

# Manu Jaiswal

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,508  
citations

279487

23  
h-index

197535

49  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal transport across wrinkles in few-layer graphene stacks. <i>Nanoscale Advances</i> , 2021, 3, 1708-1716.	2.2	22
2	Intercalated water mediated electromechanical response of graphene oxide films on flexible substrates. <i>Journal of Physics Condensed Matter</i> , 2021, 34, .	0.7	0
3	Thermal expansion coefficient of multilayer graphene with rotational stacking faults. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
4	Geometry dependent performance limits of stretchable reduced graphene oxide interconnects: The role of wrinkles. <i>Carbon</i> , 2020, 158, 864-872.	5.4	7
5	High photoelectrochemical performance of reduced graphene oxide wrapped, CdS functionalized, TiO <sub>2</sub> multi-leg nanotubes. <i>Nanotechnology</i> , 2020, 31, 275701.	1.3	8
6	Chemical-free transfer of patterned reduced graphene oxide thin films for large area flexible electronics and nanoelectromechanical systems. <i>Nanotechnology</i> , 2020, 31, 495301.	1.3	8
7	Stable thermal transport in reduced graphene-oxide aerogel at elevated temperatures. <i>Materials Research Express</i> , 2020, 7, 105603.	0.8	2
8	Probing permeation of energetic hydrogen atoms through molybdenum disulphide on graphene platform. <i>Materials Research Express</i> , 2019, 6, 095614.	0.8	0
9	A modified bulge test for in-situ study of ionic permeation properties of membranes under continuously tunable, uniform pressure. <i>Review of Scientific Instruments</i> , 2019, 90, 073906.	0.6	0
10	Nanostructuring mechanical cracks in a flexible conducting polymer thin film for ultra-sensitive vapor sensing. <i>Nanoscale</i> , 2019, 11, 200-210.	2.8	19
11	Photocatalytic reduction of carbon dioxide using graphene oxide wrapped TiO <sub>2</sub> nanotubes. <i>Applied Surface Science</i> , 2019, 485, 48-55.	3.1	69
12	Ion percolation through annealed, supported graphene oxide films: Role of nanochannels and voids. <i>Journal of Applied Physics</i> , 2019, 125, 144304.	1.1	2
13	Humidity-induced significant microstructural reordering in partially reduced graphene oxide: Insights on water permeation mechanism. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	6
14	Swelling kinetics and electrical charge transport in PEDOT:PSS thin films exposed to water vapor. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 225101.	0.7	27
15	Graphene interfaced perovskite solar cells: Role of graphene flake size. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
16	Multilayer graphene as an effective corrosion protection coating for copper. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
17	Breakdown of water super-permeation in electrically insulating graphene oxide films: role of dual interlayer spacing. <i>Nanotechnology</i> , 2018, 29, 325706.	1.3	4
18	Graphene: Polymer composites as moisture barrier and charge transport layer toward solar cell applications. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4

#	ARTICLE	IF	CITATIONS
19	Isotropic charge transport in conducting PEDOT:PSS thin films on pre-strained stretchable substrates. AIP Conference Proceedings, 2018, , .	0.3	0
20	Probing the electric double-layer capacitance in a Keggin-type polyoxometalate ionic liquid gated graphene transistor. Physical Chemistry Chemical Physics, 2018, 20, 18474-18483.	1.3	16
21	Molecular doping of graphene across ultra-thin molybdenum disulphide spacers. Physica Status Solidi (B): Basic Research, 2017, 254, 1600521.	0.7	1
22	Photo-electrochemical properties of graphene wrapped hierarchically branched nanostructures obtained through hydrothermally transformed TiO <sub>2</sub> nanotubes. Nanotechnology, 2017, 28, 405706.	1.3	9
23	Thickness-dependent Crack Propagation in Uniaxially Strained Conducting Graphene Oxide Films on Flexible Substrates. Scientific Reports, 2017, 7, 2598.	1.6	28
24	Wrinkle and crack-dependent charge transport in a uniaxially strained conducting polymer film on a flexible substrate. Soft Matter, 2017, 13, 5437-5444.	1.2	20
25	Structure-Property Correlations of Carbon and Nitrogen Incorporated NiFe <sub>2</sub> O <sub>4</sub> . IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	1
26	Anomalous charge transport in reduced graphene oxide films on a uniaxially strained elastic substrate. Journal of Physics Condensed Matter, 2017, 29, 235301.	0.7	4
27	Probing the charge recombination in rGO decorated mixed phase (anatase-rutile) TiO <sub>2</sub> multi-leg nanotubes. AIP Advances, 2016, 6, .	0.6	16
28	Enhanced Photo-Electrochemical Performance of Reduced Graphene-Oxide Wrapped TiO <sub>2</sub> Multi-Leg Nanotubes. Journal of the Electrochemical Society, 2016, 163, H652-H656.	1.3	15
29	Deformation of graphene on an oxidizing nickel surface: the role of graphene layer number. Materials Research Express, 2016, 3, 115016.	0.8	2
30	Organic doping of rotated double layer graphene. AIP Conference Proceedings, 2016, , .	0.3	1
31	Graphene Oxide Modified TiO <sub>2</sub> Micro Whiskers and Their Photo Electrochemical Performance. Journal of Nanoscience and Nanotechnology, 2016, 16, 4835-4839.	0.9	0
32	Estimating the thermal expansion coefficient of graphene: the role of graphene-substrate interactions. Journal of Physics Condensed Matter, 2016, 28, 085301.	0.7	45
33	Effect of annealing temperature on the phase transition, structural stability and photo-electrochemical performance of TiO <sub>2</sub> multi-leg nanotubes. Catalysis Today, 2016, 278, 255-261.	2.2	29
34	Correlating Chemical Structure and Charge Transport in Reduced Graphene Oxide for Transparent Conductor and Interconnect Applications. , 2015, , .		3
35	Enhanced photoelectrochemical performance of multi-leg TiO <sub>2</sub> nanotubes through efficient light harvesting. Journal Physics D: Applied Physics, 2015, 48, 295302.	1.3	26
36	Confined water layers in graphene oxide probed with spectroscopic ellipsometry. Applied Physics Letters, 2015, 106, .	1.5	25

