Atikur Rahman

List of Publications by Citations

41 papers	1,150 citations	14 h-index	33 g-index
43 ext. papers	1,331 ext. citations	7 avg, IF	4.58 L-index

#	Paper	IF	Citations
41	Antifogging abilities of model nanotextures. *Nature Materials*, **2017**, 16, 658-663	27	195
40	Sub-50-nm self-assembled nanotextures for enhanced broadband antireflection in silicon solar cells. *Nature Communications*, **2015**, 6, 5963	17.4	179
39	Robust superhydrophobicity in large-area nanostructured surfaces defined by block-copolymer self assembly. *Advanced Materials*, **2014**, 26, 886-91	24	143
38	Collapse and Reversibility of the Superhydrophobic State on Nanotextured Surfaces. *Physical Review Letters*, **2014**, 112,	7.4	103
37	Arbitrary lattice symmetries via block copolymer nanomeshes. *Nature Communications*, **2015**, 6, 7448	17.4	89
36	Non-native three-dimensional block copolymer morphologies. *Nature Communications*, **2016**, 7, 13988	17.4	62
35	Wettability of partially suspended graphene. *Scientific Reports*, **2016**, 6, 24237	4.9	40
34	Observation of charge density wave characteristics in conducting polymer nanowires: Possibility of Wigner crystallization. *Physical Review B*, **2007**, 76,	3.3	37
33	Novel Switching Transition of Resistance Observed in Conducting Polymer Nanowires. *Advanced Materials*, **2007**, 19, 3956-3960	24	28
32	Self-assembled nanotextures impart broadband transparency to glass windows and solar cell encapsulants. *Applied Physics Letters*, **2017**, 111, 183901	3.4	27
31	Low-temperature processing of optimally polymer-wrapped □CsPbI3 for self-powered flexible photo-detector application. *Journal of Materials Chemistry C*, **2019**, 7, 6986-6996	7.1	27
30	Gas Transport Selectivity of Ultrathin, Nanoporous, Inorganic Membranes Made from Block Copolymer Templates. *Chemistry of Materials*, **2017**, 29, 9572-9578	9.6	19
29	Angle-dependent transmission in graphene heterojunctions. *Applied Physics Letters*, **2015**, 106, 013112	3.4	17
28	Transmission of phase information between electrons and holes in graphene. *Physical Review B*, **2013**, 87,	3.3	16
27	Locally Favored Two-Dimensional Structures of Block Copolymer Melts on Nonneutral Surfaces. *Macromolecules*, **2018**, 51, 520-528	5.5	13
26	Measurement of critical currents of superconducting aluminum nanowires in external magnetic fields: evidence for a Weber blockade. *Physical Review Letters*, **2015**, 114, 077002	7.4	12
25	Negative capacitance in Wigner crystal forming polymer nanowires. *Applied Physics Letters*, **2009**, 94, 242102	3.4	12

24	Ballistics of self-jumping microdroplets. *Physical Review Fluids*, **2019**, 4,	2.8	12
23	Substrate-independent catalyst-free synthesis of high-purity Bi2Se3 nanostructures. *Applied Physics Letters*, **2013**, 102, 193108	3.4	11
22	Bias dependent crossover from variable range hopping to power law characteristics in the resistivity of polymer nanowires. *Journal of Physics Condensed Matter*, **2010**, 22, 175301	1.8	10
21	Diameter-dependent coercivity of cobalt nanowires. *Applied Physics A: Materials Science and Processing*, **2013**, 112, 775-780	2.6	9
20	Slip Length Enhancement in Nanofluidic Flow using Nanotextured Superhydrophobic Surfaces. *Advanced Materials Interfaces*, **2016**, 3, 1600303	4.6	8
19	The tunable bistable and multistable memory effect in polymer nanowires. *Nanotechnology*, **2008**, 19, 395203	3.4	8
18	Robust X-ray angular correlations for the study of meso-structures. *Journal of Applied Crystallography*, **2017**, 50, 805-819	3.8	7
17	How to train your CVD to grow large-area 2D materials. *Materials Research Express*, **2019**, 6, 125002	1.7	7
16	Block copolymer self assembly for design and vapor-phase synthesis of nanostructured antireflective surfaces. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2014**, 32, 06FE02	1.3	7
15	Quantum interference noise near the Dirac point in graphene. *Physical Review B*, **2014**, 89,	3.3	7
14	Correlated charge carrier-like photoresponse of polymer nanowires. *ACS Nano*, **2013**, 7, 7894-900	16.7	7
13	Understanding the thermal degradation mechanism of perovskite solar cells via dielectric and noise measurements. *Nanotechnology*, **2020**, 31, 365403	3.4	6
12	Quantum noise and asymmetric scattering of electrons and holes in graphene. *Nano Letters*, **2014**, 14, 6621-5	11.5	6
11	Enhancement of electron–electron interactions in chemically synthesized polymer nanowires. *Chemical Physics Letters*, **2007**, 447, 268-273	2.5	5
10	Hybrid nanotubes: Single step formation of homogeneous nanotubes of polypyrrole-gold composites and novel switching transition of resistance beyond liquid nitrogen temperature. *Journal of Applied Physics*, **2012**, 112, 044304	2.5	4
9	Patterning Superconductivity in a Topological Insulator. *ACS Nano*, **2017**, 11, 5873-5878	16.7	3
8	Modulating flow near substrate surface to grow clean and large-area monolayer MoS. *Nanotechnology*, **2020**, 31, 415706	3.4	3
7	Anomalous effect of UV light on the humidity dependence of photocurrent in perovskite solar cells. *Nanotechnology*, **2018**, 29, 405701	3.4	3

6	Asymmetric water diffusion driven nanotube actuator. *RSC Advances*, **2014**, 4, 17573-17578	3.7	3
5	Giant Photoresponse Enhancement in Mixed-Dimensional Van der Waals Heterostructure through Dielectric Engineering. *Advanced Materials Interfaces*,2102054	4.6	2
4	Silver Oxide-Decorated Silica Nanoparticles for Visible-Light-Driven Photolytic Pollutant Degradation and Water□Oil Separation. *ACS Applied Nano Materials*, **2022**, 5, 939-947	5.6	1
3	Stacking Engineered Room Temperature Ferroelectricity in Twisted Germanium Sulfide Nanowires. *Advanced Electronic Materials*,2101158	6.4	1
2	Anomalous effect of biased oscillating field on the switching behaviour: Modulating friction of charge carriers in nanowires. *Europhysics Letters*, **2009**, 88, 47009	1.6	
1	Modulation of trion and exciton formation in monolayer WS2 by dielectric and substrate engineering. *2D Materials*, **2021**, 8, 045032	5.9	