

Saiful I Khondaker

List of Publications by Citations

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77
papers

6,463
citations

32
h-index

80
g-index

80
ext. papers

7,067
ext. citations

5.8
avg, IF

5.88
L-index

#	Paper	IF	Citations
77	Graphene based materials: Past, present and future. <i>Progress in Materials Science</i> , 2011 , 56, 1178-1271	42.2	2607
76	Ultralight multiwalled carbon nanotube aerogel. <i>ACS Nano</i> , 2010 , 4, 7293-302	16.7	427
75	Dispersion of Pristine Carbon Nanotubes Using Conjugated Block Copolymers. <i>Advanced Materials</i> , 2008 , 20, 2055-2060	24	215
74	Photoluminescence Quenching in Single-Layer MoS ₂ via Oxygen Plasma Treatment. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21258-21263	3.8	197
73	Tuning the electrical property via defect engineering of single layer MoS ₂ by oxygen plasma. <i>Nanoscale</i> , 2014 , 6, 10033-9	7.7	160
72	Position dependent photodetector from large area reduced graphene oxide thin films. <i>Applied Physics Letters</i> , 2010 , 96, 163109	3.4	160
71	Photoluminescence quenching in gold - MoS ₂ hybrid nanoflakes. <i>Scientific Reports</i> , 2014 , 4, 5575	4.9	159
70	Ultrahigh density alignment of carbon nanotube arrays by dielectrophoresis. <i>ACS Nano</i> , 2011 , 5, 1739-46	16.7	158
69	Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 148-157	3.1	155
68	Efros-Shklovskii variable-range hopping in reduced graphene oxide sheets of varying carbon sp ² fraction. <i>Physical Review B</i> , 2012 , 86,	3.3	134
67	Space charge limited conduction with exponential trap distribution in reduced graphene oxide sheets. <i>Applied Physics Letters</i> , 2010 , 97, 093105	3.4	127
66	Reduced Graphene Oxide/Copper Phthalocyanine Composite and Its Optoelectrical Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15129-15135	3.8	123
65	Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Electronic Transport Properties. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24494-24500	3.8	110
64	High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. <i>Nanotechnology</i> , 2010 , 21, 165202	3.4	108
63	Centimeter Scale Patterned Growth of Vertically Stacked Few Layer Only 2D MoS ₂ /WS ₂ van der Waals Heterostructure. <i>Scientific Reports</i> , 2016 , 6, 25456	4.9	99
62	High performance organic phototransistor based on regioregular poly(3-hexylthiophene). <i>Nanotechnology</i> , 2010 , 21, 325201	3.4	97
61	Thermionic emission and tunneling at carbon nanotube-organic semiconductor interface. <i>ACS Nano</i> , 2012 , 6, 4993-9	16.7	86

60	Semiconducting enriched carbon nanotube aligned arrays of tunable density and their electrical transport properties. <i>ACS Nano</i> , 2011 , 5, 6297-305	16.7	86
59	A General Strategy to Disperse and Functionalize Carbon Nanotubes Using Conjugated Block Copolymers. <i>Advanced Functional Materials</i> , 2009 , 19, 479-483	15.6	83
58	Fabrication of nanometer-spaced electrodes using gold nanoparticles. <i>Applied Physics Letters</i> , 2002 , 81, 4613-4615	3.4	80
57	Solvothermal Synthesis of High-Aspect Ratio Alloy Semiconductor Nanowires: Cd _{1-x} Zn _x S, a Case Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3617-3624	3.8	64
56	Coulomb blockade and hopping conduction in graphene quantum dots array. <i>Physical Review B</i> , 2011 , 83,	3.3	63
55	Electron transport through single phenylene-ethynylene molecular junctions at low temperature. <i>Applied Physics Letters</i> , 2004 , 85, 645-647	3.4	57
54	Dispersion of carbon nanotubes and polymer nanocomposite fabrication using trifluoroacetic acid as a co-solvent. <i>Nanotechnology</i> , 2007 , 18, 415606	3.4	53
53	Local-gated single-walled carbon nanotube field effect transistors assembled by AC dielectrophoresis. <i>Nanotechnology</i> , 2008 , 19, 175202	3.4	52
52	High quality solution processed carbon nanotube transistors assembled by dielectrophoresis. <i>Applied Physics Letters</i> , 2010 , 96, 083110	3.4	50
51	NanoEHS: Defining fundamental science needs: no easy feat when the simple itself is complex. <i>Environmental Science: Nano</i> , 2016 , 3, 15-27	7.1	48
50	The fabrication of single-electron transistors using dielectrophoretic trapping of individual gold nanoparticles. <i>Nanotechnology</i> , 2010 , 21, 095204	3.4	46
49	Two-dimensional lateral heterojunction through bandgap engineering of MoS ₂ via oxygen plasma. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 364002	1.8	40
48	Near-infrared photoresponse sensitization of solvent additive processed poly(3-hexylthiophene)/fullerene solar cells by a low band gap polymer. <i>Applied Physics Letters</i> , 2012 , 101, 053308	3.4	39
47	Bandgap Engineering of MoS ₂ Flakes via Oxygen Plasma: A Layer Dependent Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13801-13806	3.8	37
46	Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts. <i>New Journal of Physics</i> , 2011 , 13, 035021	2.9	32
45	Solution processed large area field effect transistors from dielectrophoretically aligned arrays of carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 113104	3.4	31
44	Fabrication of organic field effect transistor by directly grown poly(3 hexylthiophene) crystalline nanowires on carbon nanotube aligned array electrode. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1180-5	9.5	30
43	Ordered conjugated polymer nano- and microstructures: Structure control for improved performance of organic electronics. <i>Nano Today</i> , 2014 , 9, 705-721	17.9	29

