

# Sandeep Gorantla

## List of Publications by Citations

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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.

52 papers	2,051 citations	21 h-index	45 g-index
56 ext. papers	2,262 ext. citations	7.5 avg, IF	4.42 L-index

#	Paper	IF	Citations
52	Transformation-mediated ductility in CuZr-based bulk metallic glasses. <i>Nature Materials</i> , <b>2010</b> , 9, 473-7	27	407
51	Free-standing single-atom-thick iron membranes suspended in graphene pores. <i>Science</i> , <b>2014</b> , 343, 1228-32	33.5	223
50	van der Waals epitaxial growth of graphene on sapphire by chemical vapor deposition without a metal catalyst. <i>ACS Nano</i> , <b>2013</b> , 7, 385-95	16.7	182
49	Triple yielding and deformation mechanisms in metastable Cu <sub>47.5</sub> Zr <sub>47.5</sub> Al <sub>5</sub> composites. <i>Acta Materialia</i> , <b>2012</b> , 60, 6000-6012	8.4	113
48	Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3890-3900	3.8	105
47	Rolled-up nanomembranes as compact 3D architectures for field effect transistors and fluidic sensing applications. <i>Nano Letters</i> , <b>2013</b> , 13, 213-8	11.5	104
46	Stranski-Krastanov and Volmer-Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. <i>Nano Letters</i> , <b>2016</b> , 16, 6403-6410	11.5	73
45	Criteria for tensile plasticity in Cu <sub>47.5</sub> Zr <sub>47.5</sub> Al <sub>5</sub> bulk metallic glasses. <i>Acta Materialia</i> , <b>2010</b> , 58, 4883-4890	8.4	69
44	Novel Approach for Alternating Current (AC)-Driven Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 210-217	15.6	68
43	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4861-4866	9.6	52
42	Programmable sub-nanometer sculpting of graphene with electron beams. <i>ACS Nano</i> , <b>2012</b> , 6, 10327-34	16.7	49
41	Two-dimensional membrane as elastic shell with proof on the folds revealed by three-dimensional atomic mapping. <i>Nature Communications</i> , <b>2015</b> , 6, 8935	17.4	48
40	Single-wall-carbon-nanotube/single-carbon-chain molecular junctions. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	47
39	A universal transfer route for graphene. <i>Nanoscale</i> , <b>2014</b> , 6, 889-96	7.7	46
38	Amorphous (Glassy) Carbon, a Promising Material for Sodium Ion Battery Anodes: a Combined First-Principles and Experimental Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13496-13501	3.8	44
37	Low voltage transmission electron microscopy of graphene. <i>Small</i> , <b>2015</b> , 11, 515-42	11	37
36	Sexithiophene encapsulated in a single-walled carbon nanotube: an in situ Raman spectroelectrochemical study of a peapod structure. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 11753-9	4.8	36

