

Vahid Dehghani

List of Publications by Year in descending order

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33
papers

200
citations

1162367

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1199166

12
g-index

33
all docs

33
docs citations

33
times ranked

75
citing authors

#	ARTICLE	IF	CITATIONS
1	Alpha and cluster decay of some deformed heavy and superheavy nuclei. Nuclear Physics A, 2019, 983, 77-89.	0.6	22
2	Influence of deformed surface diffuseness on alpha decay half-lives of actinides and lanthanides. Nuclear Physics A, 2017, 963, 68-77.	0.6	18
3	Statistical pairing fluctuation and phase transition in ^{94}Mo . Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 045108.	1.4	16
4	Pairing phase transition and thermodynamical quantities in $^{148,149}\text{Sm}$. Nuclear Physics A, 2014, 930, 57-62.	0.6	15
5	Applying modified Ginzburg-Landau theory to nuclei. Physical Review C, 2014, 90, .	1.1	14
6	Temperature dependence of the alpha decay half-lives of even-even Th isotopes. Nuclear Physics A, 2020, 1002, 121947.	0.6	14
7	Role of constant value of surface diffuseness in alpha decay half-lives of superheavy nuclei. Modern Physics Letters A, 2018, 33, 1850080.	0.5	12
8	Investigation of heavy-ion fusion with deformed surface diffuseness: Actinide and lanthanide targets. Physical Review C, 2017, 95, .	1.1	9
9	Prediction of Alpha Decay Half-Lives of $Z = 118$ Superheavy Nuclei with $A \approx 300$ by Using the Double-Folding Potential. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 551-560.	0.7	8
10	Cluster Decay Half-life with Double-folding Potential: Uncertainty Analysis. Acta Physica Polonica B, 2019, 50, 1349.	0.3	8
11	Calculation of proton radioactivity half-lives. Nuclear Physics A, 2018, 977, 49-59.	0.6	7
12	Proton radioactivity half-lives with nuclear asymmetry factor. Chinese Physics C, 2021, 45, 044108.	1.5	7
13	The entropy excess and moment of inertia excess ratio with inclusion of statistical pairing fluctuations. International Journal of Modern Physics E, 2014, 23, 1450015.	0.4	6
14	Empirical formulas for proton decay half-lives: Role of nuclear deformation and Q -value. Chinese Physics C, 2018, 42, 104101.	1.5	6
15	Nuclear level density of even-even nuclei with temperature-dependent pairing energy. European Physical Journal A, 2016, 52, 1.	1.0	5
16	Heavy ion fusion reaction cross section: Analysis of the temperature dependence of the repulsive nuclear potential. Physical Review C, 2020, 102, .	1.1	5
17	The effect of shell closure on the thermodynamic properties of ^{207}Pb and ^{89}Y . International Journal of Modern Physics E, 2016, 25, 1650098.	0.4	3
18	Calculating the thermal properties of $^{93,94,95}\text{Mo}$ using the BCS model with an average value gap parameter. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Alpha decay half lives of spherical even-even nuclei: Role of repulsive core. Nuclear Physics A, 2021, 1006, 122111.	0.6	3
20	The Effect of Curing Light Intensity on Free Volume Size in Some Dental Composites. Polimery W Medycynie, 2017, 46, 129-133.	0.6	3
21	Cluster decay half-lives using asymmetry dependent densities. Chinese Physics C, 2022, 46, 044104.	1.5	3
22	Mass-split dependence of pre-scission neutron multiplicity by four-dimensional Langevin dynamics in $^{16,18}\text{O}$, ^{40}Ar and ^{64}Ni -induced fusion-fission reactions. International Journal of Modern Physics E, 2019, 28, 1950077.	0.4	2
23	Variations of stable oxygen and hydrogen isotope ratios in the cold and thermal springs of the Bazman volcanic area (in the southeast of Iran). Environmental Earth Sciences, 2019, 78, 1.	1.3	2
24	Systematic of alpha decay half-lives: role of quantization condition. Canadian Journal of Physics, 2021, 99, 24-32.	0.4	2
25	Alpha decay half-lives of even-even nuclei using alpha-folding interaction. European Physical Journal A, 2022, 58, 1.	1.0	2
26	Back shifted Fermi gas model with temperature dependent pairing energy: Thermal properties of ^{98}Mo . International Journal of Modern Physics E, 2016, 25, 1650065.	0.4	1
27	Alpha-induced reaction cross-section for Sm, U, Np targets: influence of hexadecapole deformation and deformed surface diffuseness. Chinese Physics C, 2017, 41, 064104.	1.5	1
28	Thermal properties of $^{96,97}\text{Mo}$ using Lipkin-Nogami model with an average value gap parameter. International Journal of Modern Physics E, 2018, 27, 1850045.	0.4	1
29	Role of magic numbers in thermodynamic quantities of ^{206}Pb and ^{138}Ba using BCS and Lipkin-Nogami models. European Physical Journal A, 2019, 55, 1.	1.0	1
30	Thermal properties of nuclei using RMF theory with average value gap parameter. Nuclear Physics A, 2022, 1017, 122353.	0.6	1
31	Effect of quasi-particle number fluctuations on thermodynamic properties of $^{183,184,185}\text{W}$. International Journal of Modern Physics E, 2016, 25, 1650080.	0.4	0
32	Influence of nuclear deformation on level density parameter. Modern Physics Letters A, 2016, 31, 1650211.	0.5	0
33	\hat{I}^2 + /EC transitions of ^{40}Sc using Tamm-Dancoff approximation. Chinese Journal of Physics, 2020, 66, 406-414.	2.0	0