

# Cinzia Casiraghi

## 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.

75  
papers

6,285  
citations

33  
h-index

79  
g-index

82  
ext. papers

7,200  
ext. citations

10  
avg, IF

5.59  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 75 | Insights into the exfoliation mechanism of pyrene-assisted liquid phase exfoliation of graphene from lateral size-thickness characterisation. <i>Carbon</i> , <b>2022</b> , 186, 550-559                   | 10.4 | 2         |
| 74 | Electrolyte-Gated Organic Field-Effect Transistors for Quantitative Monitoring of the Molecular Dynamics of Crystallization at the Solid-Liquid Interface.. <i>Nano Letters</i> , <b>2022</b> ,            | 11.5 | 1         |
| 73 | 2D Transition Metal Dichalcogenides Trigger Trained Immunity in Human Macrophages through Epigenetic and Metabolic Pathways.. <i>Small</i> , <b>2022</b> , e2107816  | 11   | 1         |
| 72 | Inkjet-printed low-dimensional materials-based complementary electronic circuits on paper. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,   | 8.8  | 3         |
| 71 | In situ probing of the thermal treatment of h-BN towards exfoliation. <i>Nanotechnology</i> , <b>2021</b> , 32, 105704   | 3.4  | 2         |
| 70 | 1/f Noise Characterization of Bilayer MoS <sub>2</sub> Field-Effect Transistors on Paper with Inkjet-Printed Contacts and hBN Dielectrics. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100283 | 6.4  | 1         |
| 69 | Viscoelastic surface electrode arrays to interface with viscoelastic tissues. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 1019-1029   | 28.7 | 27        |
| 68 | Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. <i>Faraday Discussions</i> , <b>2021</b> , 227, 46-60   | 3.6  | 6         |
| 67 | 2D materials production and generation of functional inks: general discussion. <i>Faraday Discussions</i> , <b>2021</b> , 227, 141-162   | 3.6  | 2         |
| 66 | Hybrid MoS/PEDOT:PSS transporting layers for interface engineering of nanoplatelet-based light-emitting diodes. <i>Dalton Transactions</i> , <b>2021</b> , 50, 9208-9214                                   | 4.3  | 1         |
| 65 | Real-time monitoring of crystallization from solution by using an interdigitated array electrode sensor. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 468-473  | 10.8 | 1         |
| 64 | Gamma Radiation-Induced Oxidation, Doping, and Etching of Two-Dimensional MoS Crystals. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4211-4222  | 3.8  | 7         |
| 63 | Dispersant-assisted liquid-phase exfoliation of 2D materials beyond graphene. <i>Nanoscale</i> , <b>2021</b> , 13, 460-484   | 4.84 | 26        |
| 62 | Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. <i>Nanoscale</i> , <b>2020</b> , 12, 12383-12394   | 7.7  | 13        |
| 61 | Graphene oxide nanosheets modulate spinal glutamatergic transmission and modify locomotor behaviour in an in vivo zebrafish model. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1250-1263                  | 10.8 | 5         |
| 60 | The influence of crystal thickness and interlayer interactions on the properties of heavy ion irradiated MoS <sub>2</sub> . <i>2D Materials</i> , <b>2020</b> , 7, 035011                                  | 5.9  | 4         |
| 59 | Inkjet-printed graphene Hall mobility measurements and low-frequency noise characterization. <i>Nanoscale</i> , <b>2020</b> , 12, 6708-6716  | 7.7  | 8         |

