

Saiful I Khondaker

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7819115/saiful-i-khondaker-publications-by-year.pdf>

Version: 2024-04-26

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.

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	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
76	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
75	Synthesis of highly dense MoO/MoS core-shell nanoparticles via chemical vapor deposition. <i>Nanotechnology</i> , 2021 , 32, 055605	3.4	1
74	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
73	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
72	Low pressure sulfurization and characterization of multilayer MoS ₂ for potential applications in supercapacitors. <i>Energy</i> , 2020 , 203, 117918	7.9	11
71	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
70	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
69	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
68	Scalable lateral heterojunction by chemical doping of 2D TMD thin films. <i>Scientific Reports</i> , 2020 , 10, 12970	4.9	14
67	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
66	Elucidation of the growth mechanism of MoS ₂ during the CVD process. <i>MRS Advances</i> , 2019 , 4, 581-586	0.7	2
65	Synthesis and Characterization of Reduced Graphene Oxide and Their Application in Dye-Sensitized Solar Cells. <i>ChemEngineering</i> , 2019 , 3, 7	2.6	17
64	High photoresponsivity and light-induced carrier conversion in RGO/TSCuPc hybrid phototransistors. <i>Journal of Materials Research</i> , 2018 , 33, 3999-4006	2.5	
63	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
62	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
61	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

60	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
59	Two-dimensional lateral heterojunction through bandgap engineering of MoS2 via oxygen plasma. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 364002	1.8	40
58	Centimeter Scale Patterned Growth of Vertically Stacked Few Layer Only 2D MoS2/WS2 van der Waals Heterostructure. <i>Scientific Reports</i> , 2016 , 6, 25456	4.9	99
57	Bandgap Engineering of MoS2 Flakes via Oxygen Plasma: A Layer Dependent Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13801-13806	3.8	37
56	Towards parallel fabrication of single electron transistors using carbon nanotubes. <i>Nanoscale</i> , 2015 , 7, 9786-92	7.7	9
55	Photoluminescence quenching in gold - MoS2 hybrid nanoflakes. <i>Scientific Reports</i> , 2014 , 4, 5575	4.9	159
54	Tuning the electrical property via defect engineering of single layer MoS2 by oxygen plasma. <i>Nanoscale</i> , 2014 , 6, 10033-9	7.7	160
53	Photoluminescence Quenching in Single-Layer MoS2 via Oxygen Plasma Treatment. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21258-21263	3.8	197
52	Lower activation energy in organic field effect transistors with carbon nanotube contacts. <i>Solid-State Electronics</i> , 2014 , 99, 55-58	1.7	4
51	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
50	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
49	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
48	Negative differential resistance in ZnO coated peptide nanotube. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 305-310	2.6	5
47	Structural Evolution of Reduced Graphene Oxide of Varying Carbon sp2 Fractions Investigated via Coulomb Blockade Transport. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26776-26782	3.8	28
46	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
45	Thermionic emission and tunneling at carbon nanotube-organic semiconductor interface. <i>ACS Nano</i> , 2012 , 6, 4993-9	16.7	86
44	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
43	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

42	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
41	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
40	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
39	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
38	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
37	High-performance short channel organic transistors using densely aligned carbon nanotube array electrodes. <i>Applied Physics Letters</i> , 2012 , 100, 023301	3.4	15
36	Ultrahigh density alignment of carbon nanotube arrays by dielectrophoresis. <i>ACS Nano</i> , 2011 , 5, 1739-4616.7	16.7	158
35	Coulomb blockade and hopping conduction in graphene quantum dots array. <i>Physical Review B</i> , 2011 , 83,	3.3	63
34	Fabrication of Aligned Carbon Nanotube Array Electrodes for Organic Electronic Devices. <i>Materials Express</i> , 2011 , 1, 80-85	1.3	12
33	Electrical transport properties of peptide nanotubes coated with gold nanoparticles via peptide-induced biomineralization. <i>Nanotechnology</i> , 2011 , 22, 095202	3.4	11
32	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
31	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
30	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
29	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
28	Graphene based materials: Past, present and future. <i>Progress in Materials Science</i> , 2011 , 56, 1178-1271	42.2	2607
27	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
26	Correlated electrical breakdown in arrays of high density aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 98, 243121	3.4	20
25	Space charge limited conduction with exponential trap distribution in reduced graphene oxide sheets. <i>Applied Physics Letters</i> , 2010 , 97, 093105	3.4	127

24	Reduced Graphene Oxide/Copper Phthalocyanine Composite and Its Optoelectrical Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15129-15135	3.8	123
23	Evaluating defects in solution-processed carbon nanotube devices via low-temperature transport spectroscopy. <i>ACS Nano</i> , 2010 , 4, 2659-66	16.7	14
22	The fabrication of single-electron transistors using dielectrophoretic trapping of individual gold nanoparticles. <i>Nanotechnology</i> , 2010 , 21, 095204	3.4	46
21	High quality solution processed carbon nanotube transistors assembled by dielectrophoresis. <i>Applied Physics Letters</i> , 2010 , 96, 083110	3.4	50
20	Position dependent photodetector from large area reduced graphene oxide thin films. <i>Applied Physics Letters</i> , 2010 , 96, 163109	3.4	160
19	High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. <i>Nanotechnology</i> , 2010 , 21, 165202	3.4	108
18	Controlled electroplating and electromigration in nickel electrodes for nanogap formation. <i>Nanotechnology</i> , 2010 , 21, 445304	3.4	21
17	High performance organic phototransistor based on regioregular poly(3-hexylthiophene). <i>Nanotechnology</i> , 2010 , 21, 325201	3.4	97
16	Ultralight multiwalled carbon nanotube aerogel. <i>ACS Nano</i> , 2010 , 4, 7293-302	16.7	427
15	Near-infrared photoresponse in single-walled carbon nanotube/polymer composite films. <i>Carbon</i> , 2010 , 48, 1539-1544	10.4	19
14	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
13	Diffusion mediated photoconduction in multiwalled carbon nanotube films. <i>Journal of Applied Physics</i> , 2009 , 106, 074307	2.5	17
12	The electronic transport properties of ternary Cd(1-x)Zn(x)S nanowire networks. <i>Nanotechnology</i> , 2009 , 20, 445204	3.4	9
11	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
10	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
9	Local-gated single-walled carbon nanotube field effect transistors assembled by AC dielectrophoresis. <i>Nanotechnology</i> , 2008 , 19, 175202	3.4	52
8	Dielectrophoretic assembly of single gold nanoparticle into nanogap electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3427-33	1.3	5
7	Controlled fabrication of single electron transistors from single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 262107	3.4	13

6	Dispersion of Pristine Carbon Nanotubes Using Conjugated Block Copolymers. <i>Advanced Materials</i> , 2008 , 20, 2055-2060	24	215
5	Dispersion of carbon nanotubes and polymer nanocomposite fabrication using trifluoroacetic acid as a co-solvent. <i>Nanotechnology</i> , 2007 , 18, 415606	3-4	53
4	Sub 10 nm conjugated polymer transistors for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 539-544	8.5	20
3	Electron transport through single phenylene-ethynylene molecular junctions at low temperature. <i>Applied Physics Letters</i> , 2004 , 85, 645-647	3-4	57
2	Fabrication of nanometer-spaced electrodes using gold nanoparticles. <i>Applied Physics Letters</i> , 2002 , 81, 4613-4615	3-4	80
1	Can Metals Other than Au be Used for Large Area Exfoliation of MoS ₂ Monolayers?. <i>Advanced Materials Interfaces</i> , 2200106	4.6	0