Rajeev K Puri

List of Publications by Year
in descending order

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88	3,316	126907	144013
papers	citations	33 h-index	57 g-index

88	88	88	482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring isospin effects in nuclear fragmentation at 600 MeV/nucleon. European Physical Journal A, 2022, 58, 1.	2.5	1
2	Fragment emission and critical behavior in light and heavy charged systems. Chinese Physics C, 2021, 45, 014101.	3.7	6
3	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
4	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
5	Effect of Halo Structure in Nuclear Reactions Using Monte-Carlo Simulations. Trends in Mathematics, 2021, , 303-310.	0.1	0
6	Isospin Effects: Nuclear Fragmentation as a Probe. Springer Proceedings in Physics, 2021, , 51-64.	0.2	0
7	On the Fragment Production and Phase Transition Using QMD + SACA Model. Springer Proceedings in Physics, 2021, , 65-79.	0.2	0
8	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
9	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
10	Isospin Effects on the Cross-over Energy Via Nuclear Fragmentation. , 2020, , .		0
11	Cluster formation and phase transition in nuclear disassembly using a variety of clusterization algorithms. Physical Review C, 2019, 99, .	2.9	15
12	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
13	Does the range of IMF affect rise and fall trend in fragmentation?. AIP Conference Proceedings, 2018, , .	0.4	2
14	Isospin effects in nuclear fragmentation of isotopic, isobaric, and isotonic reactions. Physical Review C, 2018, 98, .	2.9	2
15	MULTIFRAGMENTATION IN THE PERSPECTIVES OF VARIOUS CLUSTERIZATION ALGORITHMS. , 2017, , 495-505.		0
16	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
17	Multifragmentation of nearly symmetric and asymmetric reactions within a dynamical model. Nuclear Physics A, 2016, 945, 95-111.	1.5	14
18	On the mass dependence of the energy of vanishing flow for superheavy mass region. European Physical Journal A, 2015, 51, 1.	2.5	13

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19	Parametrization of fusion barriers based on empirical data. Nuclear Physics A, 2015, 933, 135-142.	1.5	16
20	Systematic study of isospin effects in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>d</mml:mi><mml:mi>li</mml:mi></mml:msub></mml:n and entropy production. Physical Review C, 2014, 89, .	2.9	23
21	Multifragmentation within a clusterization algorithm based on thermal binding energies. Physical Review C, 2014, 89, .	2.9	36
22	Role of structural effects on the collective transverse flow and the energy of vanishing flow in nuclear collisions. Physical Review C, 2013, 87, .	2.9	38
23	Isospin effects on the energy of peak mass production. Physical Review C, 2013, 87, .	2.9	46
24	Influence of charge asymmetry and isospin-dependent cross section on elliptical flow. Physical Review C, 2012, 85, .	2.9	14
25	Participant-spectator matter and thermalization of neutron-rich systems at the energy of vanishing flow. Physical Review C, 2012, 85, .	2.9	18
26	Sensitivity of transverse flow toward isospin-dependent cross sections and symmetry energy. Physical Review C, 2012, 86, .	2.9	22
27	On the multifragmentation around the energy of vanishing flow using isospin-dependent model. Nuclear Physics A, 2012, 875, 173-180.	1.5	7
28	Mass independence and asymmetry of the reaction: Multi-fragmentation as an example. Journal of Physics: Conference Series, 2011, 312, 082028.	0.4	0
29	On nuclear stopping in asymmetric colliding nuclei. Nuclear Physics A, 2011, 861, 37-46.	1.5	17
30	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
31	Influence of charge asymmetry and isospin-dependent cross section on nuclear stopping. Physical Review C, 2011, 84, .	2.9	18
32	Isospin effects in the disappearance of flow as a function of colliding geometry. Physical Review C, 2011, 83, .	2.9	57
33	Formation of fragments in heavy-ion collisions using a modified clusterization method. Physical Review C, 2011, 83, .	2.9	55
34	Sensitivity of the transverse flow to the symmetry energy. Physical Review C, 2011, 83, .	2.9	65
35	Entropy and light cluster production in heavy-ion collisions at intermediate energies. Nuclear Physics A, 2010, 847, 243-252.	1.5	29
36	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

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37	Study of fragmentation using clusterization algorithm with realistic binding energies. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 015105.	3.6	86
38	Elliptical flow and isospin effects in heavy-ion collisions at intermediate energies. Physical Review C, 2010, 81, .	2.9	63
39	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
40	Importance of momentum dependent interactions at the energy of vanishing flow. Physical Review C, 2010, 82, .	2.9	22
41	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
42	Comparison of different proximity potentials for asymmetric colliding nuclei. Physical Review C, 2010, 81, .	2.9	177
43	Analytical parametrization of fusion barriers using proximity potentials. Physical Review C, 2010, 81, .	2.9	120
44	Systematic study of the fusion barriers using different proximity-type potentials for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mi>Z</mml:mi></mml:mrow></mml:math>colliding nuclei: New extensions. Physical Review C, 2010, 81, .	2.9	98
45	Participant-spectator matter at the energy of vanishing flow. Physical Review C, 2009, 79, .	2.9	35
46	Momentum dependence of the nuclear mean field and multifragmentation in heavy-ion collisions. Physical Review C, 2009, 79, .	2.9	54
47	Microscopic approach to the spectator matter fragmentation from 400 to 1000â€‰AMeV. Europhysics Letters, 2009, 85, 62001.	2.0	89
48	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
49	Study of fragmentation at low excitation energies within a dynamical microscopic theory. Physical Review C, 2007, 75, .	2.9	8
50	Multifragmentation at the energy of vanishing flow in central heavy-ion collisions. Physical Review C, 2006, 74, .	2.9	13
51	From fusion to total disassembly: Global stopping in heavy-ion collisions. Physical Review C, 2006, 74, .	2.9	22
52	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
53	Nuclear dynamics at the balance energy. Physical Review C, 2004, 70, .	2.9	57
54	Mass dependence in the production of light fragments in heavy-ion collisions. Physical Review C, 2002, 65, .	2.9	13

