Peter Niraj Nirmalraj

List of Publications by Citations

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	High-yield production of graphene by liquid-phase exfoliation of graphite. *Nature Nanotechnology*, **2008**, 3, 563-8	28.7	4715
29	Silver Nanowire Networks as Flexible, Transparent, Conducting Films: Extremely High DC to Optical Conductivity Ratios. *ACS Nano*, **2009**, 3, 1767-74	16.7	1343
28	Graphene Dispersion and Exfoliation in Low Boiling Point Solvents. *Journal of Physical Chemistry C*, **2011**, 115, 5422-5428	3.8	390
27	Electrical connectivity in single-walled carbon nanotube networks. *Nano Letters*, **2009**, 9, 3890-5	11.5	377
26	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. *Advanced Materials*, **2008**, 20, 1876-1881	24	299
25	Transparent, flexible, and highly conductive thin films based on polymer-nanotube composites. *ACS Nano*, **2009**, 3, 714-20	16.7	256
24	The spatial uniformity and electromechanical stability of transparent, conductive films of single walled nanotubes. *Carbon*, **2009**, 47, 2466-2473	10.4	155
23	Nanoscale mapping of electrical resistivity and connectivity in graphene strips and networks. *Nano Letters*, **2011**, 11, 16-22	11.5	136
22	Heat transport through atomic contacts. *Nature Nanotechnology*, **2017**, 12, 430-433	28.7	71
21	Manipulating connectivity and electrical conductivity in metallic nanowire networks. *Nano Letters*, **2012**, 12, 5966-71	11.5	65
20	Formation of Single Nanopores with Diameters of 20-50 nm in Silicon Nitride Membranes Using Laser-Assisted Controlled Breakdown. *ACS Nano*, **2018**, 12, 11458-11470	16.7	38
19	Bonding of metal-free phthalocyanine to TiO2(1 1 0) single crystal. *Solar Energy Materials and Solar Cells*, **2006**, 90, 3602-3613	6.4	34
18	On-Chip Chemical Self-Assembly of Semiconducting Single-Walled Carbon Nanotubes (SWNTs): Toward Robust and Scale Invariant SWNTs Transistors. *Advanced Materials*, **2017**, 29, 1606757	24	30
17	Complete aggregation pathway of amyloid □(1-40) and (1-42) resolved on an atomically clean interface. *Science Advances*, **2020**, 6, eaaz6014	14.3	28
16	Nanoelectrical analysis of single molecules and atomic-scale materials at the solid/liquid interface. *Nature Materials*, **2014**, 13, 947-53	27	27
15	Capturing the embryonic stages of self-assembly - design rules for molecular computation. *Scientific Reports*, **2015**, 5, 10116	4.9	14
14	Self-ordering of metal-free phthalocyanine on InAs(100) and InSb(100). *Journal of Physics Condensed Matter*, **2006**, 18, 10707-10723	1.8	14

List of Publications

13	Formation Mechanism of Metal–Molecule–Metal Junctions: Molecule-Assisted Migration on Metal Defects. *Journal of Physical Chemistry C*, **2015**, 119, 19438-19451	3.8	10
12	Nanoscale origin of defects at metal/molecule engineered interfaces. *Langmuir*, **2013**, 29, 1340-5	4	10
11	Selective tuning and optimization of the contacts to metallic and semiconducting single-walled carbon nanotubes. *ACS Nano*, **2010**, 4, 3801-6	16.7	9
10	Fingerprinting Electronic Molecular Complexes in Liquid. *Scientific Reports*, **2016**, 6, 19009	4.9	8
9	Graphene wrinkle effects on molecular resonance states. *Npj 2D Materials and Applications*, **2018**, 2,	8.8	7
8	Fabrication and analysis of vertical p-type InAs-Si nanowire Tunnel FETs **2015**,		6
7	Motion of Fullerenes around Topological Defects on Metals: Implications for the Progress of Molecular Scale Devices. *ACS Applied Materials & Interfaces*, **2017**, 9, 7897-7902	9.5	3
6	A robust molecular probe for Ångstrom-scale analytics in liquids. *Nature Communications*, **2016**, 7, 12403	17.4	3
5	Subcellular Imaging of Liquid Silicone Coated-Intestinal Epithelial Cells. *Scientific Reports*, **2018**, 8, 10763	4.9	3
4	Spatial organization of protein aggregates on red blood cells as physical biomarkers of Alzheimer's disease pathology. *Science Advances*, **2021**, 7, eabj2137	14.3	3
3	Polymer-Nanocarbon Topological and Electronic Interface. *Langmuir*, **2018**, 34, 6225-6230	4	2
2	Conductive Hybrid Cu-HHTP-TCNQ Metal–Organic Frameworks for Chemiresistive Sensing. *Advanced Electronic Materials*,2100871	6.4	0
1	At the deep end. *Materials Today*, **2014**, 17, 203-204	21.8	