Sumeet C Pandey

List of Publications by Citations

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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	The electrical resistivity of rough thin films: A model based on electron reflection at discrete step edges. *Journal of Applied Physics*, **2018**, 123, 155107	2.5	31
21	QDB: a new database of plasma chemistries and reactions. *Plasma Sources Science and Technology*, **2017**, 26, 055014	3.5	29
20	Kinetic Monte Carlo simulations of surface growth during plasma deposition of silicon thin films. *Journal of Chemical Physics*, **2009**, 131, 034503	3.9	16
19	Theory of surface segregation in ternary semiconductor quantum dots. *Applied Physics Letters*, **2011**, 98, 091907	3.4	13
18	Cu impurity in insulators and in metal-insulator-metal structures: Implications for resistance-switching random access memories. *Journal of Applied Physics*, **2015**, 117, 054504	2.5	12
17	Design of semiconductor ternary quantum dots with optimal optoelectronic function. *AICHE Journal*, **2013**, 59, 3223-3236	3.6	8
16	Thermodynamic instability of ZnSe/ZnS core/shell quantum dots. *Journal of Applied Physics*, **2012**, 111, 113526	2.5	8
15	Formation of core/shell-like ZnSe1−xTex nanocrystals due to equilibrium surface segregation. *Applied Physics Letters*, **2010**, 96, 201910	3.4	7
14	Voltage-controlled magnetization switching in MRAMs in conjunction with spin-transfer torque and applied magnetic field. *Journal of Applied Physics*, **2016**, 120, 203902	2.5	7
13	Electronic and vibrational properties of transition metal-oxides: Comparison of GGA, GGA + U, and hybrid approaches. *Chemical Physics Letters*, **2017**, 669, 1-8	2.5	6
12	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	3.5	5
11	Equilibrium compositional distribution in freestanding ternary semiconductor quantum dots: the case of In(x)Ga(1-x)As. *Journal of Chemical Physics*, **2011**, 135, 234701	3.9	5
10	Compositional effects on the electronic structure of ZnSe1−xSx ternary quantum dots. *Applied Physics Letters*, **2011**, 99, 101902	3.4	5
9	On the growth mechanism of plasma deposited amorphous silicon thin films. *Applied Physics Letters* , **2008**, 93, 151913	3.4	4
8	Effects of composition and compositional distribution on the electronic structure of ZnSe1−xTex ternary quantum dots. *Journal of Applied Physics*, **2011**, 110, 123509	2.5	3
7	Kinetics of interdiffusion in semiconductor ternary quantum dots. *Applied Physics Letters*, **2012**, 101, 141906	3.4	3
6	(Keynote) Nanoscale Memories: What Does Physics Have to Say?. *ECS Transactions*, **2015**, 69, 69-84	1	2

List of Publications

5	Determination of effective work function of Pr0.7Ca0.3MnO3 and Pt films on ZrOx using terraced-oxide method. *Applied Physics Letters*, **2013**, 103, 033516	3.4	2
4	Atomistic mechanisms of ReRAM cell operation and reliability. *Materials Research Express*, **2018**, 5, 014005	1.7	1
3	. *IEEE Transactions on Magnetics*, **2016**, 52, 1-5	2	1
2	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	2.9	
1	Physics insight and first-principles calculation of atomic conductance: implications for the future interconnects. *Materials Research Express*, **2018**, 5, 056308	1.7	