Cinzia Casiraghi

List of Publications by Citations

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	Probing the nature of defects in graphene by Raman spectroscopy. *Nano Letters*, **2012**, 12, 3925-30	11.5	1341
74	Breakdown of the adiabatic Born-Oppenheimer approximation in graphene. *Nature Materials*, **2007**, 6, 198-201	27	1077
73	Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. *Nature Chemistry*, **2014**, 6, 126-32	17.6	384
72	Raman spectroscopy of graphene and bilayer under biaxial strain: bubbles and balloons. *Nano Letters*, **2012**, 12, 617-21	11.5	361
71	Water-based and biocompatible 2D crystal inks for all-inkjet-printed heterostructures. *Nature Nanotechnology*, **2017**, 12, 343-350	28.7	335
70	The ultrasmoothness of diamond-like carbon surfaces. *Science*, **2005**, 309, 1545-8	33.3	262
69	Raman study on defective graphene: Effect of the excitation energy, type, and amount of defects. *Physical Review B*, **2013**, 88,	3.3	219
68	Raman spectroscopy of boron-doped single-layer graphene. *ACS Nano*, **2012**, 6, 6293-300	16.7	209
67	Raman modes of MoS2 used as fingerprint of van der Waals interactions in 2-D crystal-based heterostructures. *ACS Nano*, **2014**, 8, 9914-24	16.7	142
66	Electrochemical behavior of monolayer and bilayer graphene. *ACS Nano*, **2011**, 5, 8809-15	16.7	131
65	Bottom-up synthesis of liquid-phase-processable graphene nanoribbons with near-infrared absorption. *ACS Nano*, **2014**, 8, 11622-30	16.7	122
64	Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. *Nanoscale*, **2013**, 5, 4205-16	7.7	109
63	Raman fingerprint of aligned graphene/h-BN superlattices. *Nano Letters*, **2013**, 13, 5242-6	11.5	83
62	Harnessing the liquid-phase exfoliation of graphene using aliphatic compounds: a supramolecular approach. *Angewandte Chemie - International Edition*, **2014**, 53, 10355-61	16.4	82
61	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*, **2015**, 11, 1691-702	11	76
60	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. *Journal of Materials Chemistry*, **2010**, 20, 9052		74
59	Raman Fingerprints of Atomically Precise Graphene Nanoribbons. *Nano Letters*, **2016**, 16, 3442-7	11.5	67

58	Enhancing the Liquid-Phase Exfoliation of Graphene in Organic Solvents upon Addition of n-Octylbenzene. *Scientific Reports*, **2015**, 5, 16684	4.9	63
57	Poly(ethylene oxide) Functionalized Graphene Nanoribbons with Excellent Solution Processability. *Journal of the American Chemical Society*, **2016**, 138, 10136-9	16.4	63
56	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. *Nature Communications*, **2020**, 11, 3566	17.4	61
55	Flexible, Print-in-Place 1D-2D Thin-Film Transistors Using Aerosol Jet Printing. *ACS Nano*, **2019**, 13, 11263-11272	16.7	60
54	All-2D Material Inkjet-Printed Capacitors: Toward Fully Printed Integrated Circuits. *ACS Nano*, **2019**, 13, 54-60	16.7	60
53	Water-based and inkjet printable inks made by electrochemically exfoliated graphene. *Carbon*, **2019**, 149, 213-221	10.4	52
52	Single- and double-sided chemical functionalization of bilayer graphene. *Small*, **2013**, 9, 631-9	11	47
51	Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics. *Theranostics*, **2020**, 10, 5435-5488	12.1	47
50	Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. *2D Materials*, **2014**, 1, 011012	5.9	45
49	The influence of few-layer graphene on the gas permeability of the high-free-volume polymer PIM-1. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	42
48	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. *Journal of Materials Chemistry A*, **2016**, 4, 11666-11671	13	38
47	High-yield production and transfer of graphene flakes obtained by anodic bonding. *ACS Nano*, **2011**, 5, 7700-6	16.7	37
46	2p or not 2p: tuppence-based SERS for the detection of illicit materials. *Analyst, The*, **2013**, 138, 118-22	5	34
45	Electron-beam-induced direct etching of graphene. *Carbon*, **2013**, 64, 84-91	10.4	33
44	Edge Functionalization of Structurally Defined Graphene Nanoribbons for Modulating the Self-Assembled Structures. *Journal of the American Chemical Society*, **2017**, 139, 16454-16457	16.4	33
43	Pulsed laser deposition of diamondlike carbon films on polycarbonate. *Journal of Applied Physics*, **2003**, 93, 859-865	2.5	33
42	Raman spectroscopy of highly pressurized graphene membranes. *Applied Physics Letters*, **2016**, 108, 221907	3.7	32
41	Intrinsic Properties of Single Graphene Nanoribbons in Solution: Synthetic and Spectroscopic Studies. *Journal of the American Chemical Society*, **2018**, 140, 10416-10420	16.4	31