42	Structural Evolution of Reduced Graphene Oxide of Varying Carbon sp ² Fractions Investigated via Coulomb Blockade Transport. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26776-26782	3.8	28
41	Centimeter-Scale 2D van der Waals Vertical Heterostructures Integrated on Deformable Substrates Enabled by Gold Sacrificial Layer-Assisted Growth. <i>Nano Letters</i> , 2017 , 17, 6157-6165	11.5	25
40	Controlled electroplating and electromigration in nickel electrodes for nanogap formation. <i>Nanotechnology</i> , 2010 , 21, 445304	3.4	21
39	Correlated electrical breakdown in arrays of high density aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 98, 243121	3.4	20
38	Sub 10 nm conjugated polymer transistors for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 539-544	8.5	20
37	Near-infrared photoresponse in single-walled carbon nanotube/polymer composite films. <i>Carbon</i> , 2010 , 48, 1539-1544	10.4	19
36	One pot synthesis of RGO/PbS nanocomposite and its near infrared photoresponse study. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 995-1001	2.6	18
35	Uniform Vapor-Pressure-Based Chemical Vapor Deposition Growth of MoS Using MoO Thin Film as a Precursor for Coevaporation. <i>ACS Omega</i> , 2018 , 3, 18943-18949	3.9	18
34	Diffusion mediated photoconduction in multiwalled carbon nanotube films. <i>Journal of Applied Physics</i> , 2009 , 106, 074307	2.5	17
33	Synthesis and Characterization of Reduced Graphene Oxide and Their Application in Dye-Sensitized Solar Cells. <i>ChemEngineering</i> , 2019 , 3, 7	2.6	17
32	High-performance short channel organic transistors using densely aligned carbon nanotube array electrodes. <i>Applied Physics Letters</i> , 2012 , 100, 023301	3.4	15
31	Evaluating defects in solution-processed carbon nanotube devices via low-temperature transport spectroscopy. <i>ACS Nano</i> , 2010 , 4, 2659-66	16.7	14
30	Scalable lateral heterojunction by chemical doping of 2D TMD thin films. <i>Scientific Reports</i> , 2020 , 10, 12970	4.9	14
29	High performance semiconducting enriched carbon nanotube thin film transistors using metallic carbon nanotubes as electrodes. <i>Nanoscale</i> , 2014 , 6, 4896-902	7.7	13
28	Controlled fabrication of single electron transistors from single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 262107	3.4	13
27	Fabrication of Aligned Carbon Nanotube Array Electrodes for Organic Electronic Devices. <i>Materials Express</i> , 2011 , 1, 80-85	1.3	12
26	Low pressure sulfurization and characterization of multilayer MoS ₂ for potential applications in supercapacitors. <i>Energy</i> , 2020 , 203, 117918	7.9	11
25	Electrical transport properties of peptide nanotubes coated with gold nanoparticles via peptide-induced biomineralization. <i>Nanotechnology</i> , 2011 , 22, 095202	3.4	11

