Dwaipayan Dasgupta

List of Publications by Year
in descending order

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21	259	1040056	940533
papers	citations	9 h-index	16 g-index

21	21	21	167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the origin of â€˜fuzzâ€™ formation in plasma-facing materials. Nuclear Fusion, 2019, 59, 086057.	3.5	56
2	Dynamic simulation of secondary treatment processes using trickling filters in a sewage treatment works in Howrah, west Bengal, India. Desalination, 2010, 253, 135-140.	8.2	31
3	Prediction of temperature range for the onset of fuzz formation in helium-plasma-implanted tungsten. Surface Science, 2020, 698, 121614.	1.9	17
4	Dynamic simulation of activated sludge based wastewater treatment processes: Case studies with Titagarh Sewage Treatment Plant, India. Desalination, 2010, 252, 120-126.	8.2	15
5	Current-driven nanowire formation on surfaces of crystalline conducting substrates. Applied Physics Letters, 2016, 108, 193109.	3.3	15
6	Surface nanopatterning from current-driven assembly of single-layer epitaxial islands. Applied Physics Letters, 2013, 103, .	3.3	14
7	Current-driven morphological evolution of single-layer epitaxial islands on crystalline substrates. Surface Science, 2013, 618, L1-L5.	1.9	13
8	Analysis of current-driven oscillatory dynamics of single-layer homoepitaxial islands on crystalline conducting substrates. Surface Science, 2018, 669, 25-33.	1.9	12
9	Effects of elastic softening and helium accumulation kinetics on surface morphological evolution of plasma-facing tungsten. Nuclear Fusion, 2021, 61, 016016.	3.5	11
10	Surface morphological stabilization of stressed crystalline solids by simultaneous action of applied electric and thermal fields. Applied Physics Letters, 2012, 100, .	3.3	10
11	Weakly nonlinear theory of secondary rippling instability in surfaces of stressed solids. Journal of Applied Physics, 2015, 118, .	2.5	10
12	Stabilization of the surface morphology of stressed solids using thermal gradients. Applied Physics Letters, 2014, 104, .	3.3	9
13	Complex Pattern Formation from Current-Driven Dynamics of Single-Layer Homoepitaxial Islands on Crystalline Conducting Substrates. Physical Review Applied, 2017, 8, .	3.8	9
14	NMPC of a Continuous Fermenter Using Wiener-Hammerstein Model Developed from Irregularly Sampled Multi-rate Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 637-642.	0.4	7
15	Surface nanopattern formation due to current-induced homoepitaxial nanowire edge instability. Applied Physics Letters, 2016, 109, .	3.3	6
16	Hole formation effect on surface morphological response of plasma-facing tungsten. Journal of Applied Physics, 2021, 129, 193302.	2.5	6
17	Onset of fuzz formation in plasma-facing tungsten as a surface morphological instability. Physical Review Materials, 2021, 5, .	2.4	6
18	Stabilization of the surface morphology of stressed solids using simultaneously applied electric fields and thermal gradients. Journal of Applied Physics, 2014, 116, .	2.5	5

#	Article	IF	Citations
19	The effect of a thermal gradient on the electromigration-driven surface morphological stabilization of an epitaxial thin film on a compliant substrate. Journal of Applied Physics, 2013, 114, 023503.	2.5	4
20	Thermal gradient effect on helium and self-interstitial transport in tungsten. Journal of Applied Physics, 2021, 130, .	2.5	2
21	Electromigration-driven complex dynamics of void surfaces in stressed metallic thin films under a general biaxial mechanical loading. Journal of Applied Physics, 2012, 112, 083523.	2.5	1