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| 58 | Intercalation, decomposition, entrapment - a new route to graphene nanobubbles. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 7606-7615   | 3.6  | 4  |
| 57 | Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. <i>Nano Letters</i> , <b>2020</b> , 20, 3411-3419   | 11.5 | 25 |
| 56 | Palladium catalysed C-H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. <i>Chemical Science</i> , <b>2020</b> , 11, 2472-2478                              | 9.4  | 5  |
| 55 | Printed graphene/WS2 battery-free wireless photosensor on papers. <i>2D Materials</i> , <b>2020</b> , 7, 024004  | 5.9  | 30 |
| 54 | A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18293-18298                                | 16.4 | 16 |
| 53 | Selective polymorphism of Glycine by acoustic levitation. <i>CrystEngComm</i> , <b>2020</b> , 22, 7075-7081  | 3.3  | 2  |
| 52 | Exploiting the Surface Properties of Graphene for Polymorph Selectivity. <i>ACS Nano</i> , <b>2020</b> , 14, 10394-10401   | 10.7 | 10 |
| 51 | Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. <i>Nature Communications</i> , <b>2020</b> , 11, 3566                                      | 17.4 | 61 |
| 50 | Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics. <i>Theranostics</i> , <b>2020</b> , 10, 5435-5488  | 12.1 | 47 |
| 49 | Flexible, Print-in-Place 1D-2D Thin-Film Transistors Using Aerosol Jet Printing. <i>ACS Nano</i> , <b>2019</b> , 13, 11263-11270   | 11.7 | 10 |
| 48 | Water-based and inkjet printable inks made by electrochemically exfoliated graphene. <i>Carbon</i> , <b>2019</b> , 149, 213-221  | 10.4 | 52 |
| 47 | Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 503-510   | 4.6  | 10 |
| 46 | Gas Blow Coating: A Deposition Technique To Control the Crystal Morphology in Thin Films of Organic Semiconductors. <i>ACS Omega</i> , <b>2019</b> , 4, 11657-11662  | 3.9  | 5  |
| 45 | Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. <i>Physical Review B</i> , <b>2019</b> , 100,  | 3.3  | 5  |
| 44 | All-2D Material Inkjet-Printed Capacitors: Toward Fully Printed Integrated Circuits. <i>ACS Nano</i> , <b>2019</b> , 13, 54-60   | 16.7 | 60 |
| 43 | Laser Ablation of Poly(lactic acid) Sheets for the Rapid Prototyping of Sustainable, Single-Use, Disposable Medical Microcomponents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4899-4908 | 8.3  | 16 |
| 42 | Intrinsic Properties of Single Graphene Nanoribbons in Solution: Synthetic and Spectroscopic Studies. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10416-10420                             | 16.4 | 31 |
| 41 | Photocurrent study of all-printed photodetectors on paper made of different transition metal dichalcogenide nanosheets. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 034005                          | 3.1  | 17 |

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| 40 | Water-based and biocompatible 2D crystal inks for all-inkjet-printed heterostructures. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 343-350   | 28.7 | 335 |
| 39 | Aqueous dispersions of nanostructures formed through the self-assembly of iminolipids with exchangeable hydrophobic termini. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 17036-17043                                   | 3.6  | 7   |
| 38 | Vibrational fingerprints of residual polymer on transferred CVD-graphene. <i>Carbon</i> , <b>2017</b> , 117, 473-475  | 10.4 | 12  |
| 37 | Growing N-doped multiphase TiO <sub>2</sub> nanocomposites on reduced graphene oxide: Characterization and activity under low energy visible radiation. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 5091-5098 | 6.8  | 10  |
| 36 | Edge Functionalization of Structurally Defined Graphene Nanoribbons for Modulating the Self-Assembled Structures. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16454-16457  | 16.4 | 33  |
| 35 | Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. <i>Carbon</i> , <b>2016</b> , 102, 357-366  | 10.4 | 28  |
| 34 | The influence of few-layer graphene on the gas permeability of the high-free-volume polymer PIM-1. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,                      | 3    | 42  |
| 33 | Raman Fingerprints of Atomically Precise Graphene Nanoribbons. <i>Nano Letters</i> , <b>2016</b> , 16, 3442-7   | 11.5 | 67  |
| 32 | Perchlorination of Coronene Enhances its Propensity for Self-Assembly on Graphene. <i>ChemPhysChem</i> , <b>2016</b> , 17, 330-330  | 3.2  |     |
| 31 | Perchlorination of Coronene Enhances its Propensity for Self-Assembly on Graphene. <i>ChemPhysChem</i> , <b>2016</b> , 17, 352-7  | 3.2  | 21  |
| 30 | Raman spectroscopy of highly pressurized graphene membranes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 221907   | 10.7 | 32  |
| 29 | Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11666-11671   | 13   | 38  |
| 28 | Poly(ethylene oxide) Functionalized Graphene Nanoribbons with Excellent Solution Processability. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10136-9   | 16.4 | 63  |
| 27 | Graphene: A Supramolecular Strategy to Leverage the Liquid-Phase Exfoliation of Graphene in the Presence of Surfactants: Unraveling the Role of the Length of Fatty Acids (Small 14/2015). <i>Small</i> , <b>2015</b> , 11, 1736-1736     | 11   | 1   |
| 26 | A supramolecular strategy to leverage the liquid-phase exfoliation of graphene in the presence of surfactants: unraveling the role of the length of fatty acids. <i>Small</i> , <b>2015</b> , 11, 1691-702                                | 11   | 76  |
| 25 | Enhancing the Liquid-Phase Exfoliation of Graphene in Organic Solvents upon Addition of n-Octylbenzene. <i>Scientific Reports</i> , <b>2015</b> , 5, 16684  | 4.9  | 63  |
| 24 | Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. <i>Nature Chemistry</i> , <b>2014</b> , 6, 126-32   | 17.6 | 384 |
| 23 | Raman modes of MoS <sub>2</sub> used as fingerprint of van der Waals interactions in 2-D crystal-based heterostructures. <i>ACS Nano</i> , <b>2014</b> , 8, 9914-24   | 16.7 | 142 |

