Sumeet C Pandey

List of Publications by Year
in descending order

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		1162889	996849
24	220	8	15
papers	citations	h-index	g-index

24	24	24	329
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The electrical resistivity of rough thin films: A model based on electron reflection at discrete step edges. Journal of Applied Physics, 2018, 123, .	1.1	44
2	QDB: a new database of plasma chemistries and reactions. Plasma Sources Science and Technology, 2017, 26, 055014.	1.3	42
3	Electronic and vibrational properties of transition metal-oxides: Comparison of GGA, GGA + U, and hybrid approaches. Chemical Physics Letters, 2017, 669, 1-8.	1.2	19
4	Kinetic Monte Carlo simulations of surface growth during plasma deposition of silicon thin films. Journal of Chemical Physics, 2009, 131, 034503.	1.2	18
5	Cu impurity in insulators and in metal-insulator-metal structures: Implications for resistance-switching random access memories. Journal of Applied Physics, 2015, 117, 054504.	1.1	14
6	Theory of surface segregation in ternary semiconductor quantum dots. Applied Physics Letters, 2011, 98, .	1.5	13
7	Thermodynamic instability of ZnSe/ZnS core/shell quantum dots. Journal of Applied Physics, 2012, 111, 113526.	1.1	9
8	Design of semiconductor ternary quantum dots with optimal optoelectronic function. AICHE Journal, 2013, 59, 3223-3236.	1.8	9
9	Formation of core/shell-like ZnSe1â^'xTex nanocrystals due to equilibrium surface segregation. Applied Physics Letters, 2010, 96, .	1.5	7
10	Voltage-controlled magnetization switching in MRAMs in conjunction with spin-transfer torque and applied magnetic field. Journal of Applied Physics, 2016, 120, 203902.	1.1	7
11	A model for etching of three-dimensional high aspect ratio silicon structures in pulsed inductively coupled plasmas. Plasma Sources Science and Technology, 2018, 27, 094003.	1.3	6
12	Equilibrium compositional distribution in freestanding ternary semiconductor quantum dots: The case of InxGa1â^'xAs. Journal of Chemical Physics, 2011, 135, 234701.	1.2	5
13	Compositional effects on the electronic structure of ZnSe1â^'xSx ternary quantum dots. Applied Physics Letters, 2011, 99, .	1.5	5
14	On the growth mechanism of plasma deposited amorphous silicon thin films. Applied Physics Letters, 2008, 93, 151913.	1.5	4
15	Computational study of gate-induced drain leakage in 2D-semiconductor field-effect transistors. , 2017, , .		4
16	Effects of composition and compositional distribution on the electronic structure of ZnSe1â^'xTex ternary quantum dots. Journal of Applied Physics, 2011, 110, 123509.	1.1	3
17	Kinetics of interdiffusion in semiconductor ternary quantum dots. Applied Physics Letters, 2012, 101, .	1.5	3
18	Determination of effective work function of Pr0.7Ca0.3MnO3 and Pt films on ZrOx using terraced-oxide method. Applied Physics Letters, 2013, 103, 033516.	1.5	2

#	Article	IF	Citations
19	(Keynote) Nanoscale Memories: What Does Physics Have to Say?. ECS Transactions, 2015, 69, 69-84.	0.3	2
20	Atomistic mechanisms of ReRAM cell operation and reliability. Materials Research Express, 2018, 5, 014005.	0.8	2
21	Theoretical Study of Magnetic Damping and Anisotropy of Fe/Pd (001) Superlattice. IEEE Transactions on Magnetics, 2016, 52, 1-5.	1.2	1
22	Physics insight and first-principles calculation of atomic conductance: implications for the future interconnects. Materials Research Express, 2018, 5, 056308.	0.8	1
23	Interconnect Challenges and Opportunities in the Memory Space. , 2018, , .		0
24	Formation of defects and impurities in MoSx and their effect on electronic properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 030905.	0.9	0