

# Camilla Coletti

## 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.

133  
papers

4,287  
citations

31  
h-index

63  
g-index

147  
ext. papers

5,177  
ext. citations

6.3  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
133	Ultra-clean high-mobility graphene on technologically relevant substrates.. <i>Nanoscale</i> , <b>2022</b> ,	7.7	3
132	Optical Response of CVD-Grown ML-WS <sub>2</sub> Flakes on an Ultra-Dense Au NP Plasmonic Array. <i>Chemosensors</i> , <b>2022</b> , 10, 120	4	0
131	Ultrafast hot carrier transfer in WS <sub>2</sub> /graphene large area heterostructures. <i>Npj 2D Materials and Applications</i> , <b>2022</b> , 6,	8.8	2
130	Graphene on SiC <b>2022</b> , 65-97		
129	Temperature-Dependent Bending Rigidity of AB-Stacked Bilayer Graphene.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 266102	7.4	0
128	Evaluating the use of graphene electrodes in sub-micrometric, high-frequency n-type organic transistors. <i>Synthetic Metals</i> , <b>2021</b> , 273, 116683	3.6	3
127	Ultrafast Charge Separation in Bilayer WS <sub>2</sub> /Graphene Heterostructure Revealed by Time- and Angle-Resolved Photoemission Spectroscopy. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	1
126	Modeling Photodetection at the Graphene/Ag <sub>2</sub> S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2100120	2.5	0
125	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , <b>2021</b> , 177, 282-290	10.4	5
124	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
123	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	3
122	Black Phosphorus n-Type Doping by Cu: A Microscopic Surface Investigation. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 13477-13484	3.8	1
121	Survival of Floquet-Bloch States in the Presence of Scattering. <i>Nano Letters</i> , <b>2021</b> , 21, 5028-5035	11.5	6
120	Antenna-Coupled Graphene Field-Effect Transistors as a Terahertz Imaging Array. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2021</b> , 11, 70-78	3.4	1
119	Resolving mobility anisotropy in quasi-free-standing epitaxial graphene by terahertz optical Hall effect. <i>Carbon</i> , <b>2021</b> , 172, 248-259	10.4	3
118	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , <b>2021</b> , 32, 155504	3.4	4
117	Thermal stability of monolayer WS <sub>2</sub> in BEOL conditions. <i>JPhys Materials</i> , <b>2021</b> , 4, 024002	4.2	2

116	Stacking Relations and Substrate Interaction of Graphene on Copper Foil. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2002025	4.6	1
115	Critical View on Buffer Layer Formation and Monolayer Graphene Properties in High-Temperature Sublimation. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1891	2.6	0
114	Synthesis of Large-Scale Monolayer 1TtMoTe and Its Stabilization Scalable hBN Encapsulation. <i>ACS Nano</i> , <b>2021</b> , 15, 4213-4225	16.7	15
113	Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , <b>2021</b> , 15, 3171-3187	16.7	24
112	Photo thermal effect graphene detector featuring 105 Gbit s NRZ and 120 Gbit s PAM4 direct detection. <i>Nature Communications</i> , <b>2021</b> , 12, 806	17.4	13
111	Local Optical Properties in CVD-Grown Monolayer WS Flakes. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 16059-16065	3.8	3
110	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 050501	3.4	1
109	Deterministic synthesis of Cu9S5 flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1352-1361	5.1	0
108	Tuning the Doping of Epitaxial Graphene on a Conventional Semiconductor via Substrate Surface Reconstruction. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1262-1267	6.4	1
107	Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
106	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 276401	7.4	4
105	Direct evidence for efficient ultrafast charge separation in epitaxial WS/graphene heterostructures. <i>Science Advances</i> , <b>2020</b> , 6, eaay0761	14.3	35
104	Semiconductor to metal transition in two-dimensional gold and its van der Waals heterostack with graphene. <i>Nature Communications</i> , <b>2020</b> , 11, 2236	17.4	22
103	Graphene Promotes Axon Elongation through Local Stall of Nerve Growth Factor Signaling Endosomes. <i>Nano Letters</i> , <b>2020</b> , 20, 3633-3641	11.5	21
102	Optical dielectric function of two-dimensional WS2 on epitaxial graphene. <i>2D Materials</i> , <b>2020</b> , 7, 025024	5.9	6
101	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
100	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. <i>Scientific Reports</i> , <b>2020</b> , 10, 6882	4.9	12
99	Edge Defects Promoted Oxidation of Monolayer WS2 Synthesized on Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9035-9044	3.8	12

