Faruque M Hossain

List of Publications by Year
in descending order

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24	1,124	567281 15	752698 20
papers	citations	h-index	g-index

24	24	24	1484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling and simulation of polycrystalline ZnO thin-film transistors. Journal of Applied Physics, 2003, 94, 7768.	2.5	284
2	High Mobility Thin Film Transistors with Transparent ZnO Channels. Japanese Journal of Applied Physics, 2003, 42, L347-L349.	1.5	267
3	AbÂInitioElectronic and Optical Properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>â^'</mml:mo><mml:msup><mml:mi>V</mml:mi><mml:mo>â^'</mml:mo></mml:msup> in Diamond. Physical Review Letters, 2008, 101, 226403.	7.8	77
4	High Performance Graphene Nano-ribbon Thermoelectric Devices by Incorporation and Dimensional Tuning of Nanopores. Scientific Reports, 2015, 5, 11297.	3.3	71
5	Modeling of grain boundary barrier modulation in ZnO invisible thin film transistors. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 911-915.	2.7	70
6	Electronic, optical and bonding properties of CaCO3 calcite. Solid State Communications, 2009, 149, 1201-1203.	1.9	58
7	All-Graphene Planar Self-Switching MISFEDs, Metal-Insulator-Semiconductor Field-Effect Diodes. Scientific Reports, 2014, 4, 3983.	3.3	42
8	Electronic and optical properties of anatase TiO2 nanotubes. Computational Materials Science, 2010, 48, 854-858.	3.0	40
9	Electronic, optical and bonding properties of MgCO3. Solid State Communications, 2010, 150, 848-851.	1.9	37
10	Negative differential resistance effect in planar graphene nanoribbon break junctions. Nanoscale, 2015, 7, 289-293.	5.6	37
11	Asymmetrically-gated graphene self-switching diodes as negative differential resistance devices. Nanoscale, 2014, 6, 7628-7634.	5.6	25
12	Tuneable graphene nanopores for single biomolecule detection. Nanoscale, 2016, 8, 10066-10077.	5.6	19
13	Enhanced thermoelectric performance of graphene nanoribbon-based devices. Journal of Applied Physics, 2016, 119, .	2.5	18
14	All-Graphene Planar Double Barrier Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2014, 2, 118-122.	2.1	16
15	Monolayer MoS2 self-switching diodes. Journal of Applied Physics, 2016, 119, .	2.5	16
16	All-Graphene Planar Double-Quantum-Dot Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2016, 4, 30-39.	2.1	14
17	Highly Effective Conductance Modulation in Planar Silicene Field Effect Devices Due to Buckling. Scientific Reports, 2015, 5, 14815.	3.3	12
18	A graphene nanoribbon neuro-sensor for glycine detection and imaging. Journal of Applied Physics, 2014, 115, .	2.5	10

#	Article	IF	Citations
19	Contactless electronic transport in a bio-molecular junction. Applied Physics Letters, 2014, 105, .	3.3	6
20	First-principles calculations of a corrugated anatase TiO2 surface. Computational Materials Science, 2012, 51, 78-82.	3.0	3
21	Enhanced thermoelectric properties of engineered graphene nano-ribbons with nano-pores. , 2014, , .		2
22	HossainetÂal.Reply:. Physical Review Letters, 2009, 102, .	7.8	0
23	Graphene field effect Nanopore glycine detector. , 2014, , .		0
24	Graphene nano-ribbon with nano-breaks as efficient thermoelectric device. , 2015, , .		0