

# Farhad A Boroumand

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5842610/publications.pdf>

Version: 2024-02-01

46  
papers

750  
citations

686830

13  
h-index

525886

27  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Conjugated-Polymer Light-Emitting Diodes. Nano Letters, 2005, 5, 67-71.	4.5	140
2	Direct x-ray detection with conjugated polymer devices. Applied Physics Letters, 2007, 91, .	1.5	67
3	Comparison study of transparent RF-sputtered ITO/AZO and ITO/ZnO bilayers for near UV-OLED applications. Applied Surface Science, 2017, 392, 549-556.	3.1	57
4	Influence of substrates on the structural and morphological properties of RF sputtered ITO thin films for photovoltaic application. Thin Solid Films, 2009, 517, 2324-2327.	0.8	51
5	Fabrication and Characterization of an Ammonia Gas Sensor Based on PEDOT-PSS With N-Doped Graphene Quantum Dots Dopant. IEEE Sensors Journal, 2016, 16, 6149-6154.	2.4	47
6	Fabrication of a Room Temperature Ammonia Gas Sensor Based on Polyaniline With N-Doped Graphene Quantum Dots. IEEE Sensors Journal, 2018, 18, 2245-2252.	2.4	45
7	Characterizing Joule Heating in Polymer Light-Emitting Diodes Using a Scanning Thermal Microscope. Advanced Materials, 2004, 16, 252-256.	11.1	43
8	Large area Ag <sup>+</sup> /TiO <sub>2</sub> UV radiation sensor fabricated on a thermally oxidized titanium chip. Sensors and Actuators A: Physical, 2012, 173, 116-121.	2.0	43
9	Effect of seed layers on low-temperature, chemical bath deposited ZnO nanorods-based near UV-OLED performance. Ceramics International, 2018, 44, 4937-4945.	2.3	29
10	Imaging Joule heating in a conjugated-polymer light-emitting diode using a scanning thermal microscope. Applied Physics Letters, 2004, 84, 4890-4892.	1.5	22
11	Electrically conductive polyaniline as hole-injection layer for MEH-PPV:BT based polymer light emitting diodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 197, 25-30.	1.7	21
12	Improved performance of photoconductive gain hybrid UV detector by trap state engineering of ZnO nanoparticles. Journal of Applied Physics, 2017, 122, .	1.1	20
13	Comments on "Epitaxially grown GaN thin-film SAW filter with high velocity and low insertion loss". IEEE Transactions on Electron Devices, 2006, 53, 173-176.	1.6	17
14	Quality enhancement of AZO thin films at various thicknesses by introducing ITO buffer layer. Journal of Materials Science: Materials in Electronics, 2017, 28, 9328-9337.	1.1	13
15	Experimental and density functional theory computational studies on highly sensitive ethanol gas sensor based on Au-decorated ZnO nanoparticles. Thin Solid Films, 2022, 741, 139014.	0.8	12
16	Flexible PET/ITO electrode array for implantable biomedical applications. , 2011, 2011, 2878-81.		11
17	Selective enhancement of intra-chain charge transport to improve ammonia sensing performance in polyaniline layers. Electronic Materials Letters, 2016, 12, 107-112.	1.0	11
18	IBIC characterization of charge transport in CdTe:Cl. Semiconductors, 2007, 41, 395-401.	0.2	10

#	ARTICLE	IF	CITATIONS
19	Low driving voltage in polymer light-emitting diodes with CdS nanoparticles as an electron transport layer. <i>Journal of Nanophotonics</i> , 2015, 9, 093081.	0.4	10
20	High gain observed in X-ray induced currents in synthetic single crystal diamonds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3011-3016.	0.8	9
21	Polyfluorene copolymer /Al Schottky junction for UV-A photodetector with relatively high stability and photocurrent density. <i>Optics Communications</i> , 2020, 458, 124809.	1.0	9
22	Optoelectronic characteristics of MEH-PPV + BT blend thin films in polymer light emitting diodes. <i>Semiconductor Science and Technology</i> , 2015, 30, 065016.	1.0	8
23	Quantitative characterization of carrier injection across metal-organic interfaces using Bardeen theory. <i>Organic Electronics</i> , 2012, 13, 905-913.	1.4	7
24	Low driving voltage characteristics of polyaniline-silica nanocomposites as hole-injection material of organic electroluminescent devices. <i>Materials Research Bulletin</i> , 2015, 72, 29-34.	2.7	7
25	Alternative model for injection-limited current into organic solids. <i>Journal of Photonics for Energy</i> , 2015, 5, 057610.	0.8	6
26	Wireless, miniaturized, semi-implantable electrocorticography microsystem validated in vivo. <i>Scientific Reports</i> , 2020, 10, 21261.	1.6	5
27	Synthesis of Carboxylated Graphene Oxide-CdS Nanocomposite and Its Application on Photovoltaic Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 684-689.	2.0	4
28	Complex Dielectric Constant Extraction of Substrate Materials Using Cross-Resonator Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-9.	2.4	4
29	Use of a New Blue Emitter in Color-Stable, Flexible, Polymeric White Light-Emitting Diodes with a Simple Structure. <i>Journal of Electronic Materials</i> , 2015, 44, 2745-2753.	1.0	3
30	Bulk-heterojunction polymer solar cells with polyaniline-silica nanocomposites as an efficient hole-collecting layer. <i>Journal of Nanophotonics</i> , 2016, 10, 016011.	0.4	3
31	Electrical and Environmental Degradation Causes and Effects in Polyfluorene-Based Polymer Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , 2020, 49, 3645-3651.	1.0	3
32	Analytical transmission line model for complex dielectric constant measurement of thin substrates using T-resonator method. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 2027-2034.	0.7	3
33	Observations of backgate impedance dispersion in GaAs isolation structures. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1850-1858.	1.6	2
34	Fabrication and Characterization of Hybrid Photovoltaic Devices Based On N-Type GaAs and Polymer Composites. , 0, , .		2
35	Very slow charge trapping and release in ion implanted GaAs [MESFETs]. <i>IEEE Transactions on Electron Devices</i> , 2000, 47, 512-516.	1.6	1
36	A comprehensive model of backgate impedance dispersions in GaAs isolation structures. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1859-1869.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Environmental UV-A Level Monitoring Using an Ag-TiO <sub>2</sub> Schottky Diode. Key Engineering Materials, 0, 543, 113-116.	0.4	1
38	Atomic and electronic structures of ZnO nanowires and nanotubes: A first principles study. , 2016, , .		1
39	Design, fabrication, and test of flexible thin-film microelectrode arrays for neural interfaces. , 2017, , .		1
40	Comparison of Three Solar Cells Based on DSSC, Perovskite and Polymer Structures. , 0, , .		1
41	Silver-Rutile UV Sensor Fabricated on Thermally Oxidized Titanium Foil <sup></sup>. Key Engineering Materials, 2011, 495, 18-22.	0.4	0
42	Fabrication and simulation of polyfluorene-based organic light-emitting diodes. , 2012, , .		0
43	Sensitivity analysis of X-ray detectors based on BFE and MEH-PPV organic sensor. , 2013, , .		0
44	Improving the electrical properties of polymer solar cells using SWCNT. , 2014, , .		0
45	A Novel Material for Chemical Sensor Applications: Oxidized MEH-PPV. Key Engineering Materials, 0, 644, 12-15.	0.4	0
46	Design, Implementation, and Test of an Adiabatic Stimulation Back-End for Implantable Optical Stimulation Microsystems. , 2018, , .		0