

Rajeev K Puri

List of Publications by Year in descending order

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88
papers

3,316
citations

126907

33
h-index

144013

57
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88
all docs

88
docs citations

88
times ranked

482
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the many-body dynamics of heavy ion collisions: Present status and future perspective. European Physical Journal A, 1998, 1, 151-169.	2.5	447
2	Comparison of different proximity potentials for asymmetric colliding nuclei. Physical Review C, 2010, 81, .	2.9	177
3	Simulated Annealing Clusterization Algorithm for Studying the Multifragmentation. Journal of Computational Physics, 2000, 162, 245-266.	3.8	127
4	Early fragment formation in heavy-ion collisions. Physical Review C, 1996, 54, R28-R31.	2.9	125
5	Analytical parametrization of fusion barriers using proximity potentials. Physical Review C, 2010, 81, .	2.9	120
6	In-medium effects in the description of heavy-ion collisions with realistic NN interactions. Nuclear Physics A, 1992, 548, 102-130.	1.5	102
7	Isospin effects on the energy of vanishing flow in heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 085102.	3.6	99
8	Systematic study of the fusion barriers using different proximity-type potentials for $N < Z$ colliding nuclei: New extensions. Physical Review C, 2010, 81, .	2.9	98
9	Microscopic approach to the spectator matter fragmentation from 400 to 1000 MeV. Europhysics Letters, 2009, 85, 62001.	2.0	89
10	Study of fragmentation using clusterization algorithm with realistic binding energies. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 015105.	3.6	86
11	Fusion barriers using the energy-density formalism: Simple analytical formula and the calculation of fusion cross sections. Physical Review C, 1992, 45, 1837-1849.	2.9	84
12	Temperature-dependent mean field and its effect on heavy-ion reactions. Nuclear Physics A, 1994, 575, 733-765.	1.5	72
13	Mass dependence of the onset of multifragmentation in low energy heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 105103.	3.6	71
14	Effect of the symmetry energy on nuclear stopping and its relation to the production of light charged fragments. Physical Review C, 2010, 81, .	2.9	71
15	Sensitivity of the transverse flow to the symmetry energy. Physical Review C, 2011, 83, .	2.9	65
16	Consequences of a covariant description of heavy-ion reactions at intermediate energies. Physical Review C, 1995, 51, 2113-2124.	2.9	64
17	Elliptical flow and isospin effects in heavy-ion collisions at intermediate energies. Physical Review C, 2010, 81, .	2.9	63
18	Impact parameter dependence of the disappearance of flow and in-medium nucleon-nucleon cross section. Physical Review C, 1998, 58, 3494-3499.	2.9	57

#	ARTICLE	IF	CITATIONS
19	Nuclear dynamics at the balance energy. <i>Physical Review C</i> , 2004, 70, .	2.9	57
20	Isospin effects in the disappearance of flow as a function of colliding geometry. <i>Physical Review C</i> , 2011, 83, .	2.9	57
21	Spin density contribution in heavy-ion interaction potentials using energy density formalism. <i>Physical Review C</i> , 1991, 43, 315-324.	2.9	55
22	Subthreshold K ⁺ production in 1GeV/u ¹⁹⁷ Au + ¹⁹⁷ Au collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 298, 41-45.	4.1	55
23	Formation of fragments in heavy-ion collisions using a modified clusterization method. <i>Physical Review C</i> , 2011, 83, .	2.9	55
24	Momentum dependence of the nuclear mean field and multifragmentation in heavy-ion collisions. <i>Physical Review C</i> , 2009, 79, .	2.9	54
25	Instabilities against exotic cluster decays in $\tilde{\text{stable}}^{\text{TM}}$ nuclei with Z and N in the neighborhood of spherical and deformed closed shells. <i>Physical Review C</i> , 1993, 47, 561-566.	2.9	53
26	Isospin effects on the energy of peak mass production. <i>Physical Review C</i> , 2013, 87, .	2.9	46
27	Isotopic dependence of fusion cross-sections $\hat{\epsilon}$ linear relationships. <i>European Physical Journal A</i> , 1998, 3, 277-280.	2.5	44
28	Role of momentum correlations in fragment formation. <i>Physical Review C</i> , 1998, 58, 320-325.	2.9	41
29	Different nucleon-nucleon cross sections and multifragmentation. <i>Physical Review C</i> , 1998, 58, 1618-1626.	2.9	38
30	Role of structural effects on the collective transverse flow and the energy of vanishing flow in nuclear collisions. <i>Physical Review C</i> , 2013, 87, .	2.9	38
31	Multifragmentation within a clusterization algorithm based on thermal binding energies. <i>Physical Review C</i> , 2014, 89, .	2.9	36
32	Study of in-medium effects on the disappearance of the sideways flow in heavy-ion collisions. <i>Zeitschrift für Physik A</i> , 1996, 355, 55-60.	0.9	35
33	Participant-spectator matter at the energy of vanishing flow. <i>Physical Review C</i> , 2009, 79, .	2.9	35
34	Stability of fragments formed in the simulations of central heavy ion collisions. <i>Physical Review C</i> , 1998, 58, 2858-2863.	2.9	31
35	Binary breakup: Onset of multifragmentation and vaporization in Ca-Ca collisions. <i>Physical Review C</i> , 1998, 57, 2744-2747.	2.9	30
36	Entropy and light cluster production in heavy-ion collisions at intermediate energies. <i>Nuclear Physics A</i> , 2010, 847, 243-252.	1.5	29

