

M Balasubramaniam

List of Publications by Year in descending order

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64
papers

1,480
citations

331670

21
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315739

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65
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65
docs citations

65
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	T-dependent RMF Model Applied to Ternary Fission Studies. Journal of Nuclear Physics Material Sciences Radiation and Applications, 2021, 9, 95-101.	0.2	0
2	Appearance / Disappearance of Magic Number in Light Nuclei. Journal of Nuclear Physics Material Sciences Radiation and Applications, 2021, 9, 109-115.	0.2	1
3	Pre-existence probability for the ternary fission of Cf isotopes. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 025102.	3.6	2
4	Effect of channel temperature and mass window in the fission decay of ^{181}Re . Physical Review C, 2020, 101, .	2.9	1
5	Scission point model applied to ^{181}Re formed in $^{12}\text{C}+^{169}\text{Tm}$ reaction. European Physical Journal A, 2020, 56, 1.	2.5	0
6	Mirror nuclei of ^{181}Re halo systems as ^{181}Re emitters. Physical Review C, 2019, 100, .	2.9	0
7	Role of channel temperature and mass window in the binary breakup of ^{236}U . Physical Review C, 2019, 100, .	2.9	1
8	A generalized empirical formula for half-lives of alpha-decay fine structure. International Journal of Modern Physics E, 2019, 28, 1950067.	1.0	0
9	Scission point model for the mass distribution of ternary fission. European Physical Journal A, 2019, 55, 1.	2.5	15
10	An empirical formula for the half-lives of exotic two-proton emission. European Physical Journal A, 2019, 55, 1.	2.5	32
11	In memory: Prof. Raj K. Gupta (1938–2019). International Journal of Modern Physics E, 2019, 28, 1977001.	1.0	0
12	Equatorial, collinear trajectories in the ternary fission of ^{252}Cf for various third fragments. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 025103.	3.6	4
13	Fission Timescale of Superheavy Element $Z = 120$ from the Langevin Dynamical Model. , 2019, , .		0
14	Preformation probability of two-proton emitters. International Journal of Modern Physics E, 2018, 27, 1850032.	1.0	2
15	Nuclear surface energy coefficients in cluster decay. European Physical Journal A, 2018, 54, 1.	2.5	4
16	An empirical formula for the half-lives of ground state and isomeric state one proton emission. European Physical Journal A, 2018, 54, 1.	2.5	12
17	Dynamical model calculation to reconcile the nuclear fission lifetime from different measurement techniques. Physical Review C, 2018, 98, .	2.9	7
18	Relative mass distributions of neutron-rich thermally fissile nuclei within a statistical model. Physical Review C, 2017, 96, .	2.9	5

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19	Charge distribution in the ternary fragmentation of 252Cf. European Physical Journal A, 2017, 53, 1.	2.5	9
20	Relative fragmentation in ternary systems within the temperature-dependent relativistic mean-field approach. Physical Review C, 2017, 95, .	2.9	6
21	Ternary fission of superheavy elements. Physical Review C, 2016, 93, .	2.9	15
22	True ternary fission. Physical Review C, 2015, 91, .	2.9	22
23	Ternary fission. Pramana - Journal of Physics, 2015, 85, 423-430.	1.8	4
24	Dynamics of collinear ternary fission in the fragmentation of 252Cf. EPJ Web of Conferences, 2014, 66, 03092.	0.3	1
25	Ternary-fission mass distribution of ^{252}Cf : A level-density approach. Physical Review C, 2014, 89, .	2.9	17
26	A study of measured neutron elastic differential neutron cross sections for ^{23}Na . Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 1043-1047.	1.5	1
27	An empirical relation for cluster decay preformation probability. International Journal of Modern Physics E, 2014, 23, 1450018.	1.0	13
28	Role of neck-length parameter in dynamical cluster-decay model for the decay of $^{56}\text{m Ni}$. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 095101.	3.6	2
29	Exotic decay modes of odd-Z ($105 \leq Z < 119$) superheavy nuclei. European Physical Journal A, 2014, 50, 1.	2.5	9
30	Collinear versus triangular geometry: A ternary fission study. Physical Review C, 2014, 90, .	2.9	27
31	De-excitation studies of $^{59}\text{Cu}^{\wedge}$ — formed in different entrance channel reactions. , 2013, , .		0
32	Forward versus inverse planning in oropharyngeal cancer: A comparative study using physical and biological indices. Journal of Cancer Research and Therapeutics, 2013, 9, 422.	0.9	0
33	Nuclear surface energy coefficients in $\hat{1}\pm$ -decay. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 035104.	3.6	10
34	Decay studies of $^{59}\text{Cu}^*$ formed in the $^{35}\text{Cl} + ^{24}\text{Mg}$ reaction using the dynamical cluster-decay model. Physical Review C, 2013, 87, .	2.9	7
35	ALPHA ACCOMPANIED TERNARY FISSION OF SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2013, 22, 1350014.	1.0	6
36	Temperature-dependent binding energies in a dynamical cluster-decay model applied to the decay of hot and rotating ^{56}Ni . Physical Review C, 2012, 86, .	2.9	13

