

Natalie O V Plank

List of Publications by Year in descending order

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42
papers

1,253
citations

361413

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361022

35
g-index

42
all docs

42
docs citations

42
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of encapsulated ZnO nanowires provide low impedance alternatives for microelectrodes. PLoS ONE, 2022, 17, e0270164.	2.5	1
2	Investigation of Fractal Carbon Nanotube Networks for Biophilic Neural Sensing Applications. Nanomaterials, 2021, 11, 636.	4.1	7
3	Comparison of Duplex and Quadruplex Folding Structure Adenosine Aptamers for Carbon Nanotube Field Effect Transistor Aptasensors. Nanomaterials, 2021, 11, 2280.	4.1	7
4	Insect odorant receptor-based biosensors: Current status and prospects. Biotechnology Advances, 2021, 53, 107840.	11.7	19
5	Large Photogain in Multicolor Nanocrystal Photodetector Arrays Enabling Room-Temperature Detection of Targets Above 100 Å°C. ACS Photonics, 2020, 7, 3078-3085.	6.6	5
6	Evaluating Insect Odorant Receptor Display Formats for Biosensing Using Graphene Field Effect Transistors. ACS Applied Electronic Materials, 2020, 2, 3610-3617.	4.3	18
7	Directed self-assembly of peptide-diketopyrrolopyrrole conjugates a platform for bio-organic thin film preparation. Soft Matter, 2020, 16, 6563-6571.	2.7	10
8	Biosensing with Insect Odorant Receptor Nanodiscs and Carbon Nanotube Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 9530-9538.	8.0	62
9	Improved uniaxial dielectric properties in aligned diisopropylammonium bromide (DIPAB) doped poly(vinylidene difluoride) (PVDF) nanofibers. RSC Advances, 2019, 9, 31233-31240.	3.6	5
10	Metallic-semiconducting junctions create sensing hot-spots in carbon nanotube FET aptasensors near percolation. Biosensors and Bioelectronics, 2019, 130, 408-413.	10.1	24
11	Selective growth of ZnO nanowires with varied aspect ratios on an individual substrate. Materials Research Express, 2019, 6, 015905.	1.6	9
12	Comparison of seed layers for smooth, low loss silver films used in ultraviolet-visible plasmonic imaging devices. Thin Solid Films, 2018, 656, 68-74.	1.8	12
13	Data on liquid gated CNT network FETs on flexible substrates. Data in Brief, 2018, 21, 276-283.	1.0	8
14	Realizing field-dependent conduction in ZnO nanowires without annealing. Nanotechnology, 2017, 28, 124003.	2.6	1
15	Facile fabrication of carbon nanotube network thin film transistors for device platforms. International Journal of Nanotechnology, 2017, 14, 505.	0.2	7
16	The influence of polyethylenimine molecular weight on hydrothermally-synthesised ZnO nanowire morphology. International Journal of Nanotechnology, 2017, 14, 47.	0.2	4
17	Electrostatic gating in carbon nanotube aptasensors. Nanoscale, 2016, 8, 13659-13668.	5.6	37
18	Carbon nanotube field effect transistor aptasensors for estrogen detection in liquids. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	1.2	20

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19	Functional Organic Semiconductors Assembled via Natural Aggregating Peptides. <i>Advanced Functional Materials</i> , 2015, 25, 5640-5649.	14.9	56
20	Ohmic contacts of Au and Ag metals to n-type GdN thin films. <i>AIMS Materials Science</i> , 2015, 2, 79-85.	1.4	1
21	Organic bioelectronics: general discussion. <i>Faraday Discussions</i> , 2014, 174, 413-428.	3.2	5
22	Rare-earth mononitrides. <i>Progress in Materials Science</i> , 2013, 58, 1316-1360.	32.8	124
23	Facile synthesis of poly(methylsilsesquioxane) and MgO nanoparticle composite dielectrics. <i>Journal of Materials Research</i> , 2013, 28, 1490-1497.	2.6	3
24	Review of hydrothermal ZnO nanowires: Toward FET applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 06F101.	1.2	26
25	The influence of nitrogen vacancies on the magnetic behaviour of rare-earth nitrides. <i>Physica B: Condensed Matter</i> , 2012, 407, 2954-2956.	2.7	7
26	Epitaxial growth and properties of GdN, EuN and SmN thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 605-608.	0.8	21
27	Epitaxial samarium disilicide films on silicon (001) substrates: growth, structural and electrical properties. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 135404.	2.8	5
28	Enhanced Curie temperature in N-deficient GdN. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	38
29	Epitaxial growth of GdN on silicon substrate using an AlN buffer layer. <i>Journal of Crystal Growth</i> , 2010, 312, 3583-3587.	1.5	50
30	Epitaxial Growth and Electrical Properties of Thick SmSi ₂ Layers on (001) Silicon. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 025505.	1.5	5
31	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Core-shell Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18515-18522.	3.1	85
32	Direct measurement of charge transport through helical poly(ethyl propiolate) nanorods wired into gaps in single walled carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 105201.	2.6	12
33	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. <i>Thin Solid Films</i> , 2008, 516, 7218-7222.	1.8	45
34	A simple low temperature synthesis route for ZnO/MgO core-shell nanowires. <i>Nanotechnology</i> , 2008, 19, 465603.	2.6	111
35	An investigation into the growth conditions and defect states of laminar ZnO nanostructures. <i>Journal of Materials Chemistry</i> , 2008, 18, 5259.	6.7	22
36	Electrodeposition of platinum metal on TiN thin films. <i>Electrochemistry Communications</i> , 2005, 7, 125-129.	4.7	37

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37	Electronic Properties of n-Type Carbon Nanotubes Prepared by CF ₄ Plasma Fluorination and Amino Functionalization. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22096-22101.	2.6	55
38	Dry etching of SiC in inductively coupled Cl ₂ /Ar plasma. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1809-1814.	2.8	49
39	Thiolation of single-wall carbon nanotubes and their self-assembly. <i>Applied Physics Letters</i> , 2004, 85, 3229-3231.	3.3	35
40	The electrical characteristics of 4H-SiC schottky diodes after inductively coupled plasma etching. <i>Journal of Electronic Materials</i> , 2003, 32, 964-971.	2.2	7
41	Fluorination of carbon nanotubes in CF ₄ plasma. <i>Applied Physics Letters</i> , 2003, 83, 2426-2428.	3.3	141
42	The etching of silicon carbide in inductively coupled SF ₆ /O ₂ plasma. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 482-487.	2.8	57