

Avinash Agarwal

List of Publications by Year in descending order

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31
papers

478
citations

687363

13
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713466

21
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all docs

31
docs citations

31
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the entrance channel in the experimental study of incomplete fusion of ^{13}C with ^{93}Nb . Physical Review C, 2022, 105, .	2.9	5
2	Structural confirmation of biorelevant molecule N-iso-butyl, S-2-nitro-1-phenylethyl dithiocarbamate in gas phase and effect of fluorination. Chemical Physics Letters, 2021, 762, 138124.	2.6	11
3	Effect of neutron excess in the entrance channel on the $^{18}\text{O} + ^{93}\text{Nb}$ system: An experimental study relevant to incomplete-fusion dynamics. Physical Review C, 2021, 103, .	2.9	14
4	Conformational and vibrational spectroscopic investigation of N-n-butyl, S-2-nitro-1-(p-tolyl)ethyl dithiocarbamate – a bio-relevant sulfur molecule. Journal of Molecular Structure, 2021, 1238, 130450.	3.6	8
5	Synthesis, structural and vibrational spectroscopic investigation of molecules: N-n-butyl, S-2-nitro-1-phenylethyl dithiocarbamate and N-n-butyl, S-2-nitro-1-(4-fluorophenyl)ethyl dithiocarbamate.	2.2	9
6	Influence of Projectile structure and target deformation on incomplete fusion in the $^{16}\text{O} + ^{51}\text{V}$ system. Physical Review C, 2019, 100, .	2.9	6
7	Systematic of fusion incompleteness in reactions induced by $^{16}\text{O} + ^{169}\text{Yb}$ cluster projectiles. Physical Review C, 2019, 100, .	2.9	5
8	Role of partial linear momentum transfer on incomplete fusion reaction. European Physical Journal A, 2018, 54, 1.	2.5	11
9	Low-energy nuclear reaction of the $^{16}\text{O} + ^{169}\text{Yb}$ system.	2.9	15
10	Complete and incomplete fusion reactions in the interaction of $^{16}\text{O} + ^{55}\text{Mn}$ system below 7 MeV/A: Measurement and analysis of Excitation Functions. EPJ Web of Conferences, 2015, 86, 00009.	2.9	6
11	Incomplete fusion. Physical Review C, 2017, 96, .	0.3	5
12	Complete and incomplete fusion reactions in the interaction of $^{16}\text{O} + ^{55}\text{Mn}$ system below 7 MeV/A: Measurement and analysis of Excitation Functions. EPJ Web of Conferences, 2015, 86, 00009.	0.3	5
13	Influence of Ag doping concentration on structural and optical properties of CdS thin film. AIP Conference Proceedings, 2015, , .	0.4	6
14	Mass and Isotopic Yield Distribution of Fission Like Events in $^{16}\text{O} + ^{175}\text{Lu}$ System at $6\text{--}10\text{ MeV/A}$. , 2015, , .		0
15	Study of Complete and Incomplete Fusion Reaction Dynamics in $^{16}\text{O} + ^{55}\text{Mn}$ Interactions near the Coulomb Barrier Energies. , 2015, , .		0
16	Mass-Asymmetry effects in heavy ion reactions: Complete fusion Vs incomplete fusion. EPJ Web of Conferences, 2014, 66, 03024.	0.3	3
17	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. Journal of Luminescence, 2014, 147, 184-189.	3.1	30
18	Role of ion beam induced fusion in the $^{16}\text{O} + ^{115}\text{In}$ interaction at low energies.	2.9	6
19	Correlation between surface phonon mode and luminescence in nanocrystalline CdS thin films: An effect of ion beam irradiation. Journal of Applied Physics, 2014, 116, .	2.5	23

#	ARTICLE	IF	CITATIONS
19	Low-energy incomplete fusion and its sensitivity to projectile structure. Physical Review C, 2013, 87, . Influence of projectile breakup on the $^{16}\text{O} + ^{115}\text{In}$ reaction at energies $4 \leq E \leq 7$ MeV/nucleon	2.9	35
20	Nanotwinning in CdS quantum dots. Physica B: Condensed Matter, 2012, 407, 3347-3351.	2.9	24
21	Nanotwinning and structural phase transition in CdS quantum dots. Nanoscale Research Letters, 2012, 7, 584.	2.7	44
22	Energy dependence of pre-equilibrium emission for the (p,xn) reactions in niobium. Indian Journal of Physics, 2012, 86, 913-918.	5.7	87
23	Lattice distortion in ion beam synthesized silicon nanocrystals in SiO_x thin films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 283-288.	1.8	10
24	Ion beam induced formation of nanocrystalline silicon in pulsed laser deposited SiO_x thin films. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3233-3236.	1.8	21
25	Investigation of the influence of incomplete fusion on complete fusion of ^{12}C -induced reactions at $4 \leq E \leq 7.2$ MeV/nucleon. European Physical Journal A, 2011, 47, 1.	1.4	5
26	Effect of thermal annealing on the formation of silicon nanoclusters in SiO_x films grown by PLD. Physica B: Condensed Matter, 2011, 406, 2148-2151.	2.5	12
27	Role of break-up processes in the fusion of the $^{12}\text{C} + ^{52}\text{Cr}$ system. Physical Review C, 2011, 84, .	2.7	6
28	REACTION MECHANISMS IN $^{12}\text{C} + ^{93}\text{Nb}$ SYSTEM: EXCITATION FUNCTIONS AND RECOIL RANGE DISTRIBUTIONS BELOW 7 MeV/u. International Journal of Modern Physics E, 2011, 20, 645-655.	2.9	24
29	Controlled formation of silicon nanocrystals by dense electronic excitation in PLD grown SiO_x films. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2190-2196.	1.0	14
30	MEASUREMENT AND ANALYSIS OF EXCITATION FUNCTIONS AND FORWARD RECOIL RANGE DISTRIBUTIONS IN $^{12}\text{C} + ^{59}\text{Co}$ SYSTEM. International Journal of Modern Physics E, 2008, 17, 393-406.	2.7	14
31		1.0	19