40	Printed graphene/WS2 battery-free wireless photosensor on papers. *2D Materials*, **2020**, 7, 024004	5.9	30
39	Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. *Carbon*, **2016**, 102, 357-366	10.4	28
38	Viscoelastic surface electrode arrays to interface with viscoelastic tissues. *Nature Nanotechnology*, **2021**, 16, 1019-1029	28.7	27
37	Dispersant-assisted liquid-phase exfoliation of 2D materials beyond graphene. *Nanoscale*, **2021**, 13, 460-484	7.7	26
36	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. *Nano Letters*, **2020**, 20, 3411-3419	11.5	25
35	Harnessing the Liquid-Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. *Angewandte Chemie*, **2014**, 126, 10523-10529	3.6	25
34	Perchlorination of Coronene Enhances its Propensity for Self-Assembly on Graphene. *ChemPhysChem*, **2016**, 17, 352-7	3.2	21
33	Raman intensity of graphene. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2593-2597	1.3	19
32	Photocurrent study of all-printed photodetectors on paper made of different transition metal dichalcogenide nanosheets. *Flexible and Printed Electronics*, **2018**, 3, 034005	3.1	17
31	Laser Ablation of Poly(lactic acid) Sheets for the Rapid Prototyping of Sustainable, Single-Use, Disposable Medical Microcomponents. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 4899-4908	8.3	16
30	Tunable D peak in gated graphene. *Nano Research*, **2014**, 7, 338-344	10	16
29	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. *Journal of the American Chemical Society*, **2020**, 142, 18293-18298	16.4	16
28	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. *Nanoscale*, **2020**, 12, 12383-12394	7.7	13
27	Vibrational fingerprints of residual polymer on transferred CVD-graphene. *Carbon*, **2017**, 117, 473-475	10.4	12
26	Growing N-doped multiphase TiO 2 nanocomposites on reduced graphene oxide: Characterization and activity under low energy visible radiation. *Journal of Environmental Chemical Engineering*, **2017** , 5, 5091-5098	6.8	10
25	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. *Molecular Systems Design and Engineering*, **2019**, 4, 503-510	4.6	10
24	Exploiting the Surface Properties of Graphene for Polymorph Selectivity. *ACS Nano*, **2020**, 14, 10394-10401	15.7	10
23	Inkjet-printed graphene Hall mobility measurements and low-frequency noise characterization. *Nanoscale*, **2020**, 12, 6708-6716	7.7	8

22	Aqueous dispersions of nanostructures formed through the self-assembly of iminolipids with exchangeable hydrophobic termini. *Physical Chemistry Chemical Physics*, **2017**, 19, 17036-17043	3.6	7
21	Gamma Radiation-Induced Oxidation, Doping, and Etching of Two-Dimensional MoS Crystals. *Journal of Physical Chemistry C*, **2021**, 125, 4211-4222	3.8	7
20	Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. *Faraday Discussions*, **2021**, 227, 46-60	3.6	6
19	Graphene oxide nanosheets modulate spinal glutamatergic transmission and modify locomotor behaviour in an in vivo zebrafish model. *Nanoscale Horizons*, **2020**, 5, 1250-1263	10.8	5
18	Palladium catalysed C-H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. *Chemical Science*, **2020**, 11, 2472-2478	9.4	5
17	Gas Blow Coating: A Deposition Technique To Control the Crystal Morphology in Thin Films of Organic Semiconductors. *ACS Omega*, **2019**, 4, 11657-11662	3.9	5
16	Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. *Physical Review B*, **2019**, 100,	3.3	5
15	The influence of crystal thickness and interlayer interactions on the properties of heavy ion irradiated MoS2. *2D Materials*, **2020**, 7, 035011	5.9	4
14	Intercalation, decomposition, entrapment - a new route to graphene nanobubbles. *Physical Chemistry Chemical Physics*, **2020**, 22, 7606-7615	3.6	4
13	Inkjet-printed low-dimensional materials-based complementary electronic circuits on paper. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	3
12	All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors. *ACS Applied Nano Materials*,	5.6	3
11	Insights into the exfoliation mechanism of pyrene-assisted liquid phase exfoliation of graphene from lateral size-thickness characterisation. *Carbon*, **2022**, 186, 550-559	10.4	2
10	In situ probing of the thermal treatment of h-BN towards exfoliation. *Nanotechnology*, **2021**, 32, 105704	3.4	2
9	Selective polymorphism of □glycine by acoustic levitation. *CrystEngComm*, **2020**, 22, 7075-7081	3.3	2
8	2D materials production and generation of functional inks: general discussion. *Faraday Discussions*, **2021**, 227, 141-162	3.6	2
7	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). *Small*, **2015**, 11, 1736-1736	11	1
6	1/f Noise Characterization of Bilayer MoS2 Field-Effect Transistors on Paper with Inkjet-Printed Contacts and hBN Dielectrics. *Advanced Electronic Materials*, **2021**, 7, 2100283	6.4	1
5	Hybrid MoS/PEDOT:PSS transporting layers for interface engineering of nanoplatelet-based light-emitting diodes. *Dalton Transactions*, **2021**, 50, 9208-9214	4.3	1

4	Real-time monitoring of crystallization from solution by using an interdigitated array electrode sensor. *Nanoscale Horizons*, **2021**, 6, 468-473	10.8	1
3	Electrolyte-Gated Organic Field-Effect Transistors for Quantitative Monitoring of the Molecular Dynamics of Crystallization at the Solid-Liquid Interface.. *Nano Letters*, **2022**,	11.5	1
2	2D Transition Metal Dichalcogenides Trigger Trained Immunity in Human Macrophages through Epigenetic and Metabolic Pathways.. *Small*, **2022**, e2107816	11	1
1	Perchlorination of Coronene Enhances its Propensity for Self-Assembly on Graphene. *ChemPhysChem*, **2016**, 17, 330-330	3.2	