Shoaib Ahmad

List of Publications by Year
in descending order

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44	412	933410	839512
papers	citations	10 h-index	18 g-index

45	45	45	172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dislocation motion in ice: A study by synchrotron X-ray topography. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1988, 57, 749-766.	0.6	92
2	Observation of a dislocation source in ice by synchrotron radiation topography. Nature, 1986, 319, 659-660.	27.8	61
3	Continuum elastic model of fullerenes and the sphericity of the carbon onion shells. Journal of Chemical Physics, 2002, 116, 3396-3400.	3.0	20
4	The effect of ion mass and target temperature on the energy distribution of sputtered atoms. Nuclear Instruments & Methods, 1980, 170, 327-330.	1.2	18
5	Some effects of ion mass on the energy spectrum of sputtered gold atoms. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1981, 44, 1387-1394.	0.6	18
6	Modelling of C2addition route to the formation of C60. Nanotechnology, 2006, 17, 4654-4658.	2.6	15
7	Photoemission spectroscopy and velocity analysis of sputtered carbon atoms, ions, and clusters Cm0,Â±â€Š(mâ©½4). Applied Physics Letters, 1999, 75, 4100-4102.	3.3	12
8	A magnetically confined hollow cathode duoplasmatron for the PINSTECH ion implanter. Nuclear Instruments & Methods in Physics Research B, 1994, 94, 597-600.	1.4	11
9	Criteria for the growth of fullerenes and single-walled carbon nanotubes in sooting environments. Nanotechnology, 2005, 16, 1739-1745.	2.6	11
10	C3 as the dominant carbon cluster in high pressure discharges in graphite hollow cathodes. Journal Physics D: Applied Physics, 2007, 40, 1416-1421.	2.8	10
11	A cusp field, hollow cathode, carbon cluster ion source. Nuclear Instruments & Methods in Physics Research B, 1999, 152, 506-514.	1.4	9
12	Dynamics of fragmentation and multiple vacancy generation in irradiated single-walled carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2013, 295, 22-29.	1.4	9
13	Evolution of clusters in energetic heavy ion bombarded amorphous graphite. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 367-371.	2.1	8
14	Sputtering of graphite in pulsed and continuous arc and spark discharges. Nuclear Instruments & Methods in Physics Research B, 2007, 263, 497-502.	1.4	8
15	Mass spectrometric identification of C60's fragmentation regimes under energetic Cs+ bombardment. International Journal of Mass Spectrometry, 2012, 311, 1-6.	1.5	8
16	Carbon cluster formation in regenerative sooting plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 261, 327-331.	2.1	7
17	Role of the kinetic and potential sputtering in the regeneration of the soot. Applied Physics Letters, 2001, 78, 1499-1501.	3.3	6
18	Low energy heavy ion detection with the plastic scintillator NE102E. Nuclear Instruments & Methods in Physics Research B, 2003, 207, 333-338.	1.4	6

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19	Cs+ sputtered clusters from multi-walled carbon nanotubes, graphite and the structural transformations. Nuclear Instruments & Methods in Physics Research B, 2012, 271, 55-60.	1.4	6
20	Emission of carbon clusters from sooting plasma. EPJ Applied Physics, 1999, 5, 111-114.	0.7	5
21	Spectroscopy of the regenerative soot. European Physical Journal D, 2002, 18, 309-318.	1.3	5
22	An information theoretic model for the linear and nonlinear dissipative structures in irradiated single-walled carbon nanotubes. Chemical Physics Letters, 2018, 707, 144-149.	2.6	5
23	Title is missing!. European Physical Journal D, 2002, 18, 309-318.	1.3	5
24	The sputtering of gold single crystals by Ar⁺ions. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1985, 50, 299-308.	0.6	4
25	Multiply charged direct recoil spectra from Ar+ and Kr+ bombarded graphite. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 19-27.	1.4	4
26	Sputtering and formation of C1 and C2 in the regenerative sooting discharge. Nuclear Instruments & Methods in Physics Research B, 2000, 171, 551-557.	1.4	4
27	The degenerate Fermi gas of Ï€ electrons in fullerenes and the Ïƒ surface instabilities. Nanotechnology, 2006, 17, 1686-1694.	2.6	4
28	Amorphous carbon films in direct current magnetron sputtering from regenerative sooting discharge. Vacuum, 2011, 86, 193-200.	3.5	4
29	Thermal spike-induced cluster sublimation from carbon nanotubes. Philosophical Magazine, 2017, 97, 1436-1444.	1.6	4
30	Information-theoretic model of self-organizing fullerenes and the emergence of C60. Chemical Physics Letters, 2018, 713, 52-57.	2.6	4
31	A compact, permanent-magnet-based EÃ—B velocity filter for carbon cluster diagnostics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 452, 371-376.	1.6	3
32	Transition from theC3-dominated discharge to the sooting plasma. Physical Review E, 2001, 64, 026408.	2.1	3
33	The excited states of the neutral and ionized carbon in the regenerative sooting discharges. Journal Physics D: Applied Physics, 2003, 36, 1176-1182.	2.8	3
34	Formation of CN in N2+ He discharges in graphite hollow cathodes. Journal Physics D: Applied Physics, 2005, 38, 1565-1570.	2.8	3
35	Information generating, sharing, and manipulating Source-Reservoir-Sink model of self-organizing dissipative structures. Chaos, 2018, 28, 123125.	2.5	3
36	Space-filling, multifractal, localized thermal spikes in Si, Ge and ZnO. European Physical Journal D, 2018, 72, 1.	1.3	3

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37	Regenerative soot as a source of broad band VUV light. European Physical Journal D, 2003, 22, 189-192.	1.3	2
38	A study of population inversion of HeÂI and NeÂI in regenerative sooting discharges. Journal Physics D: Applied Physics, 2004, 37, 1234-1240.	2.8	2
39	The role of the C2 gas in the emergence of C60 from the condensing carbon vapour. European Physical Journal D, 2013, 67, 1.	1.3	2
40	Energy spectra of charged clusters recoiling from Xe+irradiated graphite surface. Radiation Effects and Defects in Solids, 2000, 153, 35-52.	1.2	1
41	The state of the carbon vapour in the regenerative sooting discharge. European Physical Journal D, 2001, 15, 349-354.	1.3	1
42	Toroidal structures from C60 agglomeration. Materials Letters, 2008, 62, 816-819.	2.6	1
43	A study of fullerite ablation with energetic pulsed electrons. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1097-1102.	1.4	1
44	Formation of carbon nano- and micro-structures on C⁺₁irradiated copper surfaces. Journal of Physics: Conference Series, 2013, 439, 012007.	0.4	1