

Avinash Agarwal

List of Publications by Year in descending order

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31
papers

478
citations

687363

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713466

21
g-index

31
all docs

31
docs citations

31
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotwinning and structural phase transition in CdS quantum dots. Nanoscale Research Letters, 2012, 7, 584.	5.7	87
2	Nanotwinning in CdS quantum dots. Physica B: Condensed Matter, 2012, 407, 3347-3351.	2.7	44
3	Low-energy incomplete fusion and its sensitivity to projectile structure. Physical Review C, 2013, 87, .	2.9	35
4	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. Journal of Luminescence, 2014, 147, 184-189.	3.1	30
5	Role of break-up processes in the fusion of the $^{12}\text{C}+^{52}\text{Cr}$ system. Physical Review C, 2011, 84, .	2.9	24
6	Influence of projectile breakup on the $^{16}\text{O}+^{115}\text{In}$ reaction at energies ≤ 7 MeV/nucleon. Physical Review C, 2011, 84, .	2.9	24
7	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
8	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	21
9	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.	1.0	19
10	Incomplete fusion in $^{16}\text{O}+^{89}\text{Y}$ reactions at energies of ≤ 8 MeV/nucleon. Physical Review C, 2011, 84, .	2.9	15
11	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.	2.7	14
12	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.	1.0	14
13	Influence 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
14	Investigation of the influence of incomplete fusion on complete fusion of ^{12}C -induced reactions at ≤ 7.2 MeV/nucleon. European Physical Journal A, 2011, 47, 1.	2.5	12
15	Role of partial linear momentum transfer on incomplete fusion reaction. European Physical Journal A, 2018, 54, 1.	2.5	11
16	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
17	Energy dependence of pre-equilibrium emission for the (p,xn) reactions in niobium. Indian Journal of Physics, 2012, 86, 913-918.	1.8	10
18	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. Vibrational Spectroscopy, 2020, 111, 103151.	2.2	9

#	ARTICLE	IF	CITATIONS
19	Conformational and vibrational spectroscopic investigation of N-nâ€butyl, S-2-nitro-1-(p-tolyl)ethyl dithiocarbamate â€ a bio-relevant sulfur molecule. Journal of Molecular Structure, 2021, 1238, 130450.	3.6	8
20	Effect of thermal annealing on the formation of silicon nanoclusters in SiOX films grown by PLD. Physica B: Condensed Matter, 2011, 406, 2148-2151.	2.7	6
21	Low-energy nuclear reaction of the $^{16}\text{O} + \text{O}$ interaction at low energies. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3233-3236.	2.9	6
22	Influence of Ag doping concentration on structural and optical properties of CdS thin film. AIP Conference Proceedings, 2015, , .	0.4	6
23	Influence of projectile structure and target deformation on incomplete fusion in the $^{16}\text{O} + \text{O}$ system. Physical Review C, 2011, 83, 014607.	2.9	6
24	Ion beam induced formation of nanocrystalline silicon in pulsed laser deposited SiOX thin films. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3233-3236.	2.9	6
25	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.	1.4	5
26	Systematic of fusion incompleteness in reactions induced by ^{16}O cluster projectiles. Physical Review C, 2019, 100, .	0.3	5
27	Role of the entrance channel in the experimental study of incomplete fusion of $^{16}\text{O} + \text{Nb}$. Physical Review C, 2022, 105, .	2.9	5
28	Mass-Asymmetry effects in heavy ion reactions: Complete fusion Vs incomplete fusion. EPJ Web of Conferences, 2014, 66, 03024.	0.3	3
29	Mass and Isotopic Yield Distribution of Fission Like Events in $^{16}\text{O} + ^{175}\text{Lu}$ System at 6â€MeV/A. , 2015, , .		0
30	Study of Complete and Incomplete Fusion Reaction Dynamics in $^{16}\text{O} + ^{55}\text{Mn}$ Interactions near the Coulomb Barrier Energies. , 2015, , .		0