

Natalie O V Plank

List of Publications by Year in descending order

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42
papers

1,253
citations

361413

20
h-index

361022

35
g-index

42
all docs

42
docs citations

42
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorination of carbon nanotubes in CF ₄ plasma. Applied Physics Letters, 2003, 83, 2426-2428.	3.3	141
2	Rare-earth mononitrides. Progress in Materials Science, 2013, 58, 1316-1360.	32.8	124
3	A simple low temperature synthesis route for ZnO@MgO core-shell nanowires. Nanotechnology, 2008, 19, 465603.	2.6	111
4	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Core-shell Nanostructures. Journal of Physical Chemistry C, 2009, 113, 18515-18522.	3.1	85
5	Biosensing with Insect Odorant Receptor Nanodiscs and Carbon Nanotube Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 9530-9538.	8.0	62
6	The etching of silicon carbide in inductively coupled SF ₆ /O ₂ plasma. Journal Physics D: Applied Physics, 2003, 36, 482-487.	2.8	57
7	Functional Organic Semiconductors Assembled via Natural Aggregating Peptides. Advanced Functional Materials, 2015, 25, 5640-5649.	14.9	56
8	Electronic Properties of n-Type Carbon Nanotubes Prepared by CF ₄ Plasma Fluorination and Amino Functionalization. Journal of Physical Chemistry B, 2005, 109, 22096-22101.	2.6	55
9	Epitaxial growth of GdN on silicon substrate using an AlN buffer layer. Journal of Crystal Growth, 2010, 312, 3583-3587.	1.5	50
10	Dry etching of SiC in inductively coupled Cl ₂ /Ar plasma. Journal Physics D: Applied Physics, 2004, 37, 1809-1814.	2.8	49
11	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. Thin Solid Films, 2008, 516, 7218-7222.	1.8	45
12	Enhanced Curie temperature in N-deficient GdN. Applied Physics Letters, 2011, 98, .	3.3	38
13	Electrodeposition of platinum metal on TiN thin films. Electrochemistry Communications, 2005, 7, 125-129.	4.7	37
14	Electrostatic gating in carbon nanotube aptasensors. Nanoscale, 2016, 8, 13659-13668.	5.6	37
15	Thiolation of single-wall carbon nanotubes and their self-assembly. Applied Physics Letters, 2004, 85, 3229-3231.	3.3	35
16	Review of hydrothermal ZnO nanowires: Toward FET applications. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 06F101.	1.2	26
17	Metallic-semiconducting junctions create sensing hot-spots in carbon nanotube FET aptasensors near percolation. Biosensors and Bioelectronics, 2019, 130, 408-413.	10.1	24
18	An investigation into the growth conditions and defect states of laminar ZnO nanostructures. Journal of Materials Chemistry, 2008, 18, 5259.	6.7	22

#	ARTICLE	IF	CITATIONS
19	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
20	Carbon nanotube field effect transistor aptasensors for estrogen detection in liquids. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	1.2	20
21	Insect odorant receptor-based biosensors: Current status and prospects. <i>Biotechnology Advances</i> , 2021, 53, 107840.	11.7	19
22	Evaluating Insect Odorant Receptor Display Formats for Biosensing Using Graphene Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3610-3617.	4.3	18
23	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
24	Comparison of seed layers for smooth, low loss silver films used in ultraviolet-visible plasmonic imaging devices. <i>Thin Solid Films</i> , 2018, 656, 68-74.	1.8	12
25	Directed self-assembly of peptide-diketopyrrolopyrrole conjugates a platform for bio-organic thin film preparation. <i>Soft Matter</i> , 2020, 16, 6563-6571.	2.7	10
26	Selective growth of ZnO nanowires with varied aspect ratios on an individual substrate. <i>Materials Research Express</i> , 2019, 6, 015905.	1.6	9
27	Data on liquid gated CNT network FETs on flexible substrates. <i>Data in Brief</i> , 2018, 21, 276-283.	1.0	8
28	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
29	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
30	Facile fabrication of carbon nanotube network thin film transistors for device platforms. <i>International Journal of Nanotechnology</i> , 2017, 14, 505.	0.2	7
31	Investigation of Fractal Carbon Nanotube Networks for Biophilic Neural Sensing Applications. <i>Nanomaterials</i> , 2021, 11, 636.	4.1	7
32	Comparison of Duplex and Quadruplex Folding Structure Adenosine Aptamers for Carbon Nanotube Field Effect Transistor Aptasensors. <i>Nanomaterials</i> , 2021, 11, 2280.	4.1	7
33	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
34	Epitaxial samarium disilicide films on silicon (O ₂) substrates: growth, structural and electrical properties. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 135404.	2.8	5
35	Organic bioelectronics: general discussion. <i>Faraday Discussions</i> , 2014, 174, 413-428.	3.2	5
36	Improved uniaxial dielectric properties in aligned diisopropylammonium bromide (DIPAB) doped poly(vinylidene difluoride) (PVDF) nanofibers. <i>RSC Advances</i> , 2019, 9, 31233-31240.	3.6	5

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37	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
38	The influence of polyethylenimine molecular weight on hydrothermally-synthesised ZnO nanowire morphology. International Journal of Nanotechnology, 2017, 14, 47.	0.2	4
39	Facile synthesis of poly(methylsilsesquioxane) and MgO nanoparticle composite dielectrics. Journal of Materials Research, 2013, 28, 1490-1497.	2.6	3
40	Realizing field-dependent conduction in ZnO nanowires without annealing. Nanotechnology, 2017, 28, 124003.	2.6	1
41	Ohmic contacts of Au and Ag metals to n-type GdN thin films. AIMS Materials Science, 2015, 2, 79-85.	1.4	1
42	Synthesis of encapsulated ZnO nanowires provide low impedance alternatives for microelectrodes. PLoS ONE, 2022, 17, e0270164.	2.5	1