

Asim Aijaz

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

625
citations

567281

15
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

642
citing authors

#	ARTICLE	IF	CITATIONS
1	A strategy for increased carbon ionization in magnetron sputtering discharges. <i>Diamond and Related Materials</i> , 2012, 23, 1-4.	3.9	97
2	Understanding the discharge current behavior in reactive high power impulse magnetron sputtering of oxides. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	86
3	Effect of peak power in reactive high power impulse magnetron sputtering of titanium dioxide. <i>Surface and Coatings Technology</i> , 2011, 205, 4828-4831.	4.8	70
4	Low-temperature synthesis of thermochromic vanadium dioxide thin films by reactive high power impulse magnetron sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 137-144.	6.2	70
5	Mechanical Properties of Hydrogen Free Diamond-Like Carbon Thin Films Deposited by High Power Impulse Magnetron Sputtering with Ne. <i>Coatings</i> , 2018, 8, 385.	2.6	31
6	Hard and dense diamond like carbon coatings deposited by deep oscillations magnetron sputtering. <i>Surface and Coatings Technology</i> , 2018, 336, 92-98.	4.8	29
7	Dual-magnetron open field sputtering system for sideways deposition of thin films. <i>Surface and Coatings Technology</i> , 2010, 204, 2165-2169.	4.8	27
8	Direct comparison of atomic layer deposition and sputtering of In ₂ O ₃ :H used as transparent conductive oxide layer in CuIn _{1-x} GaxSe ₂ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 757-764.	6.2	25
9	A novel high-power pulse PECVD method. <i>Surface and Coatings Technology</i> , 2012, 206, 4562-4566.	4.8	24
10	Deposition of yttria-stabilized zirconia thin films by high power impulse magnetron sputtering and pulsed magnetron sputtering. <i>Surface and Coatings Technology</i> , 2014, 240, 1-6.	4.8	24
11	Effect of KF absorber treatment on the functionality of different transparent conductive oxide layers in CIGSe solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 13-23.	8.1	22
12	Using hydrogen-doped In ₂ O ₃ films as a transparent back contact in (Ag,Cu)(In,Ga)Se ₂ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 159-170.	8.1	19
13	Synthesis of hydrogenated diamondlike carbon thin films using neon-acetylene based high power impulse magnetron sputtering discharges. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, 061504.	2.1	18
14	Evolution of sputtering target surface composition in reactive high power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	17
15	Principles for designing sputtering-based strategies for high-rate synthesis of dense and hard hydrogenated amorphous carbon thin films. <i>Diamond and Related Materials</i> , 2014, 44, 117-122.	3.9	16
16	Ion induced stress relaxation in dense sputter-deposited DLC thin films. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	16
17	Discharge runaway in high power impulse magnetron sputtering of carbon: the effect of gas pressure, composition and target peak voltage. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 165201.	2.8	12
18	High power impulse magnetron sputtering of diamond-like carbon coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	2.1	12

#	ARTICLE	IF	CITATIONS
19	Room Temperature Reactive Deposition of InGaZnO and ZnSnO Amorphous Oxide Semiconductors for Flexible Electronics. Coatings, 2020, 10, 2.	2.6	10