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37	Study of the formation of fragments with different clusterization methods. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 2091-2108.	3.6	28
38	Importance of momentum dependent interactions in multifragmentation. Physical Review C, 1999, 60, .	2.9	25
39	On the elliptical flow and mass asymmetry of the colliding nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 512-516.	4.1	25
40	Realistic forces in heavy-ion collisions at intermediate energies. Journal of Physics G: Nuclear and Particle Physics, 1996, 22, 131-138.	3.6	24
41	Systematic study of isospin effects in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{d} \langle \text{mml:mi} \langle \text{mml:mi} \text{like} \langle \text{mml:mi} \text{is} \langle \text{mml:mi} \text{tr} \rangle \rangle \rangle \rangle \rangle \rangle$ and entropy production. Physical Review C, 2014, 89, .	2.9	22
42	Momentum dependent interactions and the asymmetry of the reaction: Multifragmentation as an example. Physical Review C, 2001, 63, .	2.9	22
43	From fusion to total disassembly: Global stopping in heavy-ion collisions. Physical Review C, 2006, 74, .	2.9	22
44	Importance of momentum dependent interactions at the energy of vanishing flow. Physical Review C, 2010, 82, .	2.9	22
45	Sensitivity of transverse flow toward isospin-dependent cross sections and symmetry energy. Physical Review C, 2012, 86, .	2.9	22
46	Dynamical multifragmentation and spatial correlations. Physical Review C, 2000, 62, .	2.9	18
47	Influence of charge asymmetry and isospin-dependent cross section on nuclear stopping. Physical Review C, 2011, 84, .	2.9	18
48	Participant-spectator matter and thermalization of neutron-rich systems at the energy of vanishing flow. Physical Review C, 2012, 85, .	2.9	18
49	On nuclear stopping in asymmetric colliding nuclei. Nuclear Physics A, 2011, 861, 37-46.	1.5	17
50	Parametrization of fusion barriers based on empirical data. Nuclear Physics A, 2015, 933, 135-142.	1.5	16
51	Cluster formation and phase transition in nuclear disassembly using a variety of clusterization algorithms. Physical Review C, 2019, 99, .	2.9	15
52	Influence of charge asymmetry and isospin-dependent cross section on elliptical flow. Physical Review C, 2012, 85, .	2.9	14
53	Multifragmentation of nearly symmetric and asymmetric reactions within a dynamical model. Nuclear Physics A, 2016, 945, 95-111.	1.5	14
54	ANALYTICAL FORMULATION OF THE ION-ION INTERACTION POTENTIAL INCLUDING SPIN DENSITY TERM IN ENERGY DENSITY FORMALISM. International Journal of Modern Physics E, 1992, 01, 269-299.	1.0	13