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37	Kinetic energies of cluster fragments in ternary fission of ^{252}Cf . European Physical Journal A, 2012, 48, 1.	2.5	35
38	All possible ternary fragmentations of ^{252}Cf in collinear configuration. Physical Review C, 2011, 83, .	2.9	49
39	Cluster pre-existence probability. European Physical Journal A, 2011, 47, 1.	2.5	7
40	Photoluminescence properties of $\text{ZnSe}_{1-x}\text{Te}_x$ thin films on GaAs/ITO substrates by electron beam evaporation technique. Science China Technological Sciences, 2011, 54, 52-57.	4.0	5
41	Ternary fission fragmentation of ^{252}Cf for all possible third fragments. European Physical Journal A, 2010, 45, 293-300.	2.5	39
42	Deformation and orientation effects in the ternary fragmentation potential of the ^{4}He - and ^{10}Be -accompanied fission of the ^{252}Cf nucleus. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 045104.	3.6	29
43	CLUSTER RADIOACTIVITY IN TRANS-TIN REGION USING SEMIEMPIRICAL FORMULA. International Journal of Modern Physics E, 2009, 18, 1509-1520.	1.0	6
44	Three-cluster model for the ^{252}Cf -accompanied fission of californium nuclei. Physical Review C, 2009, 79, .	2.9	41
45	The dynamical cluster-decay model of preformed clusters for a hot and rotating $^{116}\text{Ba}^*$ nucleus produced in the low-energy $^{58}\text{Ni} + ^{58}\text{Ni}$ reaction. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 345-361.	3.6	42
46	Magic numbers in exotic light nuclei near drip lines. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 565-571.	3.6	34
47	Proton and \pm -radioactivity of spherical proton emitters. Physical Review C, 2005, 71, .	2.9	72
48	Dynamical cluster-decay model for hot and rotating light-mass nuclear systems applied to the low-energy $^{32}\text{S} + ^{24}\text{Mg} \rightarrow ^{56}\text{Ni}$ reaction. Physical Review C, 2005, 71, .	2.9	77
49	Optimum orientations of deformed nuclei for cold synthesis of superheavy elements and the role of higher multipole deformations. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 631-644.	3.6	237
50	New semiempirical formula for exotic cluster decay. Physical Review C, 2004, 70, .	2.9	60
51	Collective clusterization effects in light heavy ion reactions. Nuclear Physics A, 2004, 738, 479-482.	1.5	38
52	Closed-shell effects from the stability and instability of nuclei against cluster decays in the mass regions $130 \leq A \leq 158$ and $180 \leq A \leq 198$. Physical Review C, 2003, 68, .	2.9	15
53	Cluster decay of hot $^{56}\text{Ni}^*$ formed in the $^{32}\text{S} + ^{24}\text{Mg}$ reaction. Physical Review C, 2003, 68, .	2.9	91
54	Publisher's Note: Cluster decay of hot $^{56}\text{Ni}^*$ formed in the $^{32}\text{S} + ^{24}\text{Mg}$ reaction [Phys. Rev. C 68, 014610 (2003)]. Physical Review C, 2003, 68, .	2.9	1

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55	The formation and decay of superheavy nuclei produced in ^{48}Ca -induced reactions. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 625-639.	3.6	51
56	Emission of intermediate mass fragments from hot $^{116}\text{Ba}^*$ formed in low-energy $^{58}\text{Ni} + ^{58}\text{Ni}$ reaction. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 2703-2719.	3.6	84
57	Decay of excited $^{116}\text{Ba}^*$ formed in the $^{58}\text{Ni} + ^{58}\text{Ni}$ reaction via the emission of intermediate mass fragments. Physical Review C, 2002, 65, .	2.9	65
58	The cluster- α -core model for the halo structure of light nuclei at the drip lines. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 699-712.	3.6	44
59	Structure effects in the region of superheavy elements via the α -decay chain of $^{293}118$. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2875-2884.	3.6	19
60	Cold ^{86}Kr valley in superheavy $Z = 104-120$ nuclei. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 867-881.	3.6	14
61	The halo structure of neutron-drip line nuclei: (neutron) cluster-core model. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, L23-L32.	3.6	30
62	Cold fission versus exotic cluster decay in $^{234}, ^{236}, ^{238}\text{U}$ nuclei. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1373-1388.	3.6	9
63	Heavy-ion emission in spontaneous decays of $^{249}, ^{252}\text{Cf}$ nuclei. Physical Review C, 1999, 60, .	2.9	38
64	Signature of magic numbers in light exotic nuclei. International Journal of Modern Physics E, 0, , .	1.0	0