

Sumeet C Pandey

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22
papers

169
citations

7
h-index

12
g-index

24
ext. papers

202
ext. citations

2.7
avg, IF

2.68
L-index

#	Paper	IF	Citations
22	Formation of defects and impurities in MoS _x and their effect on electronic properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 030905	2.9	
21	The electrical resistivity of rough thin films: A model based on electron reflection at discrete step edges. <i>Journal of Applied Physics</i> , 2018 , 123, 155107	2.5	31
20	Atomistic mechanisms of ReRAM cell operation and reliability. <i>Materials Research Express</i> , 2018 , 5, 0140057		1
19	Physics insight and first-principles calculation of atomic conductance: implications for the future interconnects. <i>Materials Research Express</i> , 2018 , 5, 056308	1.7	
18	A model for etching of three-dimensional high aspect ratio silicon structures in pulsed inductively coupled plasmas. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 094003	3.5	5
17	QDB: a new database of plasma chemistries and reactions. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 055014	3.5	29
16	Electronic and vibrational properties of transition metal-oxides: Comparison of GGA, GGA + U, and hybrid approaches. <i>Chemical Physics Letters</i> , 2017 , 669, 1-8	2.5	6
15	. <i>IEEE Transactions on Magnetism</i> , 2016 , 52, 1-5	2	1
14	Voltage-controlled magnetization switching in MRAMs in conjunction with spin-transfer torque and applied magnetic field. <i>Journal of Applied Physics</i> , 2016 , 120, 203902	2.5	7
13	(Keynote) Nanoscale Memories: What Does Physics Have to Say?. <i>ECS Transactions</i> , 2015 , 69, 69-84	1	2
12	Cu impurity in insulators and in metal-insulator-metal structures: Implications for resistance-switching random access memories. <i>Journal of Applied Physics</i> , 2015 , 117, 054504	2.5	12
11	Design of semiconductor ternary quantum dots with optimal optoelectronic function. <i>AICHE Journal</i> , 2013 , 59, 3223-3236	3.6	8
10	Determination of effective work function of Pr _{0.7} Ca _{0.3} MnO ₃ and Pt films on ZrO _x using terraced-oxide method. <i>Applied Physics Letters</i> , 2013 , 103, 033516	3.4	2
9	Thermodynamic instability of ZnSe/ZnS core/shell quantum dots. <i>Journal of Applied Physics</i> , 2012 , 111, 113526	2.5	8
8	Kinetics of interdiffusion in semiconductor ternary quantum dots. <i>Applied Physics Letters</i> , 2012 , 101, 141906	3.4	3
7	Equilibrium compositional distribution in freestanding ternary semiconductor quantum dots: the case of In(x)Ga(1-x)As. <i>Journal of Chemical Physics</i> , 2011 , 135, 234701	3.9	5
6	Compositional effects on the electronic structure of ZnSe _{1-x} S _x ternary quantum dots. <i>Applied Physics Letters</i> , 2011 , 99, 101902	3.4	5

5	Effects of composition and compositional distribution on the electronic structure of ZnSe _{1-x} Te _x ternary quantum dots. <i>Journal of Applied Physics</i> , 2011 , 110, 123509	2-5	3
4	Theory of surface segregation in ternary semiconductor quantum dots. <i>Applied Physics Letters</i> , 2011 , 98, 091907	3-4	13
3	Formation of core/shell-like ZnSe _{1-x} Te _x nanocrystals due to equilibrium surface segregation. <i>Applied Physics Letters</i> , 2010 , 96, 201910	3-4	7
2	Kinetic Monte Carlo simulations of surface growth during plasma deposition of silicon thin films. <i>Journal of Chemical Physics</i> , 2009 , 131, 034503	3-9	16
1	On the growth mechanism of plasma deposited amorphous silicon thin films. <i>Applied Physics Letters</i> , 2008 , 93, 151913	3-4	4