# Manu Jaiswal

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6701000/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 64 papers | 2,508 citations | 279701 23 h-index | 197736 49 g-index |
| 68 all docs | 68 docs citations | 68 times ranked | 4205 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Colossal enhancement of spinâ€“orbit coupling in weakly hydrogenated graphene. Nature Physics, 2013, 9, 284-287. | 6.5 | 384 |
| 2 | Observation of Long Spin-Relaxation Times in Bilayer Graphene at Room Temperature. Physical Review Letters, 2011, 107, 047206. | 2.9 | 235 |
| 3 | Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. Nano Letters, 2011, 11, 2363-2368. | 4.5 | 214 |
| 4 | Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748. | 5.8 | 179 |
| 5 | Polymer electronic materials: a review of charge transport. Polymer International, 2006, 55, 1371-1384. | 1.6 | 158 |
| 6 | A Bioelectronic Platform Using a Grapheneâ˜Lipid Bilayer Interface. ACS Nano, 2010, 4, 7387-7394. | 7.3 | 132 |
| 7 | Highâ€Gain Grapheneâ€Titanium Oxide Photoconductor Made from Inkjet Printable Ionic Solution. Advanced Materials, 2010, 22, 5265-5270. | 11.1 | 131 |
| 8 | Flow Sensing of Single Cell by Graphene Transistor in a Microfluidic Channel. Nano Letters, 2011, 11, 5240-5246. | 4.5 | 106 |
| 9 | Controlled Hydrogenation of Graphene Sheets and Nanoribbons. ACS Nano, 2011, 5, 888-896. | 7.3 | 105 |
| 10 | Graphene transport at high carrier densities using a polymer electrolyte gate. Europhysics Letters, 2010, 92, 27001. | 0.7 | 73 |
| 11 | Photocatalytic reduction of carbon dioxide using graphene oxide wrapped TiO2 nanotubes. Applied Surface Science, 2019, 485, 48-55. | 3.1 | 69 |
| 12 | 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 |
| 13 | Electronic Properties of Nanodiamond Decorated Graphene. ACS Nano, 2012, 6, 1018-1025. | 7.3 | 57 |
| 14 | Estimating the thermal expansion coefficient of graphene: the role of grapheneâ€“substrate interactions. Journal of Physics Condensed Matter, 2016, 28, 085301. | 0.7 | 45 |
| 15 | Magnetotransport in transparent single-wall carbon nanotube networks. Physical Review B, 2007, 76, . | 1.1 | 34 |
| 16 | Localized insulator-conductor transformation of graphene oxide thin films via focused laser beam irradiation. Applied Physics A: Materials Science and Processing, 2012, 106, 523-531. | 1.1 | 34 |
| 17 | Effect of annealing temperature on the phase transition, structural stability and photo-electrochemical performance of TiO 2 multi-leg nanotubes. Catalysis Today, 2016, 278, 255-261. | 2.2 | 29 |
| 18 | Thickness-dependent Crack Propagation in Uniaxially Strained Conducting Graphene Oxide Films on Flexible Substrates. Scientific Reports, 2017, 7, 2598. | 1.6 | 28 |

