

Arman Ahnood

List of Publications by Year in descending order

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49
papers

2,052
citations

567281

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233421

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g-index

53
all docs

53
docs citations

53
times ranked

3479
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Optical Assay System for Bilirubin Concentration Measurement in Whole Blood. IEEE Transactions on Biomedical Engineering, 2022, 69, 983-990.	4.2	8
2	Novel electrode architecture for subgaleal electroencephalography: a feasibility study. Sensors & Diagnostics, 2022, 1, 245-261.	3.8	2
3	A System-On-Chip Assay for Bilirubin Levels Measurement in Whole Blood Using Photodegradation Kinetics. , 2022, , .		1
4	Towards optical neuromodulation using nitrogen-doped ultrananocrystalline diamond photoelectrodes. Surfaces and Interfaces, 2022, 30, 101850.	3.0	3
5	Diamond Supercapacitors: Towards Durable, Safe, and Biocompatible Aqueous-Based Energy Storage. Frontiers in Chemistry, 2022, 10, .	3.6	8
6	Enhanced electrochemical capacitance of nitrogen-doped ultrananocrystalline diamond through oxygen treatment. Applied Surface Science, 2021, 543, 148768.	6.1	11
7	Single-Step Fabrication Method toward 3D Printing Composite Diamond-Titanium Interfaces for Neural Applications. ACS Applied Materials & Interfaces, 2021, 13, 31474-31484.	8.0	6
8	A System-on-Chip Assay for Bilirubin Levels Measurement in Whole Blood. , 2021, 10, .		1
9	In vivo feasibility of epiretinal stimulation using ultrananocrystalline diamond electrodes. Journal of Neural Engineering, 2020, 17, 045014.	3.5	4
10	Laser Driven Miniature Diamond Implant for Wireless Retinal Prostheses. Advanced Biology, 2020, 4, e2000055.	3.0	12
11	Miniature power and data transceiver based on multimodal operation of a single photovoltaic device. Engineering Research Express, 2020, 2, 015036.	1.6	6
12	Near-infrared excitation of nitrogen-doped ultrananocrystalline diamond photoelectrodes in saline solution. Diamond and Related Materials, 2020, 103, 107720.	3.9	12
13	A single sensor based multispectral imaging camera using a narrow spectral band color mosaic integrated on the monochrome CMOS image sensor. APL Photonics, 2020, 5, .	5.7	37
14	The role of CdCl ₂ treatments and annealing in the formation of sintered CdTe nanocrystal solar cells. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1199-1202.	2.1	9
15	Vertical Ge-Si Nanowires with Suspended Graphene Top Contacts as Dynamically Tunable Multispectral Photodetectors. ACS Photonics, 2019, 6, 735-742.	6.6	15
16	Feasibility of Nitrogen Doped Ultrananocrystalline Diamond Microelectrodes for Electrophysiological Recording From Neural Tissue. Frontiers in Bioengineering and Biotechnology, 2018, 6, 85.	4.1	8
17	Diamond Devices for High Acuity Prosthetic Vision. Advanced Biology, 2017, 1, e1600003.	3.0	35
18	Optimizing growth and post treatment of diamond for high capacitance neural interfaces. Biomaterials, 2016, 104, 32-42.	11.4	45

