of Conferences, 2016, 117, 08005.	0.3	0
40	Systematic study of quasifission characteristics and timescales in heavy element formation reactions. EPJ Web of Conferences, 2016, 117, 08006.	0.3	2
41	Quasifission in heavy and superheavy element formation reactions. EPJ Web of Conferences, 2016, 131, 04004.	0.3	8
42	Exploring dissipative processes at high angular momentum in58Ni+60Ni reactions. EPJ Web of Conferences, 2016, 117, 08021.	0.3	0
43	Probing cluster structures through sub-barrier transfer reactions. EPJ Web of Conferences, 2016, 123, 03004.	0.3	0
44	Resonances in transfer-triggered breakup of7Li in near-barrier collisions. EPJ Web of Conferences, 2016, 123, 03002.	0.3	1
45	Mass-asymmetric fission in the40ca+142Nd reaction. EPJ Web of Conferences, 2016, 123, 03006.	0.3	1
46	Examining the role of transfer coupling in sub-barrier fusion of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ti</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>46</mml:mn><mml:mo>,</mml:mo><mml:mn>50</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>124</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2016, 94, .	2.9	22
47	Multinucleon transfer inO16,18,F19+Pb208reactions at energies near the fusion barrier. Physical Review C, 2016, 94, .	2.9	33
48	Disintegration locations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>â†’</mml:mo><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>8</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>breakup: Quasifission characteristics for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mtext>S</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>34</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mtext>Th</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>232</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> reaction.	2.9	26
49	Asymptotic and near-target direct breakup of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>7</mml:mn></mml:mmultiscripts></mml:math>	2.9	35
50	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
51	Nuclear structure effects in quasifission â€“ understanding the formation of the heaviest elements. EPJ Web of Conferences, 2016, 123, 03005.	0.3	2
52	Observation of mass-asymmetric fission of mercury nuclei in heavy ion fusion. Physical Review C, 2015, 91, .	2.9	49
53	Mapping quasifission characteristics in heavy element formation reactions. EPJ Web of Conferences, 2015, 86, 00015.	0.3	3
54			

#	Article	IF	Citations
55	How signatures of quasifission evolve in reactions forming Curium. EPJ Web of Conferences, 2015, 86, 00063.	0.3	0
56	Comparing Experimental and Theoretical Quasifission Mass Angle Distributions. EPJ Web of Conferences, 2015, 86, 00061.	0.3	2
57	Microscopic study of the effect of intrinsic degrees of freedom on fusion. EPJ Web of Conferences, 2015, 86, 00047.	0.3	1
58	Dynamical approach to heavy ion-induced fission. EPJ Web of Conferences, 2015, 91, 00005.	0.3	0
59	Recent developments of SOLEROO: Australiaâ€™s first high energy radioactive Ion Beam capability. EPJ Web of Conferences, 2015, 91, 00001.	0.3	6
60	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
61	Investigating energy dissipation through nucleon transfer reactions. EPJ Web of Conferences, 2015, 91, 00010.	0.3	0
62	Experimental study of the quasifission, fusion-fission, and de-excitation of Cf compound nuclei. Physical Review C, 2015, 91, .	2.9	40
63	Reduced quasifission competition in fusion reactions forming neutron-rich heavy elements. Physical Review C, 2015, 91, .	2.9	49
64	Many-body Quantum Reaction Dynamics near the Fusion Barrier. EPJ Web of Conferences, 2014, 66, 01003.	0.3	0
65	Interplay between Quantum Shells and Orientation in Quasifission. Physical Review Letters, 2014, 113, 182502.	7.8	119
66	<mml:math xmlns:mml="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:none /><mml:mrow><mml:mn>249</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>Fusion	7.8	220
67	Mass-angle distributions. EPJ Web of Conferences, 2014, 66, 03037.	0.3	4
68	Microscopic approach to coupled-channels effects on fusion. Physical Review C, 2013, 88, .	2.9	72
69	Evolution of signatures of quasifission in reactions forming curium. Physical Review C, 2013, 88, .	2.9	54
70	Predominance of transfer in triggering breakup in sub-barrier reactions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>6</mml:mn><mml:mo>,</mml:mo><mml:mn>7</mml:mn></mml:mrow></mml:msup></mml:math>Li with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>144</mml:mn></mml:msup></mml:math>Sm,<mml:math xmlns:mml="http://www.w3.org/1998	2.9	97
71	Mapping quasifission characteristics and timescales in heavy element formation reactions. Physical Review C, 2013, 88, .	2.9	130
72	(Multi-)nucleon transfer in the reactions¹⁶O, 3³²S +²⁰⁸Pb. Journal of Physics: Conference Series, 2013, 420, 012129.	0.4	1