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55	Mass dependence in the production of light fragments in heavy-ion collisions. Physical Review C, 2002, 65, .	2.9	13
56	Multifragmentation at the energy of vanishing flow in central heavy-ion collisions. Physical Review C, 2006, 74, .	2.9	13
57	On the mass dependence of the energy of vanishing flow for superheavy mass region. European Physical Journal A, 2015, 51, 1.	2.5	13
58	Comparison of different Skyrme forces: Fusion barriers and fusion cross sections. Physical Review C, 1995, 51, 1568-1571.	2.9	10
59	Using experimental data to test an n -body dynamical model coupled with an energy-based clusterization algorithm at low incident energies. Physical Review C, 2018, 97, .	2.9	10
60	Spin-orbit density part of the nucleus-nucleus interaction potential. Physical Review C, 1999, 60, .	2.9	9
61	Analytical description of heavy ion potentials for collisions between nuclei of same shell. European Physical Journal A, 1998, 2, 69-75.	2.5	8
62	Study of fragmentation at low excitation energies within a dynamical microscopic theory. Physical Review C, 2007, 75, .	2.9	8
63	Influence of different binding energies in clusterization approach: fragmentation as an example. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 025104.	3.6	8
64	Spin density contribution to heavy ion potentials using different nucleonic densities. Physical Review C, 1997, 56, 1175-1178.	2.9	7
65	On the multifragmentation around the energy of vanishing flow using isospin-dependent model. Nuclear Physics A, 2012, 875, 173-180.	1.5	7
66	Fragment production in $^{16}\text{O}+^{80}\text{Br}$ reaction within dynamical microscopic theory. Pramana - Journal of Physics, 2002, 59, 19-31.	1.8	6
67	THE STUDY OF PARTICIPANT-SPECTATOR MATTER AND COLLISION DYNAMICS IN HEAVY-ION COLLISIONS. International Journal of Modern Physics E, 2006, 15, 899-910.	1.0	6
68	ON THE BALANCE ENERGY AND NUCLEAR DYNAMICS IN PERIPHERAL HEAVY-ION COLLISIONS. International Journal of Modern Physics E, 2010, 19, 2009-2021.	1.0	6
69	Fragment emission and critical behavior in light and heavy charged systems. Chinese Physics C, 2021, 45, 014101.	3.7	6
70	Analytical calculation of fusion barriers and cross-sections for spin-saturated colliding nuclei. Zeitschrift für Physik A, 1997, 359, 141-144.	0.9	5
71	Relativistic effects in heavy-ion collisions at SIS energies. Zeitschrift für Physik A, 1995, 351, 59-69.	0.9	4
72	Role of mass asymmetry on the peak energy of intermediate mass fragments production and its influence towards isospin effects. Nuclear Physics A, 2021, 1008, 122144.	1.5	4

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73	Calculated fusion cross-sections for neutron rich colliding nuclei. Il Nuovo Cimento A, 1997, 110, 1149-1156.	0.2	3
74	Does the range of IMF affect rise and fall trend in fragmentation?. AIP Conference Proceedings, 2018, , .	0.4	2
75	Isospin effects in nuclear fragmentation of isotopic, isobaric, and isotonic reactions. Physical Review C, 2018, 98, .	2.9	2
76	The simulations of Ca-Ca collisions: Binary break-up, onset of multifragmentation and vaporization. Pramana - Journal of Physics, 1999, 53, 453-456.	1.8	1
77	Multi-Fragmentation in Heavy-Ion Collisions: Role of System-Size Effects, Cross-Section and Equation of State. Acta Physica Hungarica A Heavy Ion Physics, 2002, 16, 233-242.	0.4	1
78	Study of Equilibrium Using Collision Dynamics. Acta Physica Hungarica A Heavy Ion Physics, 2002, 16, 429-436.	0.4	1
79	Exploring isospin effects in nuclear fragmentation at 600 MeV/nucleon. European Physical Journal A, 2022, 58, 1.	2.5	1
80	Mass independence and asymmetry of the reaction: Multi-fragmentation as an example. Journal of Physics: Conference Series, 2011, 312, 082028.	0.4	0
81	MULTIFRAGMENTATION IN THE PERSPECTIVES OF VARIOUS CLUSTERIZATION ALGORITHMS. , 2017, , 495-505.		0
82	Isospin Effects on the Cross-over Energy Via Nuclear Fragmentation. , 2020, , .		0
83	Interplay of Coulomb and symmetry potential in peak fragment production in asymmetric collisions. International Journal of Modern Physics E, 2021, 30, 2150022.	1.0	0
84	Effect of Halo Structure in Nuclear Reactions Using Monte-Carlo Simulations. Trends in Mathematics, 2021, , 303-310.	0.1	0
85	Isospin Effects: Nuclear Fragmentation as a Probe. Springer Proceedings in Physics, 2021, , 51-64.	0.2	0
86	On the Fragment Production and Phase Transition Using QMD + SACA Model. Springer Proceedings in Physics, 2021, , 65-79.	0.2	0
87	Role of Mass Asymmetry on the Energy of Peak Intermediate Mass Production and Its Related Dynamics. Springer Proceedings in Physics, 2021, , 81-91.	0.2	0
88	Study of Isospin Effects in Heavy-Ion Collisions at Intermediate Energies Using Isospin-Dependent Quantum Molecular Dynamics Model. Springer Proceedings in Physics, 2021, , 41-50.	0.2	0