98	High-quality electrical transport using scalable CVD graphene. <i>2D Materials</i> , <b>2020</b> , 7, 041003	5.9	14
97	Stress-strain in electron-beam activated polymeric micro-actuators. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 115104	2.5	2
96	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
95	Effect of Chemical Vapor Deposition WS on Viability and Differentiation of SH-SY5Y Cells. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 592502	5.1	3
94	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , <b>2020</b> , 14, 11190-11204	16.7	24
93	Epitaxial Growth of Wafer-Scale Molybdenum Disulfide/Graphene Heterostructures by Metal-Organic Vapor-Phase Epitaxy and Their Application in Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44335-44344	9.5	12
92	Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , <b>2020</b> , 499, 143923	9.3	15
91	Deterministic direct growth of WS <sub>2</sub> on CVD graphene arrays. <i>2D Materials</i> , <b>2020</b> , 7, 014002	5.9	8
90	30°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , <b>2020</b> , 20, 3313-3319	11.5	27
89	Submicron Size Schottky Junctions on As-Grown Monolayer Epitaxial Graphene on Ge(100): A Low-Invasive Scanned-Probe-Based Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35079-35087	9.5	4
88	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. <i>Nano Letters</i> , <b>2019</b> , 19, 7632-7644	11.5	60
87	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , <b>2019</b> , 146, 36-43	10.4	43
86	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , <b>2019</b> , 6, 035007	5.9	20
85	Color Sensitive Response of Graphene/Graphene Quantum Dot Phototransistors. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26490-26497	3.8	8
84	Wafer-Scale Synthesis of Graphene on Sapphire: Toward Fab-Compatible Graphene. <i>Small</i> , <b>2019</b> , 15, e1904906	19.6	32
83	Local tuning of WS <sub>2</sub> photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 183101	3.4	5
82	Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth <b>2019</b> ,		3
81	High-speed double layer graphene electro-absorption modulator on SOI waveguide. <i>Optics Express</i> , <b>2019</b> , 27, 20145-20155	3.3	32

80	Mapping the mechanical properties of a graphene drum at the nanoscale. <i>2D Materials</i> , <b>2019</b> , 6, 025005	5.9	8
79	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. <i>Carbon</i> , <b>2019</b> , 145, 345-351	10.4	9
78	STM study of exfoliated few layer black phosphorus annealed in ultrahigh vacuum. <i>2D Materials</i> , <b>2019</b> , 6, 015005	5.9	13
77	Development of graphene-based ionizing radiation sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 936, 666-668	1.2	0
76	Early stage of CVD graphene synthesis on Ge(001) substrate. <i>Carbon</i> , <b>2018</b> , 134, 183-188	10.4	21
75	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13322-13330	3.6	3
74	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. <i>Nanoscale</i> , <b>2018</b> , 10, 4332-4338	7.7	19
73	A sensitive calorimetric technique to study energy (heat) exchange at the nano-scale. <i>Nanoscale</i> , <b>2018</b> , 10, 10079-10086	7.7	4
72	Peripheral Neuron Survival and Outgrowth on Graphene. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 1	5.1	177
71	The ultrafast dynamics and conductivity of photoexcited graphene at different Fermi energies. <i>Science Advances</i> , <b>2018</b> , 4, eaar5313	14.3	61
70	Probing charge transfer during metal-insulator transitions in graphene-LaAlO <sub>3</sub> /SrTiO <sub>3</sub> systems. <i>APL Materials</i> , <b>2018</b> , 6, 066103	5.7	1
69	Superlubricity of epitaxial monolayer WS <sub>2</sub> on graphene. <i>Nano Research</i> , <b>2018</b> , 11, 5946-5956	10	31
68	Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , <b>2018</b> , 5, 045032	5.9	11
67	Single layer graphene functionalized MEA for enhanced detection of neuronal network development. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 277, 224-233	8.5	10
66	Linear conduction in N-type organic field effect transistors with nanometric channel lengths and graphene as electrodes. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 213301	3.4	5
65	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. <i>2D Materials</i> , <b>2017</b> , 4, 021004	5.9	48
64	Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , <b>2017</b> , 118, 208-214	10.4	9
63	Enhanced electron-phonon coupling in graphene with periodically distorted lattice. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	34

