

# Peter Niraj Nirmalraj

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30  
papers

8,057  
citations

15  
h-index

34  
g-index

34  
ext. papers

8,740  
ext. citations

12.4  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
30	Spatial organization of protein aggregates on red blood cells as physical biomarkers of Alzheimer's disease pathology. <i>Science Advances</i> , <b>2021</b> , 7, eabj2137	14.3	3
29	Complete aggregation pathway of amyloid $\beta$ (1-40) and (1-42) resolved on an atomically clean interface. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6014	14.3	28
28	Graphene wrinkle effects on molecular resonance states. <i>Npj 2D Materials and Applications</i> , <b>2018</b> , 2,	8.8	7
27	Subcellular Imaging of Liquid Silicone Coated-Intestinal Epithelial Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 10763	4.9	3
26	Polymer-Nanocarbon Topological and Electronic Interface. <i>Langmuir</i> , <b>2018</b> , 34, 6225-6230	4	2
25	Formation of Single Nanopores with Diameters of 20-50 nm in Silicon Nitride Membranes Using Laser-Assisted Controlled Breakdown. <i>ACS Nano</i> , <b>2018</b> , 12, 11458-11470	16.7	38
24	Motion of Fullerenes around Topological Defects on Metals: Implications for the Progress of Molecular Scale Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7897-7902	9.5	3
23	Heat transport through atomic contacts. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 430-433	28.7	71
22	On-Chip Chemical Self-Assembly of Semiconducting Single-Walled Carbon Nanotubes (SWNTs): Toward Robust and Scale Invariant SWNTs Transistors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606757	24	30
21	A robust molecular probe for femtomolar-scale analytics in liquids. <i>Nature Communications</i> , <b>2016</b> , 7, 12403	17.4	3
20	Fingerprinting Electronic Molecular Complexes in Liquid. <i>Scientific Reports</i> , <b>2016</b> , 6, 19009	4.9	8
19	Formation Mechanism of Metal-Molecule-Metal Junctions: Molecule-Assisted Migration on Metal Defects. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19438-19451	3.8	10
18	Fabrication and analysis of vertical p-type InAs-Si nanowire Tunnel FETs <b>2015</b> ,		6
17	Capturing the embryonic stages of self-assembly - design rules for molecular computation. <i>Scientific Reports</i> , <b>2015</b> , 5, 10116	4.9	14
16	Nanoelectrical analysis of single molecules and atomic-scale materials at the solid/liquid interface. <i>Nature Materials</i> , <b>2014</b> , 13, 947-53	27	27
15	At the deep end. <i>Materials Today</i> , <b>2014</b> , 17, 203-204	21.8	
14	Nanoscale origin of defects at metal/molecule engineered interfaces. <i>Langmuir</i> , <b>2013</b> , 29, 1340-5	4	10

13	Manipulating connectivity and electrical conductivity in metallic nanowire networks. <i>Nano Letters</i> , <b>2012</b> , 12, 5966-71	11.5	65
12	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5422-5428	3.8	390
11	Nanoscale mapping of electrical resistivity and connectivity in graphene strips and networks. <i>Nano Letters</i> , <b>2011</b> , 11, 16-22	11.5	136
10	Selective tuning and optimization of the contacts to metallic and semiconducting single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2010</b> , 4, 3801-6	16.7	9
9	The spatial uniformity and electromechanical stability of transparent, conductive films of single walled nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 2466-2473	10.4	155
8	Silver Nanowire Networks as Flexible, Transparent, Conducting Films: Extremely High DC to Optical Conductivity Ratios. <i>ACS Nano</i> , <b>2009</b> , 3, 1767-74	16.7	1343
7	Electrical connectivity in single-walled carbon nanotube networks. <i>Nano Letters</i> , <b>2009</b> , 9, 3890-5	11.5	377
6	Transparent, flexible, and highly conductive thin films based on polymer-nanotube composites. <i>ACS Nano</i> , <b>2009</b> , 3, 714-20	16.7	256
5	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 563-8	28.7	4715
4	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , <b>2008</b> , 20, 1876-1881	24	299
3	Bonding of metal-free phthalocyanine to TiO <sub>2</sub> (1 1 0) single crystal. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 3602-3613	6.4	34
2	Self-ordering of metal-free phthalocyanine on InAs(100) and InSb(100). <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 10707-10723	1.8	14
1	Conductive Hybrid Cu-HHTP-TCNQ Metal-Organic Frameworks for Chemiresistive Sensing. <i>Advanced Electronic Materials</i> , <b>2010</b> , 2100871	6.4	0