35	Insights into the Early Growth of Homogeneous Single-Layer Graphene over NiMo Binary Substrates. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3880-3887	9.6	27
34	In situ observations of self-repairing single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	24
33	Plastic Flow of a Cu50Zr45Ti5 Bulk Metallic Glass Composite. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 609-615	9.1	23
32	Dominantly epitaxial growth of graphene on Ni (1 1 1) substrate. <i>Applied Surface Science</i> , <b>2014</b> , 314, 490-499	6.7	21
31	Thermal conductivity of mechanically joined semiconducting/metal nanomembrane superlattices. <i>Nano Letters</i> , <b>2014</b> , 14, 2387-93	11.5	19
30	Improving carrier transport in CuO thin films by rapid thermal annealing. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 075702	1.8	17
29	Catalyst-free Growth of Single Crystalline Bi2Se3 Nanostructures for Quantum Transport Studies. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 4272-4278	3.5	16
28	Retro-fitting an older (S)TEM with two Cs aberration correctors for 80 kV and 60 kV operation. <i>Journal of Microscopy</i> , <b>2013</b> , 249, 87-92	1.9	16
27	Microstructure and magnetic properties of GdHfCoAl phase separated metallic glasses. <i>Intermetallics</i> , <b>2012</b> , 20, 115-122	3.5	14
26	Enhanced $\pi$ -interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. <i>Nano Research</i> , <b>2010</b> , 3, 92-97	10	14
25	In situ observations of fullerene fusion and ejection in carbon nanotubes. <i>Nanoscale</i> , <b>2010</b> , 2, 2077-9	7.7	13
24	The effect of Eu doping on the growth, structure and red-ox activity of ceria nanocubes. <i>CrystEngComm</i> , <b>2018</b> , 20, 1698-1704	3.3	12
23	Synthesis and Optical Properties of Linker-Free TiO2/CdSe Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3347-3358	3.8	12
22	Room temperature in situ growth of B/BOx nanowires and BOx nanotubes. <i>Nano Letters</i> , <b>2014</b> , 14, 799-805	11.5	12
21	Mechanically driven phase transformation in single phase Al62.5Cu25Fe12.5 quasi-crystals: Effect of milling intensity. <i>Acta Materialia</i> , <b>2013</b> , 61, 3819-3830	8.4	12
20	Epitaxial Electrodeposition of Fe3O4 on Single-Crystal Ni(111). <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2017-2038	3.8	11
19	Epitaxial Strain-Induced Growth of CuO at Cu2O/ZnO Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23552-23558	3.8	11
18	The filling of carbon nanotubes with magnetoelectric Cr2O3. <i>Carbon</i> , <b>2012</b> , 50, 1706-1709	10.4	10

17	Structural properties of Cu <sub>2</sub> O epitaxial films grown on c-axis single crystal ZnO by magnetron sputtering. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152110	3.4	9
16	Interface-driven magnetoelectric effects in granular CrO <sub>2</sub> . <i>Europhysics Letters</i> , <b>2010</b> , 91, 17006	1.6	8
15	Electrical Properties of Hybrid Nanomembrane/Nanoparticle Heterojunctions: The Role of Inhomogeneous Arrays. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6891-6899	3.8	7
14	Understanding the growth of amorphous SiO <sub>2</sub> nanofibers and crystalline binary nanoparticles produced by laser ablation. <i>Nanotechnology</i> , <b>2012</b> , 23, 035601	3.4	6
13	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. <i>RSC Advances</i> , <b>2014</b> , 4, 49442-49445	3.7	5
12	Sensitivity of N-polar GaN surface barrier to ambient gases. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 561-567	8.5	5
11	Synthesis of large area AB stacked bilayer graphene by SiC epitaxy and transfer. <i>Nano Futures</i> , <b>2018</b> , 2, 035001	3.6	4
10	Electronic properties and morphology of copper oxide/n-type silicon heterostructures. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 315701	1.8	3
9	Defect assisted thermal synthesis of crystalline aluminum borate nanowires. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 024308	2.5	3
8	Magnetic interactions in graphene decorated with iron oxide nanoparticles. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	3
7	Arsenic-Induced Growth of Dodecagonal GaN Microrods with Stable a-Plane Walls. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001348	8.1	3
6	Interface phenomena in magnetron sputtered CuO/ZnO heterostructures. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 435002	1.8	2
5	Chemical stability of CaCoO/CaMnO p-n junction for oxide-based thermoelectric generators.. <i>RSC Advances</i> , <b>2020</b> , 10, 5026-5031	3.7	2
4	Thin film Cu <sub>2</sub> O for solar cell applications <b>2016</b> ,		2
3	Detailed surface studies on the reduction of Al incorporation into AlGaIn grown by molecular beam epitaxy in the Ga-droplet regime. <i>Vacuum</i> , <b>2022</b> , 111168	3.7	0
2	Atomic scale study of Cu <sub>2</sub> O/ZnO heterojunction interfaces by TEM, STEM and DFT <b>2016</b> , 676-677		
1	In-situ Observations of Restructuring Carbon Nanotubes via Low-voltage Aberration-corrected Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1284, 101		