#	Article	IF	Citations
73	Dynamics and Time-scales in Breakup and Fusion. Journal of Physics: Conference Series, 2013, 420, 012116.	0.4	1
74	Investigating quasi-fission dynamics through mass-angle distributions. Journal of Physics: Conference Series, 2013, 420, 012115.	0.4	8
75	Fission fragment mass distribution in the13C+182W and176Yb reactions. EPJ Web of Conferences, 2013, 63, 02017.	0.3	3
76	Study of fusion reactions forming Cf nuclei. EPJ Web of Conferences, 2013, 63, 02015.	0.3	1
77	Probing quantum many-body dynamics in nuclear systems. EPJ Web of Conferences, 2013, 63, 02001.	0.3	2
78	Breakup mechanisms for7Li +197Au,204Pb systems at sub-barrier energies. EPJ Web of Conferences, 2013, 63, 02004.	0.3	0
79	An Ion Beam Tracking System based on a Parallel Plate Avalanche Counter. EPJ Web of Conferences, 2013, 63, 02022.	0.3	8
80	Nuclear Reaction Dynamics Research at the Australian National University. EPJ Web of Conferences, 2013, 63, 02005.	0.3	1
81	Systematic behavior of mass distributions in48Ti-induced fission at near-barrier energies. Physical Review C, 2012, 85, .	2.9	48
82	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
83	Effects of nuclear structure on quasi-fission. EPJ Web of Conferences, 2012, 38, 09001.	0.3	10
84	Complete fusion enhancement and suppression of weakly bound nuclei at near barrier energies. EPJ Web of Conferences, 2012, 38, 09004.	0.3	0
85	Applications of a 6.5T Superconducting Solenoidal Separator. EPJ Web of Conferences, 2012, 35, 05006.	0.3	0
86	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
87	Quasifission and Shell Effects in Reactions Forming266Sg. EPJ Web of Conferences, 2012, 35, 05008.	0.3	1
88	Sub-barrier transfer in¹⁶O+²⁰⁸Pb and³²S+²⁰⁸Pb and its role in understanding the suppression of fusion. EPJ Web of Conferences, 2012, 35, 05005.	0.3	1
89	Reconstructing breakup at sub-barrier energies. EPJ Web of Conferences, 2012, 35, 05007.	0.3	2
90	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

#	Article	IF	Citations
91	A complete picture of the breakup in6,7Li-induced reactions. EPJ Web of Conferences, 2011, 17, 03002.	0.3	7
92	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
93	Optimising conditions for production of 6He, 8Li, 10Be and 12B 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
94	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
95	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
96	Cluster transfer in the reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>16</mml:mn></mml:msup></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:	2.9	54
97	COMPLETE CHARACTERIZATION OF BREAKUP OF 9Be BY Î±-Î± COINCIDENCE MEASUREMENTS. International Journal of Modern Physics E, 2011, 20, 835-838.	1.0	3
98	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
99	Quantum coherence and decoherence in low energy nuclear collisions: from superposition to irreversibility. Nuclear Physics A, 2010, 834, 117c-122c.	1.5	9
100	Reaction dynamics of weakly bound nuclei at near-barrier energies. Nuclear Physics A, 2010, 834, 147c-150c.	1.5	21
101	Systematic analysis of above-barrier fusion of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Be</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>9</mml:mn><mml:mo>,</mml:mo><mml:mn>10</mml:mn><mml:mo>,</mml:mo><mml:mn>11</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>	2.9	35
102	Mechanisms and systematics of breakup in reactions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Be</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>9</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>at near-barrier energies. Physical Review C, 2010, 81, .	2.9	134
103	Breakup of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Be</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>9</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Pb</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>208</mml:mn></mml:mrow></mml:	2.9	52
104	Coulomb nuclear interference as a tool to investigate the nuclear potential. Physical Review C, 2010, 81, .	2.9	7
105	Suppression of complete fusion due to breakup in the reactions<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>10</mml:mn><mml:mo>,</mml:mo><mml:mn>11</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Bi</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>209</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Revie	2.9	93
106	Coupled-Channels Approach for Dissipative Quantum Dynamics in Near-Barrier Collisions. , 2009, , .		2
107	Systematic study of the nuclear potential diffuseness through high precision back-angle quasi-elastic scattering. Physical Review C, 2008, 78, .	2.9	45
108	Two Distinct Quasifission Modes in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mn>32</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Th</mml:mi><mml:mprescripts /><mml:none /><mml:mn>232</mml:mn></mml:mmultiscripts></mml:math>Reaction. Physical Review Letters, 2008, 101, 092701.	7.8	66