62	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. <i>APL Photonics</i> , <b>2017</b> , 2, 016101	5.2	11
61	Local anodic oxidation on hydrogen-intercalated graphene layers: oxide composition analysis and role of the silicon carbide substrate. <i>Nanotechnology</i> , <b>2017</b> , 28, 105709	3.4	11
60	High Photoresponsivity in Graphene Nanoribbon Field-Effect Transistor Devices Contacted with Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10620-10625	3.8	36
59	Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. <i>Carbon Nanostructures</i> , <b>2017</b> , 113-124	0.6	3
58	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. <i>Nanoscale</i> , <b>2017</b> , 9, 16412-16419	7.7	30
57	Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures <b>2017</b> ,		1
56	Li-intercalated graphene on SiC(0001): An STM study. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	22
55	Ultrafast momentum imaging of pseudospin-flip excitations in graphene. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	14
54	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , <b>2016</b> , 96, 497-502	10.4	36
53	Efficient n -type doping in epitaxial graphene through strong lateral orbital hybridization of Ti adsorbate. <i>Carbon</i> , <b>2016</b> , 109, 300-305	10.4	4
52	Thermal decomposition and chemical vapor deposition: a comparative study of multi-layer growth of graphene on SiC(000-1). <i>MRS Advances</i> , <b>2016</b> , 1, 3667-3672	0.7	6
51	Investigating the CVD Synthesis of Graphene on Ge(100): toward Layer-by-Layer Growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33083-33090	9.5	38
50	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15488-15496	16.4	99
49	Scalable synthesis of WS <sub>2</sub> on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , <b>2016</b> , 3, 031013	5.9	28
48	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	10
47	Anisotropic straining of graphene using micropatterned SiN membranes. <i>APL Materials</i> , <b>2016</b> , 4, 116107	5.7	10
46	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12974-12979	3.8	16
45	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. <i>Optics Express</i> , <b>2016</b> , 24, 15261-73	3.3	7

44	In Vivo Exploration of Robust Implantable Devices Constructed From Biocompatible 3CBiC <b>2016</b> , 207-248		
43	Mini-Dirac cones in the band structure of a copper intercalated epitaxial graphene superlattice. <i>2D Materials</i> , <b>2016</b> , 3, 035003	5.9	19
42	Tunnel and electrostatic coupling in graphene-LaAlO <sub>3</sub> /SrTiO <sub>3</sub> hybrid systems. <i>APL Materials</i> , <b>2016</b> , 4, 066101	5.7	9
41	Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , <b>2016</b> , 9, 1823-1830	10	15
40	MBE growth of self-assisted InAs nanowires on graphene. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 115005	1.8	11
39	Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface <b>2016</b> ,		1
38	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 27493-27499	3.6	3
37	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. <i>2D Materials</i> , <b>2015</b> , 2, 014006	5.9	118
36	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 055007	1.8	5
35	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , <b>2015</b> , 23, 11632-40	3.3	19
34	UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23859-23864	3.8	28
33	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 083901	3.4	25
32	Magneto-optic transmittance modulation observed in a hybrid graphene-split ring resonator terahertz metasurface. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 121104	3.4	35
31	Electroburning of few-layer graphene flakes, epitaxial graphene, and turbostratic graphene discs in air and under vacuum. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 711-9	3	18
30	Silicon Carbide Materials for Biomedical Applications <b>2015</b> , 153-207		0
29	Terahertz detection by epitaxial-graphene field-effect-transistors on silicon carbide. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 131104	3.4	41
28	Revealing the electronic band structure of quasi-free trilayer graphene on SiC(0001). <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1693, 159		
27	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. <i>Carbon</i> , <b>2013</b> , 51, 249-254	10.4	112