#	ARTICLE	IF	CITATIONS
19	Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. Carbon, 2016, 107, 180-189.	10.3	14
20	Transient photoresponse of nitrogen-doped ultrananocrystalline diamond electrodes in saline solution. Applied Physics Letters, 2016, 108, .	3.3	8
21	Development of a Magnetic Attachment Method for Bionic Eye Applications. Artificial Organs, 2016, 40, E12-24.	1.9	9
22	Minimally invasive endovascular stent-electrode array for high-fidelity, chronic recordings of cortical neural activity. Nature Biotechnology, 2016, 34, 320-327.	17.5	210
23	Diamond encapsulated photovoltaics for transdermal power delivery. Biosensors and Bioelectronics, 2016, 77, 589-597.	10.1	22
24	Orthogonal Thin Film Photovoltaics on Vertical Nanostructures. Nanoscale Research Letters, 2015, 10, 486.	5.7	5
25	Ultrananocrystalline diamond-CMOS device integration route for high acuity retinal prostheses. Biomedical Microdevices, 2015, 17, 9952.	2.8	23
26	Hermetic diamond capsules for biomedical implants enabled by gold active braze alloys. Biomaterials, 2015, 53, 464-474.	11.4	39
27	Periodic Nanopillar N-I-P Amorphous Si Photovoltaic Cells Using Carbon Nanotube Scaffolds. IEEE Nanotechnology Magazine, 2014, 13, 997-1004.	2.0	3
28	Fourier spectrum based extraction of an equivalent trap state density in indium gallium zinc oxide transistors. Applied Physics Letters, 2014, 104, 203505.	3.3	1
29	Top Down Scale-Up of Semiconducting Nanostructures for Large Area Electronics. Journal of Display Technology, 2014, 10, 660-665.	1.2	2
30	Fabrication of planarised conductively patterned diamond for bio-applications. Materials Science and Engineering C, 2014, 43, 135-144.	7.3	23
31	An all-diamond, hermetic electrical feedthrough array for a retinal prosthesis. Biomaterials, 2014, 35, 908-915.	11.4	89
32	Recyclable, Flexible, Low-Power Oxide Electronics. Advanced Functional Materials, 2013, 23, 2153-2161.	14.9	124
33	Vertical CNT-Si Photodiode Array. Nano Letters, 2013, 13, 4131-4136.	9.1	11
34	Amorphous Silicon Thin Film Transistor Biosensing System. Materials Research Society Symposia Proceedings, 2013, 1530, 1.	0.1	0
35	Thin Film Coil Design Considerations for Wireless Power Transfer in Flat Panel Display. Materials Research Society Symposia Proceedings, 2012, 1388, 1.	0.1	1
36	Electrical Characterization of Electrochemically Grown ZnO Nanorods using STM. Materials Research Society Symposia Proceedings, 2012, 1391, 71.	0.1	4

#	ARTICLE	IF	CITATIONS
37	Characterization of microcrystalline I-layer for solar cells prepared in low temperature - plastic compatible process. , 2012, , .		0
38	Flat-Panel Compatible Photovoltaic Energy Harvesting System. Journal of Display Technology, 2012, 8, 204-211.	1.2	10
39	Analytical Field-Effect Method for Extraction of Subgap States in Thin-Film Transistors. IEEE Electron Device Letters, 2012, 33, 1006-1008.	3.9	28
40	Flexible Electronics: The Next Ubiquitous Platform. Proceedings of the IEEE, 2012, 100, 1486-1517.	21.3	822
41	Pulsed-radio frequency plasma enhanced chemical vapour deposition of low temperature silicon nitride for thin film transistors. Thin Solid Films, 2012, 520, 4831-4834.	1.8	11
42	Complementary Metal Oxide Semiconductor Technology With and On Paper. Advanced Materials, 2011, 23, 4491-4496.	21.0	235
43	Thin Film Power Harvesting System for Displays. Materials Research Society Symposia Proceedings, 2011, 1321, 413.	0.1	1
44	Photo-Induced Instability of Nanocrystalline Silicon TFTs. Journal of Display Technology, 2010, 6, 589-591.	1.2	9
45	Effect of threshold voltage instability on field effect mobility in thin film transistors deduced from constant current measurements. Applied Physics Letters, 2009, 95, 063506.	3.3	3
46	Light-induced metastability in thin nanocrystalline silicon films. Philosophical Magazine, 2009, 89, 2531-2539.	1.6	4
47	Arrays of Parallel Connected Coaxial Multiwallâ€Carbonâ€Nanotubeâ€Amorphousâ€Silicon Solar Cells. Advanced Materials, 2009, 21, 3919-3923.	21.0	95
48	Effect of VT shift and contact resistance on mobility of TFTs. , 2009, , .		0
49	Non-ohmic contact resistance and field-effect mobility in nanocrystalline silicon thin film transistors. Applied Physics Letters, 2008, 93, 163503.	3.3	18