#	Article	IF	Citations
109	Entrance channel dependence of quasifission in reactions forming <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Th</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>220</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2008, 77, .	2.9	85
110	Dissipative quantum dynamics in low-energy collisions of complex nuclei. Physical Review C, 2008, 78, .	2.9	52
111	Strong evidence for quasifission in asymmetric reactions forming <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Po</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>202</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2008, 77, .	2.9	108
112	Disentangling Effects of Nuclear Structure in Heavy Element Formation. Physical Review Letters, 2008, 100, 202701.	7.8	59
113	Beyond the Coherent Coupled Channels Description of Nuclear Fusion. Physical Review Letters, 2007, 99, 192701.	7.8	170
114	Isotopic dependence of fusion barrier energies in reactions forming heavy elements. Physical Review C, 2007, 75, .	2.9	34
115	Probing the tail of the nuclear potential between identical nuclei with quasi-elastic Mott scattering. Physical Review C, 2007, 76, .	2.9	19
116	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
117	Failure of the Woods-Saxon nuclear potential to simultaneously reproduce precise fusion and elastic scattering measurements. Physical Review C, 2007, 75, .	2.9	81
118	Systematic study of the nuclear potential through high precision back-angle quasi-elastic scattering measurements. Physical Review C, 2007, 76, .	2.9	39
119	Insights into the dynamics of fusion forming heavy elements. Nuclear Physics A, 2007, 787, 176-183.	1.5	6
120	New challenges in understanding heavy ion fusion. Nuclear Physics A, 2007, 787, 144-149.	1.5	36
121	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
122	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
123	Fusion near and below the Barrier: New Results and Challenges. AIP Conference Proceedings, 2006, , .	0.4	8
124	Novel Recoil Spectrometer for Characterising Nuclei Far From Stability. AIP Conference Proceedings, 2006, , .	0.4	2
125	Measurement of Fusion Excitation Functions using a Novel Superconducting Solenoid. AIP Conference Proceedings, 2006, , .	0.4	3
126	Semi-microscopic calculations of the fusion barrier distributions for reactions involving deformed target nuclei. Physical Review C, 2006, 73, .	2.9	30

#	Article	IF	Citations
127	Probing surface diffuseness of nucleus-nucleus potential with quasielastic scattering at deep sub-barrier energies. Physical Review C, 2006, 73, .	2.9	55
128	Isomer ratio measurements as a probe of the dynamics of breakup and incomplete fusion. Physical Review C, 2006, 74, .	2.9	25
129	Comprehensive study of reaction mechanisms for theBe9+Sm144system at near- and sub-barrier energies. Physical Review C, 2006, 73, .	2.9	144
130	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
131	Double folding nucleus-nucleus potential applied to heavy-ion fusion reactions. Physical Review C, 2004, 69, .	2.9	106
132	Direct and compound reactions induced by unstable helium beams near the Coulomb barrier. Physical Review C, 2004, 70, .	2.9	108
133	Elastic scattering and fusion ofBe9+Pb208: Density function dependence of the double folding renormalization. Physical Review C, 2004, 69, .	2.9	63
134	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
135	The Nuclear Potential in Heavy-Ion Fusion. Progress of Theoretical Physics Supplement, 2004, 154, 209-216.	0.1	29
136	Importance of entrance channel dynamics on heavy element formation. Nuclear Physics A, 2004, 734, 148-155.	1.5	24
137	Fusion and breakup in the reactions of 6,7Li and 9Be. Nuclear Physics A, 2004, 738, 475-478.	1.5	24
138	Systematics of precise nuclear fusion cross sections: the need for aÂnew dynamical treatment of fusion?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 219-224.	4.1	77
139	Effect of breakup on the fusion ofLi6,Li7, andBe9with heavy nuclei. Physical Review C, 2004, 70, .	2.9	333
140	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
141	Surface diffuseness of nuclear potential from heavy-ion fusion reactions. Nuclear Physics A, 2003, 722, C479-C483.	1.5	16
142	Exploratory studies towards fusion with the16+isomer ofHf178. Physical Review C, 2003, 68, .	2.9	5
143	Fusion cross sections at deep sub-barrier energies. Physical Review C, 2003, 67, .	2.9	74
144	Breakup and transfer processes in the9Be+208Pbreaction. Physical Review C, 2003, 68, .	2.9	47

