

Atikur Rahman

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3005966/atikur-rahman-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Silver Oxide-Decorated Silica Nanoparticles for Visible-Light-Driven Photolytic Pollutant Degradation and Water/Oil Separation. <i>ACS Applied Nano Materials</i> , 2022 , 5, 939-947	5.6	1
40	Modulation of trion and exciton formation in monolayer WS ₂ by dielectric and substrate engineering. <i>2D Materials</i> , 2021 , 8, 045032	5.9	
39	Understanding the thermal degradation mechanism of perovskite solar cells via dielectric and noise measurements. <i>Nanotechnology</i> , 2020 , 31, 365403	3.4	6
38	Modulating flow near substrate surface to grow clean and large-area monolayer MoS ₂ . <i>Nanotechnology</i> , 2020 , 31, 415706	3.4	3
37	Low-temperature processing of optimally polymer-wrapped F ₁₂₇ -PbI ₂ for self-powered flexible photo-detector application. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6986-6996	7.1	27
36	How to Brainly your CVD to grow large-area 2D materials. <i>Materials Research Express</i> , 2019 , 6, 125002	1.7	7
35	Ballistics of self-jumping microdroplets. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	12
34	Locally Favored Two-Dimensional Structures of Block Copolymer Melts on Nonneutral Surfaces. <i>Macromolecules</i> , 2018 , 51, 520-528	5.5	13
33	Anomalous effect of UV light on the humidity dependence of photocurrent in perovskite solar cells. <i>Nanotechnology</i> , 2018 , 29, 405701	3.4	3
32	Antifogging abilities of model nanotextures. <i>Nature Materials</i> , 2017 , 16, 658-663	27	195
31	Patterning Superconductivity in a Topological Insulator. <i>ACS Nano</i> , 2017 , 11, 5873-5878	16.7	3
30	Self-assembled nanotextures impart broadband transparency to glass windows and solar cell encapsulants. <i>Applied Physics Letters</i> , 2017 , 111, 183901	3.4	27
29	Gas Transport Selectivity of Ultrathin, Nanoporous, Inorganic Membranes Made from Block Copolymer Templates. <i>Chemistry of Materials</i> , 2017 , 29, 9572-9578	9.6	19
28	Robust X-ray angular correlations for the study of meso-structures. <i>Journal of Applied Crystallography</i> , 2017 , 50, 805-819	3.8	7
27	Slip Length Enhancement in Nanofluidic Flow using Nanotextured Superhydrophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600303	4.6	8
26	Wettability of partially suspended graphene. <i>Scientific Reports</i> , 2016 , 6, 24237	4.9	40
25	Non-native three-dimensional block copolymer morphologies. <i>Nature Communications</i> , 2016 , 7, 13988	17.4	62

24	Sub-50-nm self-assembled nanotextures for enhanced broadband antireflection in silicon solar cells. <i>Nature Communications</i> , 2015 , 6, 5963	17.4	179
23	Arbitrary lattice symmetries via block copolymer nanomeshes. <i>Nature Communications</i> , 2015 , 6, 7448	17.4	89
22	Angle-dependent transmission in graphene heterojunctions. <i>Applied Physics Letters</i> , 2015 , 106, 013112	3.4	17
21	Measurement of critical currents of superconducting aluminum nanowires in external magnetic fields: evidence for a Weber blockade. <i>Physical Review Letters</i> , 2015 , 114, 077002	7.4	12
20	Robust superhydrophobicity in large-area nanostructured surfaces defined by block-copolymer self assembly. <i>Advanced Materials</i> , 2014 , 26, 886-91	24	143
19	Quantum noise and asymmetric scattering of electrons and holes in graphene. <i>Nano Letters</i> , 2014 , 14, 6621-5	11.5	6
18	Asymmetric water diffusion driven nanotube actuator. <i>RSC Advances</i> , 2014 , 4, 17573-17578	3.7	3
17	Block copolymer self assembly for design and vapor-phase synthesis of nanostructured antireflective surfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 06FE02	1.3	7
16	Collapse and Reversibility of the Superhydrophobic State on Nanotextured Surfaces. <i>Physical Review Letters</i> , 2014 , 112,	7.4	103
15	Quantum interference noise near the Dirac point in graphene. <i>Physical Review B</i> , 2014 , 89,	3.3	7
14	Diameter-dependent coercivity of cobalt nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 775-780	2.6	9
13	Correlated charge carrier-like photoresponse of polymer nanowires. <i>ACS Nano</i> , 2013 , 7, 7894-900	16.7	7
12	Substrate-independent catalyst-free synthesis of high-purity Bi ₂ Se ₃ nanostructures. <i>Applied Physics Letters</i> , 2013 , 102, 193108	3.4	11
11	Transmission of phase information between electrons and holes in graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	16
10	Hybrid nanotubes: Single step formation of homogeneous nanotubes of polypyrrole-gold composites and novel switching transition of resistance beyond liquid nitrogen temperature. <i>Journal of Applied Physics</i> , 2012 , 112, 044304	2.5	4
9	Bias dependent crossover from variable range hopping to power law characteristics in the resistivity of polymer nanowires. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 175301	1.8	10
8	Negative capacitance in Wigner crystal forming polymer nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 242102	3.4	12
7	Anomalous effect of biased oscillating field on the switching behaviour: Modulating friction of charge carriers in nanowires. <i>Europhysics Letters</i> , 2009 , 88, 47009	1.6	

6	The tunable bistable and multistable memory effect in polymer nanowires. <i>Nanotechnology</i> , 2008 , 19, 395203	3.4	8
5	Novel Switching Transition of Resistance Observed in Conducting Polymer Nanowires. <i>Advanced Materials</i> , 2007 , 19, 3956-3960	2.4	28
4	Enhancement of electron-electron interactions in chemically synthesized polymer nanowires. <i>Chemical Physics Letters</i> , 2007 , 447, 268-273	2.5	5
3	Observation of charge density wave characteristics in conducting polymer nanowires: Possibility of Wigner crystallization. <i>Physical Review B</i> , 2007 , 76,	3.3	37
2	Giant Photoresponse Enhancement in Mixed-Dimensional Van der Waals Heterostructure through Dielectric Engineering. <i>Advanced Materials Interfaces</i> , 2102054	4.6	2
1	Stacking Engineered Room Temperature Ferroelectricity in Twisted Germanium Sulfide Nanowires. <i>Advanced Electronic Materials</i> , 2101158	6.4	1