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55	Fragment production in 16O+80Br reaction within dynamical microscopic theory. Pramana - Journal of Physics, 2002, 59, 19-31.	1.8	6
56	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
57	Study of Equilibrium Using Collision Dynamics. Acta Physica Hungarica A Heavy Ion Physics, 2002, 16, 429-436.	0.4	1
58	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
59	Momentum dependent interactions and the asymmetry of the reaction: Multifragmentation as an example. Physical Review C, 2001, 63, .	2.9	22
60	Simulated Annealing Clusterization Algorithm for Studying the Multifragmentation. Journal of Computational Physics, 2000, 162, 245-266.	3.8	127
61	Dynamical multifragmentation and spatial correlations. Physical Review C, 2000, 62, .	2.9	18
62	Spin-orbit density part of the nucleus-nucleus interaction potential. Physical Review C, 1999, 60, .	2.9	9
63	Importance of momentum dependent interactions in multifragmentation. Physical Review C, 1999, 60, .	2.9	25
64	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
65	Analytical description of heavy ion potentials for collisions between nuclei of same shell. European Physical Journal A, 1998, 2, 69-75.	2.5	8
66	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
67	Isotopic dependence of fusion cross-sections â€“ linear relationships. European Physical Journal A, 1998, 3, 277-280.	2.5	44
68	Different nucleon-nucleon cross sections and multifragmentation. Physical Review C, 1998, 58, 1618-1626.	2.9	38
69	Binary breakup: Onset of multifragmentation and vaporization in Ca-Ca collisions. Physical Review C, 1998, 57, 2744-2747.	2.9	30
70	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
71	Stability of fragments formed in the simulations of central heavy ion collisions. Physical Review C, 1998, 58, 2858-2863.	2.9	31
72	Role of momentum correlations in fragment formation. Physical Review C, 1998, 58, 320-325.	2.9	41

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73	Spin density contribution to heavy ion potentials using different nucleonic densities. Physical Review C, 1997, 56, 1175-1178.	2.9	7
74	Calculated fusion cross-sections for neutron rich colliding nuclei. Il Nuovo Cimento A, 1997, 110, 1149-1156.	0.2	3
75	Analytical calculation of fusion barriers and cross-sections for spin-saturated colliding nuclei. Zeitschrift FÃ¼r Physik A, 1997, 359, 141-144.	0.9	5
76	Study of in-medium effects on the disappearance of the sidewards flow in heavy-ion collisions. Zeitschrift FÃ¼r Physik A, 1996, 355, 55-60.	0.9	35
77	Early fragment formation in heavy-ion collisions. Physical Review C, 1996, 54, R28-R31.	2.9	125
78	Realistic forces in heavy-ion collisions at intermediate energies. Journal of Physics G: Nuclear and Particle Physics, 1996, 22, 131-138.	3.6	24
79	Relativistic effects in heavy-ion collisions at SIS energies. Zeitschrift FÃ¼r Physik A, 1995, 351, 59-69.	0.9	4
80	Comparison of different Skyrme forces: Fusion barriers and fusion cross sections. Physical Review C, 1995, 51, 1568-1571.	2.9	10
81	Consequences of a covariant description of heavy-ion reactions at intermediate energies. Physical Review C, 1995, 51, 2113-2124.	2.9	64
82	Temperature-dependent mean field and its effect on heavy-ion reactions. Nuclear Physics A, 1994, 575, 733-765.	1.5	72
83	Subthreshold K+ production in 1GeV/u 197Au + 197Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 41-45.	4.1	55
84	Instabilities against exotic cluster decays in â€˜â€˜stableâ€™â€™ nuclei withZandNin the neighborhood of spherical and deformed closed shells. Physical Review C, 1993, 47, 561-566.	2.9	53
85	ANALYTICAL FORMULATION OF THE IONâ€“ION INTERACTION POTENTIAL INCLUDING SPIN DENSITY TERM IN ENERGY DENSITY FORMALISM. International Journal of Modern Physics E, 1992, 01, 269-299.	1.0	13
86	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
87	In-medium effects in the description of heavy-ion collisions with realistic NN interactions. Nuclear Physics A, 1992, 548, 102-130.	1.5	102
88	Spin density contribution in heavy-ion interaction potentials using energy density formalism. Physical Review C, 1991, 43, 315-324.	2.9	55