#	Article	IF	Citations
145	SURFACE DIFFUSENESS ANOMALY IN HEAVY-ION FUSION POTENTIALS. , 2003, , .		2
146	INHIBITION OF FUSION BY QUASI-FISSION IN HEAVY ELEMENT FORMATION. , 2003, , .		0
147	Fusion Suppression and Sub-Barrier Breakup of Weakly Bound Nuclei. Physical Review Letters, 2002, 89, 272701.	7.8	129
148	Dominance of collective over proton transfer couplings in the fusion of32Sand34Swith89Y. Physical Review C, 2002, 66, .	2.9	46
149	Measurement of the effect of large deformation-aligned ground-state spin on fission fragment anisotropies. Physical Review C, 2002, 66, .	2.9	13
150	Fusion and breakup in the reactions of6Liand7Linuclei with209Bi. Physical Review C, 2002, 66, .	2.9	168
151	Severe Inhibition of Fusion by Quasifission in Reactions FormingT220h. Physical Review Letters, 2002, 89, 282701.	7.8	97
152	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
153	Importance of geometrical corrections to fusion barrier calculations for deformed nuclei. Physical Review C, 2002, 65, .	2.9	17
154	Role of Entrance-channel Dynamics in Heavy Element Synthesis. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 31-38.	0.7	37
155	Absence of fusion suppression due to breakup in the 12C+7Li reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 295-300.	4.1	33
156	Investigation of the role of neutron transfer in the fusion of 32,34S with 197Au, 208Pb using quasi-elastic scattering. Nuclear Physics A, 2002, 712, 14-22.	1.5	10
157	Influence of entrance channel properties on heavy-ion reaction dynamics. European Physical Journal A, 2002, 13, 149-154.	2.5	4
158	Fusion around the barrier for 7Li+12C. Pramana - Journal of Physics, 2001, 57, 195-198.	1.8	1
159	Dynamical interplay of fusion and fission in low-energy nucleusâ€“nucleus collisions. Nuclear Physics A, 2001, 685, 72-79.	1.5	7
160	Unexpected inhibition of fusion in nucleusâ€“nucleus collisions. Nature, 2001, 413, 144-147.	27.8	167
161	Experimental barrier distributions for the fusion of12C,16O,28Si,and35Clwith92Zrand coupled-channels analyses. Physical Review C, 2001, 64, .	2.9	129
162	Influence of higher-order deformations in the34S+168Erfusion reaction. Physical Review C, 2001, 64, .	2.9	21