24	The effect of carbon nanotube/organic semiconductor interfacial area on the performance of organic transistors. <i>Applied Physics Letters</i> , 2012 , 101, 233302	3.4	11
23	A general approach for high yield fabrication of CMOS-compatible all-semiconducting carbon nanotube field effect transistors. <i>Nanotechnology</i> , 2012 , 23, 125201	3.4	11
22	Enhanced electrochemical performance of solution-processed single-wall carbon nanotube reinforced polyvinyl alcohol nanocomposite synthesized via solution-cast method. <i>Nano Express</i> , 2020 , 1, 030013	2	10
21	Towards parallel fabrication of single electron transistors using carbon nanotubes. <i>Nanoscale</i> , 2015 , 7, 9786-92	7.7	9
20	The electronic transport properties of ternary Cd(1-x)Zn(x)S nanowire networks. <i>Nanotechnology</i> , 2009 , 20, 445204	3.4	9
19	Electrical properties tunability of large area MoS ₂ thin films by oxygen plasma treatment. <i>Applied Physics Letters</i> , 2020 , 116, 223102	3.4	8
18	Recent progress in parallel fabrication of individual single walled carbon nanotube devices using dielectrophoresis. <i>Materials Express</i> , 2014 , 4, 263-278	1.3	8
17	High yield assembly and electron transport investigation of semiconducting-rich local-gated single-walled carbon nanotube field effect transistors. <i>Nanotechnology</i> , 2011 , 22, 415201	3.4	8
16	CVD Growth of Monolayer MoS ₂ on Sapphire Substrates by using MoO ₃ Thin Films as a Precursor for Co-Evaporation. <i>MRS Advances</i> , 2019 , 4, 587-592	0.7	6
15	Temperature dependent charge transport in poly(3-hexylthiophene)-block polystyrene copolymer field-effect transistor. <i>Synthetic Metals</i> , 2012 , 162, 1531-1536	3.6	6
14	Negative differential resistance in ZnO coated peptide nanotube. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 305-310	2.6	5
13	Dielectrophoretic assembly of single gold nanoparticle into nanogap electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3427-33	1.3	5
12	Lower activation energy in organic field effect transistors with carbon nanotube contacts. <i>Solid-State Electronics</i> , 2014 , 99, 55-58	1.7	4
11	Huge volume expansion and structural transformation of carbon nanotube aligned arrays during electrical breakdown in vacuum. <i>Carbon</i> , 2012 , 50, 1635-1643	10.4	4
10	Charge Transfer Doping of 2D PdSe ₂ Thin Film and Its Application in Fabrication of Heterostructures. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001057	6.4	3
9	Tailoring the Potential Landscape and Electrical Properties of 2D MoS ₂ using Gold Nanostructures of Different Coverage Density. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6461-6466	3.8	2
8	Elucidation of the growth mechanism of MoS ₂ during the CVD process. <i>MRS Advances</i> , 2019 , 4, 581-586	0.7	2
7	Comparative study of organic transistors with different graphene electrodes fabricated using a simple patterning method. <i>Applied Physics Letters</i> , 2017 , 111, 233303	3.4	1

6	Synthesis of highly dense MoO/MoS core-shell nanoparticles via chemical vapor deposition. <i>Nanotechnology</i> , 2021 , 32, 055605	3.4	1
5	Rapid Degradation of the Electrical Properties of 2D MoS Thin Films under Long-Term Ambient Exposure. <i>ACS Omega</i> , 2021 , 6, 24075-24081	3.9	1
4	Low pressure CVD growth of 2D PdSe ₂ thin film and its application in PdSe ₂ -MoSe ₂ vertical heterostructure. <i>2D Materials</i> , 2022 , 9, 025025	5.9	0
3	Can Metals Other than Au be Used for Large Area Exfoliation of MoS ₂ Monolayers?. <i>Advanced Materials Interfaces</i> , 2200106	4.6	0
2	Correlated KPFM and TERS imaging to elucidate defect-induced inhomogeneities in oxygen plasma treated 2D MoS ₂ nanosheets. <i>Journal of Applied Physics</i> , 2022 , 131, 164303	2.5	0
1	High photoresponsivity and light-induced carrier conversion in RGO/TSCuPc hybrid phototransistors. <i>Journal of Materials Research</i> , 2018 , 33, 3999-4006	2.5	