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37	Mechanical tearing of graphene on an oxidizing metal surface. <i>Nanotechnology</i> , 2015, 26, 495701.	1.3	17
38	Strain and morphology of graphene membranes on responsive microhydrogel patterns. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	8
39	Giant spin Hall effect in graphene grown by chemical vapour deposition. <i>Nature Communications</i> , 2014, 5, 4748.	5.8	179
40	Unconventional Transport through Graphene on SrTiO <sub>3</sub> : A Plausible Effect of SrTiO <sub>3</sub> Phase-Transitions. <i>Scientific Reports</i> , 2014, 4, 6173.	1.6	27
41	Colossal enhancement of spin-orbit coupling in weakly hydrogenated graphene. <i>Nature Physics</i> , 2013, 9, 284-287.	6.5	384
42	Charge transport in lightly reduced graphene oxide: A transport energy perspective. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	19
43	Multiple Virtual Tunneling of Dirac Fermions in Granular Graphene. <i>Scientific Reports</i> , 2013, 3, 3404.	1.6	4
44	Trap Levels in Graphene Oxide: A Thermally Stimulated Current Study. <i>ECS Solid State Letters</i> , 2012, 2, M17-M19.	1.4	9
45	Electronic Properties of Nanodiamond Decorated Graphene. <i>ACS Nano</i> , 2012, 6, 1018-1025.	7.3	57
46	Localized insulator-conductor transformation of graphene oxide thin films via focused laser beam irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 523-531.	1.1	34
47	Flow Sensing of Single Cell by Graphene Transistor in a Microfluidic Channel. <i>Nano Letters</i> , 2011, 11, 5240-5246.	4.5	106
48	Observation of Long Spin-Relaxation Times in Bilayer Graphene at Room Temperature. <i>Physical Review Letters</i> , 2011, 107, 047206.	2.9	235
49	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. <i>Nano Letters</i> , 2011, 11, 2363-2368.	4.5	214
50	Controlled Hydrogenation of Graphene Sheets and Nanoribbons. <i>ACS Nano</i> , 2011, 5, 888-896.	7.3	105
51	High-Gain Graphene-Titanium Oxide Photoconductor Made from Inkjet Printable Ionic Solution. <i>Advanced Materials</i> , 2010, 22, 5265-5270.	11.1	131
52	Estimation Of Charge Transport Parameters And Equivalent Circuit For Poly Alkyl Thiophene Field-Effect Transistors. , 2010, , .		0
53	Graphene transport at high carrier densities using a polymer electrolyte gate. <i>Europhysics Letters</i> , 2010, 92, 27001.	0.7	73
54	A Bioelectronic Platform Using a Graphene-Lipid Bilayer Interface. <i>ACS Nano</i> , 2010, 4, 7387-7394.	7.3	132

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55	Charge transport in transparent conductors: A comparison. Journal of Applied Physics, 2009, 105, 063713.	1.1	25
56	Electroconductance in single-wall carbon nanotubes. Applied Physics Letters, 2009, 95, .	1.5	3
57	Correlation of morphology and charge transport in poly(3,4-ethylenedioxythiophene)â€polystyrenesulfonic acid (PEDOTâ€PSS) films. Journal of Physics Condensed Matter, 2009, 21, 072101.	0.7	59
58	Photoimpedance characterization of polymer field-effect transistor. Applied Physics Letters, 2009, 95, 093308.	1.5	11
59	Field-Effect and Frequency Dependent Transport in Semiconductor-Enriched Single-Wall Carbon Nanotube Network Device. Journal of Nanoscience and Nanotechnology, 2009, 9, 6533-6537.	0.9	5
60	Magnetoconductance in single-wall carbon nanotubes: Electron-electron interaction and weak localization contributions. Physical Review B, 2007, 76, .	1.1	18
61	Magnetotransport in transparent single-wall carbon nanotube networks. Physical Review B, 2007, 76, .	1.1	34
62	Charge transport in transparent single-wall carbon nanotube networks. Journal of Physics Condensed Matter, 2007, 19, 446006.	0.7	15
63	Polymer electronic materials: a review of charge transport. Polymer International, 2006, 55, 1371-1384.	1.6	158
64	Equivalent circuit for an organic field-effect transistor from impedance measurements under dc bias. Applied Physics Letters, 2006, 88, 123504.	1.5	22