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|----|---|------|------|
| 22 | Bottom-up synthesis of liquid-phase-processable graphene nanoribbons with near-infrared absorption. <i>ACS Nano</i> , <b>2014</b> , 8, 11622-30   | 16.7 | 122  |
| 21 | Harnessing the liquid-phase exfoliation of graphene using aliphatic compounds: a supramolecular approach. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10355-61       | 16.4 | 82   |
| 20 | Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. <i>2D Materials</i> , <b>2014</b> , 1, 011012                                    | 5.9  | 45   |
| 19 | Harnessing the Liquid-Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10523-10529                           | 3.6  | 25   |
| 18 | Tunable D peak in gated graphene. <i>Nano Research</i> , <b>2014</b> , 7, 338-344   | 10   | 16   |
| 17 | Raman study on defective graphene: Effect of the excitation energy, type, and amount of defects. <i>Physical Review B</i> , <b>2013</b> , 88,   | 3.3  | 219  |
| 16 | Raman fingerprint of aligned graphene/h-BN superlattices. <i>Nano Letters</i> , <b>2013</b> , 13, 5242-6  | 11.5 | 83   |
| 15 | Electron-beam-induced direct etching of graphene. <i>Carbon</i> , <b>2013</b> , 64, 84-91   | 10.4 | 33   |
| 14 | Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <i>Nanoscale</i> , <b>2013</b> , 5, 4205-16                 | 7.7  | 109  |
| 13 | 2p or not 2p: tuppence-based SERS for the detection of illicit materials. <i>Analyst, The</i> , <b>2013</b> , 138, 118-22   | 5    | 34   |
| 12 | Single- and double-sided chemical functionalization of bilayer graphene. <i>Small</i> , <b>2013</b> , 9, 631-9  | 11   | 47   |
| 11 | Probing the nature of defects in graphene by Raman spectroscopy. <i>Nano Letters</i> , <b>2012</b> , 12, 3925-30  | 11.5 | 1341 |
| 10 | Raman spectroscopy of boron-doped single-layer graphene. <i>ACS Nano</i> , <b>2012</b> , 6, 6293-300  | 16.7 | 209  |
| 9  | Raman spectroscopy of graphene and bilayer under biaxial strain: bubbles and balloons. <i>Nano Letters</i> , <b>2012</b> , 12, 617-21   | 11.5 | 361  |
| 8  | High-yield production and transfer of graphene flakes obtained by anodic bonding. <i>ACS Nano</i> , <b>2011</b> , 5, 7700-6   | 16.7 | 37   |
| 7  | Electrochemical behavior of monolayer and bilayer graphene. <i>ACS Nano</i> , <b>2011</b> , 5, 8809-15  | 16.7 | 131  |
| 6  | Raman intensity of graphene. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2593-2597  | 1.3  | 19   |
| 5  | Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9052 |      | 74   |

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|---|---|------|------|
| 4 | Breakdown of the adiabatic Born-Oppenheimer approximation in graphene. <i>Nature Materials</i> , <b>2007</b> , 6, 198-201   | 27   | 1077 |
| 3 | The ultrasmoothness of diamond-like carbon surfaces. <i>Science</i> , <b>2005</b> , 309, 1545-8   | 33.3 | 262  |
| 2 | Pulsed laser deposition of diamondlike carbon films on polycarbonate. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 859-865                                   | 2.5  | 33   |
| 1 | All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors. <i>ACS Applied Nano Materials</i> , | 5.6  | 3    |