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|---|---|---|---|
| 19 | Unconventional Transport through Graphene on SrTiO3: A Plausible Effect of SrTiO3 Phase-Transitions. Scientific Reports, 2014, 4, 6173. | 1.6 | 27 |
| 20 | Swelling kinetics and electrical charge transport in PEDOT:PSS thin films exposed to water vapor. Journal of Physics Condensed Matter, 2018, 30, 225101. | 0.7 | 27 |
| 21 | 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 |
| 22 | Charge transport in transparent conductors: A comparison. Journal of Applied Physics, 2009, 105, 063713. | 1.1 | 25 |
| 23 | Confined water layers in graphene oxide probed with spectroscopic ellipsometry. Applied Physics Letters, 2015, 106, . | 1.5 | 25 |
| 24 | Equivalent circuit for an organic field-effect transistor from impedance measurements under dc bias. Applied Physics Letters, 2006, 88, 123504. | 1.5 | 22 |
| 25 | Thermal transport across wrinkles in few-layer graphene stacks. Nanoscale Advances, 2021, 3, 1708-1716. | 2.2 | 22 |
| 26 | 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 |
| 27 | Charge transport in lightly reduced graphene oxide: A transport energy perspective. Journal of Applied Physics, 2013, 113, . | 1.1 | 19 |
| 28 | Nanostructuring mechanical cracks in a flexible conducting polymer thin film for ultra-sensitive vapor sensing. Nanoscale, 2019, 11, 200-210. | 2.8 | 19 |
| 29 | Magnetoconductance in single-wall carbon nanotubes: Electron-electron interaction and weak localization contributions. Physical Review B, 2007, 76, . | 1.1 | 18 |
| 30 | Mechanical tearing of graphene on an oxidizing metal surface. Nanotechnology, 2015, 26, 495701. | 1.3 | 17 |
| 31 | Probing the charge recombination in rGO decorated mixed phase (anatase-rutile) TiO2 multi-leg nanotubes. AIP Advances, 2016, 6, . | 0.6 | 16 |
| 32 | 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 |
| 33 | Charge transport in transparent single-wall carbon nanotube networks. Journal of Physics Condensed Matter, 2007, 19, 446006. | 0.7 | 15 |
| 34 | 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 |
| 35 | Photoimpedance characterization of polymer field-effect transistor. Applied Physics Letters, 2009, 95, 093308. | 1.5 | 11 |
| 36 | Trap Levels in Graphene Oxide: A Thermally Stimulated Current Study. ECS Solid State Letters, 2012, 2, M17-M19. | 1.4 | 9 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Strain and morphology of graphene membranes on responsive microhydrogel patterns. Applied Physics Letters, 2014, 105, . | 1.5 | 8 |
| 39 | High photoelectrochemical performance of reduced graphene oxide wrapped, CdS functionalized, TiO<sub>2</sub> multi-leg nanotubes. Nanotechnology, 2020, 31, 275701. | 1.3 | 8 |
| 40 | Chemical-free transfer of patterned reduced graphene oxide thin films for large area flexible electronics and nanoelectromechanical systems. Nanotechnology, 2020, 31, 495301. | 1.3 | 8 |
| 41 | Geometry dependent performance limits of stretchable reduced graphene oxide interconnects: The role of wrinkles. Carbon, 2020, 158, 864-872. | 5.4 | 7 |
| 42 | Humidity-induced significant microstructural reordering in partially reduced graphene oxide: Insights on water permeation mechanism. Journal of Applied Physics, 2019, 125, . | 1.1 | 6 |
| 43 | 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 |
| 44 | Multiple Virtual Tunneling of Dirac Fermions in Granular Graphene. Scientific Reports, 2013, 3, 3404. | 1.6 | 4 |
| 45 | Breakdown of water super-permeation in electrically insulating graphene oxide films: role of dual interlayer spacing. Nanotechnology, 2018, 29, 325706. | 1.3 | 4 |
| 46 | Graphene: Polymer composites as moisture barrier and charge transport layer toward solar cell applications. AIP Conference Proceedings, 2018, , . | 0.3 | 4 |
| 47 | 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 |
| 48 | Electroconductance in single-wall carbon nanotubes. Applied Physics Letters, 2009, 95, . | 1.5 | 3 |
| 49 | Correlating Chemical Structure and Charge Transport in Reduced Graphene Oxide for Transparent Conductor and Interconnect Applications. , 2015, , . | | 3 |
| 50 | Deformation of graphene on an oxidizing nickel surface: the role of graphene layer number. Materials Research Express, 2016, 3, 115016. | 0.8 | 2 |
| 51 | Ion percolation through annealed, supported graphene oxide films: Role of nanochannels and voids. Journal of Applied Physics, 2019, 125, 144304. | 1.1 | 2 |
| 52 | Stable thermal transport in reduced graphene-oxide aerogel at elevated temperatures. Materials Research Express, 2020, 7, 105603. | 0.8 | 2 |
| 53 | Organic doping of rotated double layer graphene. AIP Conference Proceedings, 2016, , . | 0.3 | 1 |
| 54 | Molecular doping of graphene across ultraâ€thin molybdenum disulphide spacers. Physica Status Solidi (B): Basic Research, 2017, 254, 1600521. | 0.7 | 1 |

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|---|---|---|---|
| 55 | Structure-Property Correlations of Carbon and Nitrogen Incorporated NiFe2O4. IEEE Transactions on Magnetics, 2017, 53, 1-5. | 1.2 | 1 |
| 56 | Graphene interfaced perovskite solar cells: Role of graphene flake size. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 57 | Multilayer graphene as an effective corrosion protection coating for copper. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 58 | Estimation Of Charge Transport Parameters And Equivalent Circuit For Poly Alkyl Thiophene Field-Effect Transistors. , 2010, , . | | 0 |
| 59 | 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 |
| 60 | Isotropic charge transport in conducting PEDOT:PSS thin films on pre-strained stretchable substrates. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 61 | Probing permeation of energetic hydrogen atoms through molybdenum disulphide on graphene platform. Materials Research Express, 2019, 6, 095614. | 0.8 | 0 |
| 62 | A modified bulge test for in-situ study of ionic permeation properties of membranes under continuously tunable, uniform pressure. Review of Scientific Instruments, 2019, 90, 073906. | 0.6 | 0 |
| 63 | Intercalated water mediated electromechanical response of graphene oxide films on flexible substrates. Journal of Physics Condensed Matter, 2021, 34, . | 0.7 | 0 |
| 64 | Thermal expansion coefficient of multilayer graphene with rotational stacking faults. AIP Conference Proceedings, 2021, , . | 0.3 | 0 |