26	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	61
25	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11506-11513	3.8	104
24	Engineering the electronic structure of epitaxial graphene by transfer doping and atomic intercalation. <i>MRS Bulletin</i> , <b>2012</b> , 37, 1177-1186	3.2	36
23	SiC In Vitro Biocompatibility <b>2012</b> , 119-152		1
22	Carbon Based Materials on SiC for Advanced Biomedical Applications <b>2012</b> , 431-458		5
21	Large Area Quasi-Free Standing Monolayer Graphene on 3C-SiC(111). <i>Materials Science Forum</i> , <b>2012</b> , 717-720, 617-620	0.4	3
20	Tailoring the Electronic Structure of Epitaxial Graphene on SiC(0001): Transfer Doping and Hydrogen Intercalation. <i>Carbon Nanostructures</i> , <b>2012</b> , 39-49	0.6	1
19	Large-area homogeneous quasifree standing epitaxial graphene on SiC(0001): Electronic and structural characterization. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	95
18	Ambipolar doping in quasifree epitaxial graphene on SiC(0001) controlled by Ge intercalation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	136
17	Large area quasi-free standing monolayer graphene on 3C-SiC(111). <i>Applied Physics Letters</i> , <b>2011</b> , 99, 081904	3.4	54
16	Single-Crystal Silicon Carbide: A Biocompatible and Hemocompatible Semiconductor for Advanced Biomedical Applications. <i>Materials Science Forum</i> , <b>2011</b> , 679-680, 824-830	0.4	32
15	Cellular Interactions on Epitaxial Graphene on SiC (0001) Substrates. <i>Materials Science Forum</i> , <b>2011</b> , 679-680, 831-834	0.4	5
14	Single-crystal Silicon Carbide: A Biocompatible and Hemocompatible Semiconductor for Advanced Biomedical Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1246, 1		10
13	Hydrogen Intercalation below Epitaxial Graphene on SiC(0001). <i>Materials Science Forum</i> , <b>2010</b> , 645-648, 623-628	0.4	7
12	Structural and electronic properties of epitaxial graphene on SiC(0 0 0 1): a review of growth, characterization, transfer doping and hydrogen intercalation. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 374009	3	371
11	Charge neutrality and band-gap tuning of epitaxial graphene on SiC by molecular doping. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	362
10	A Comprehensive Study of Hydrogen Etching on the Major SiC Polytypes and Crystal Orientations. <i>Materials Science Forum</i> , <b>2009</b> , 615-617, 589-592	0.4	40
9	Quasi-free-standing epitaxial graphene on SiC obtained by hydrogen intercalation. <i>Physical Review Letters</i> , <b>2009</b> , 103, 246804	7.4	792



8	Electronic Passivation of 3C-SiC(001) Via Hydrogen Treatment. <i>Electrochemical and Solid-State Letters</i> , <b>2008</b> , 11, H285		14
7	Biocompatibility and wettability of crystalline SiC and Si surfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 5850-3		26
6	Surface studies of hydrogen etched 3C-SiC(001) on Si(001). <i>Applied Physics Letters</i> , <b>2007</b> , 91, 061914	3.4	26
5	Surface morphology and structure of hydrogen etched 3C-SiC(001) on Si(001). <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 911, 2		3
4	Culture of Mammalian Cells on Single Crystal SiC Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 950, 1		11
3	Atomic Structure of Non-Basal-Plane SiC Surfaces: Hydrogen Etching and Surface Phase Transformations. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 911, 1		2
2	SiC pore surfaces: Surface studies of 4H-SiC(1102) and 4H-SiC(10102). <i>Applied Physics Letters</i> , <b>2006</b> , 88, 031915	3.4	14
1	A Flexible, Transparent Chemosensor Integrating an Inkjet-Printed Organic Field-Effect Transistor and a Non-Covalently Functionalized Graphene Electrode. <i>Advanced Materials Technologies</i> , 2100481	6.8	2