#	Article	IF	Citations
163	FUSION OF WEAKLY BOUND STABLE NUCLEI - WHAT CAN WE LEARN?. , 2001, , .		0
164	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
165	Memory of the entrance-channelKdistribution observed in fission at high angular momentum. Physical Review C, 2000, 62, .	2.9	28
166	Competition between high-Kstates and rotational structures in177Ta. Physical Review C, 2000, 61, .	2.9	21
167	Loss of memory of target nucleus deformation axis in heavy-ion fusion-fission. Physical Review C, 2000, 62, .	2.9	17
168	Fusion versus Breakup: Observation of Large Fusion Suppression for9Be+208Pb. Physical Review Letters, 1999, 82, 1395-1398.	7.8	264
169	Limiting angular momentum for statistical model description of fission. Physical Review C, 1999, 60, .	2.9	48
170	Insights into nuclear reactions through fusion barrier distribution measurements. Nuclear Physics A, 1999, 654, 864c-869c.	1.5	3
171	Exploiting barrier distributions to investigate breakup effects in the fusion of 9Be+208Pb. Pramana - Journal of Physics, 1999, 53, 513-520.	1.8	1
172	Coupled-channels analysis of the16O+208Pbfusion barrier distribution. Physical Review C, 1999, 60, .	2.9	193
173	Fusion excitation function measurements for the 16O+58Ni and 16O+62Ni systems. Nuclear Physics A, 1998, 628, 1-16.	1.5	44
174	Barrier distributions as a tool to investigate fusion and fission. Nuclear Physics A, 1998, 630, 78-91.	1.5	9
175	MEASURING BARRIERS TO FUSION. Annual Review of Nuclear and Particle Science, 1998, 48, 401-461.	10.2	603
176	Comment on â€œAnomalous Peaklike Structure in the Fission Fragment Anisotropies at Sub-barrier Energies in11B,12C,16O,19F+232ThReactionsâ€• Physical Review Letters, 1998, 81, 4777-4777.	7.8	5
177	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
178	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
179	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
180	Adiabatic Quantum Tunneling in Heavy-Ion Sub-barrier Fusion. Physical Review Letters, 1997, 79, 2014-2017.	7.8	82

#	Article	IF	Citations
181	Precise fission fragment anisotropies for the12C+232Th reaction: Supporting the nuclear orientation dependence of quasifission. Physical Review C, 1997, 55, R995-R998.	2.9	64
182	Barrier distributions and scattering. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1175-1181.	3.6	26
183	Correlated oscillations in the excitation functions of deep-inelastic collisions: evidence for nuclear pulsars?. Zeitschrift FÃ¼r Physik A, 1997, 359, 263-270.	0.9	6
184	Barrier distributions from elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 23-29.	4.1	40
185	Intrinsic states and rotational bands in 175Ta. Nuclear Physics A, 1996, 601, 195-233.	1.5	22
186	Conclusive evidence for the influence of nuclear orientation on quasifission. Physical Review C, 1996, 53, 1290-1300.	2.9	215
187	Fusion barrier distributions and fission anisotropies. Nuclear Physics A, 1995, 583, 135-139.	1.5	1
188	Probing fusion barrier distributions with quasi-elastic scattering. Nuclear Physics A, 1995, 584, 190-204.	1.5	173
189	Competition between fusion-fission and quasi-fission in the reaction 28Si+208Pb. Nuclear Physics A, 1995, 592, 271-289.	1.5	54
190	Rotation of an Eight-Quasiparticle Isomer. Physical Review Letters, 1995, 75, 406-409.	7.8	27
191	Barrier distributions from the fusion of oxygen ions withSm144,148,154andW186. Physical Review C, 1995, 52, 3151-3166.	2.9	357
192	Fusion-Fission versus Quasifission: Effect of Nuclear Orientation. Physical Review Letters, 1995, 74, 1295-1298.	7.8	217
193	Resolution of the anomalous fission fragment anisotropies for theO16+208Pb reaction. Physical Review C, 1995, 52, 243-251.	2.9	101
194	Clear signatures of specific inelastic and transfer channels in the distribution of fusion barriers. Physical Review Letters, 1994, 72, 4074-4077.	7.8	95
195	Yrast isomers, multi-quasiparticle states and blocking in 176Ta and 177Ta. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 16-21.	4.1	30
196	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
197	Yields of evaporation residues and average angular momentum in heavy ion induced fusion reactions leading to compound nucleus96Ru. Pramana - Journal of Physics, 1992, 38, 291-312.	1.8	4
198	Fusion of 28Si + 68Zn, 32S + 64Ni, 37Cl + 59Co and 45Sc + 51V in the vicinity of the Coulomb barrier. Nuclear Physics A, 1992, 539, 351-369.	1.5	95

#	Article	IF	Citations
199	Consistency of angular momentum and cross section in near-barrier fusion ofSi28+68Zn,S32+64Ni, andCl37+59Co. Physical Review Letters, 1991, 66, 1414-1417.	7.8	24