

Faruque M Hossain

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,124
citations

567281

15
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermoelectric performance of graphene nanoribbon-based devices. Journal of Applied Physics, 2016, 119, .	2.5	18
2	Monolayer MoS2 self-switching diodes. Journal of Applied Physics, 2016, 119, .	2.5	16
3	All-Graphene Planar Double-Quantum-Dot Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2016, 4, 30-39.	2.1	14
4	Tuneable graphene nanopores for single biomolecule detection. Nanoscale, 2016, 8, 10066-10077.	5.6	19
5	Highly Effective Conductance Modulation in Planar Silicene Field Effect Devices Due to Buckling. Scientific Reports, 2015, 5, 14815.	3.3	12
6	Graphene nano-ribbon with nano-breaks as efficient thermoelectric device. , 2015, , .		0
7	High Performance Graphene Nano-ribbon Thermoelectric Devices by Incorporation and Dimensional Tuning of Nanopores. Scientific Reports, 2015, 5, 11297.	3.3	71
8	Negative differential resistance effect in planar graphene nanoribbon break junctions. Nanoscale, 2015, 7, 289-293.	5.6	37
9	A graphene nanoribbon neuro-sensor for glycine detection and imaging. Journal of Applied Physics, 2014, 115, .	2.5	10
10	Contactless electronic transport in a bio-molecular junction. Applied Physics Letters, 2014, 105, .	3.3	6
11	Enhanced thermoelectric properties of engineered graphene nano-ribbons with nano-pores. , 2014, , .		2
12	Graphene field effect Nanopore glycine detector. , 2014, , .		0
13	Asymmetrically-gated graphene self-switching diodes as negative differential resistance devices. Nanoscale, 2014, 6, 7628-7634.	5.6	25
14	All-Graphene Planar Double Barrier Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2014, 2, 118-122.	2.1	16
15	All-Graphene Planar Self-Switching MISFEDs, Metal-Insulator-Semiconductor Field-Effect Diodes. Scientific Reports, 2014, 4, 3983.	3.3	42
16	First-principles calculations of a corrugated anatase TiO2 surface. Computational Materials Science, 2012, 51, 78-82.	3.0	3
17	Electronic, optical and bonding properties of MgCO3. Solid State Communications, 2010, 150, 848-851.	1.9	37
18	Electronic and optical properties of anatase TiO2 nanotubes. Computational Materials Science, 2010, 48, 854-858.	3.0	40

#	ARTICLE	IF	CITATIONS
19	Hossain <i>et al.</i> Reply: Physical Review Letters, 2009, 102, .	7.8	0
20	Electronic, optical and bonding properties of CaCO ₃ calcite. Solid State Communications, 2009, 149, 1201-1203.	1.9	58
21	<i>Ab Initio</i> Electronic and Optical Properties of the $N^{\sim}V^{\sim}$ in Diamond. Physical Review Letters, 2008, 101, 226403.	7.8	77
22	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
23	Modeling and simulation of polycrystalline ZnO thin-film transistors. Journal of Applied Physics, 2003, 94, 7768.	2.5	284
24	High Mobility Thin Film Transistors with Transparent ZnO Channels. Japanese Journal of Applied Physics, 2003, 42, L347-L349.	1.5	267