

Camilla Coletti

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6288233/camilla-coletti-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Quasi-free-standing epitaxial graphene on SiC obtained by hydrogen intercalation. <i>Physical Review Letters</i> , 2009 , 103, 246804	7.4	792
132	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> , 2010 , 43, 374009	3	371
131	Charge neutrality and band-gap tuning of epitaxial graphene on SiC by molecular doping. <i>Physical Review B</i> , 2010 , 81,	3.3	362
130	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
129	Peripheral Neuron Survival and Outgrowth on Graphene. <i>Frontiers in Neuroscience</i> , 2018 , 12, 1	5.1	177
128	Ambipolar doping in quasifree epitaxial graphene on SiC(0001) controlled by Ge intercalation. <i>Physical Review B</i> , 2011 , 84,	3.3	136
127	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. <i>2D Materials</i> , 2015 , 2, 014006	5.9	118
126	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. <i>Carbon</i> , 2013 , 51, 249-254	10.4	112
125	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11506-11513	3.8	104
124	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15488-15496	16.4	99
123	Large-area homogeneous quasifree standing epitaxial graphene on SiC(0001): Electronic and structural characterization. <i>Physical Review B</i> , 2011 , 84,	3.3	95
122	The ultrafast dynamics and conductivity of photoexcited graphene at different Fermi energies. <i>Science Advances</i> , 2018 , 4, eaar5313	14.3	61
121	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , 2013 , 88,	3.3	61
120	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. <i>Nature Communications</i> , 2020 , 11, 3566	17.4	61
119	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. <i>Nano Letters</i> , 2019 , 19, 7632-7644	11.5	60
118	Large area quasi-free standing monolayer graphene on 3C-SiC(111). <i>Applied Physics Letters</i> , 2011 , 99, 081904	3.4	54
117	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. <i>2D Materials</i> , 2017 , 4, 021004	5.9	48

116	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019 , 146, 36-43	10.4	43
115	Terahertz detection by epitaxial-graphene field-effect-transistors on silicon carbide. <i>Applied Physics Letters</i> , 2015 , 107, 131104	3.4	41
114	A Comprehensive Study of Hydrogen Etching on the Major SiC Polytypes and Crystal Orientations. <i>Materials Science Forum</i> , 2009 , 615-617, 589-592	0.4	40
113	Investigating the CVD Synthesis of Graphene on Ge(100): toward Layer-by-Layer Growth. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33083-33090	9.5	38
112	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016 , 96, 497-502	10.4	36
111	High Photoresponsivity in Graphene Nanoribbon Field-Effect Transistor Devices Contacted with Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10620-10625	3.8	36
110	Engineering the electronic structure of epitaxial graphene by transfer doping and atomic intercalation. <i>MRS Bulletin</i> , 2012 , 37, 1177-1186	3.2	36
109	Direct evidence for efficient ultrafast charge separation in epitaxial WS/graphene heterostructures. <i>Science Advances</i> , 2020 , 6, eaay0761	14.3	35
108	Magneto-optic transmittance modulation observed in a hybrid graphene-split ring resonator terahertz metasurface. <i>Applied Physics Letters</i> , 2015 , 107, 121104	3.4	35
107	Enhanced electron-phonon coupling in graphene with periodically distorted lattice. <i>Physical Review B</i> , 2017 , 95,	3.3	34
106	Wafer-Scale Synthesis of Graphene on Sapphire: Toward Fab-Compatible Graphene. <i>Small</i> , 2019 , 15, e1904906	10.4	32
105	Single-Crystal Silicon Carbide: A Biocompatible and Hemocompatible Semiconductor for Advanced Biomedical Applications. <i>Materials Science Forum</i> , 2011 , 679-680, 824-830	0.4	32
104	High-speed double layer graphene electro-absorption modulator on SOI waveguide. <i>Optics Express</i> , 2019 , 27, 20145-20155	3.3	32
103	Superlubricity of epitaxial monolayer WS ₂ on graphene. <i>Nano Research</i> , 2018 , 11, 5946-5956	10	31
102	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. <i>Nanoscale</i> , 2017 , 9, 16412-16419	7.7	30
101	UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23859-23864	3.8	28
100	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , 2016 , 3, 031013	5.9	28
99	30°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , 2020 , 20, 3313-3319	11.5	27

98	Biocompatibility and wettability of crystalline SiC and Si surfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5850-3		26
97	Surface studies of hydrogen etched 3C-SiC(001) on Si(001). <i>Applied Physics Letters</i> , 2007 , 91, 061914	3.4	26
96	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. <i>Applied Physics Letters</i> , 2015 , 106, 083901	3.4	25
95	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020 , 14, 11190-11204	16.7	24
94	Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021 , 15, 3171-3187	16.7	24
93	Semiconductor to metal transition in two-dimensional gold and its van der Waals heterostack with graphene. <i>Nature Communications</i> , 2020 , 11, 2236	17.4	22
92	Li-intercalated graphene on SiC(0001): An STM study. <i>Physical Review B</i> , 2017 , 96,	3.3	22
91	Graphene Promotes Axon Elongation through Local Stall of Nerve Growth Factor Signaling Endosomes. <i>Nano Letters</i> , 2020 , 20, 3633-3641	11.5	21
90	Early stage of CVD graphene synthesis on Ge(001) substrate. <i>Carbon</i> , 2018 , 134, 183-188	10.4	21
89	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , 2019 , 6, 035007	5.9	20
88	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015 , 23, 11632-40	3.3	19
87	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. <i>Nanoscale</i> , 2018 , 10, 4332-4338	7.7	19
86	Mini-Dirac cones in the band structure of a copper intercalated epitaxial graphene superlattice. <i>2D Materials</i> , 2016 , 3, 035003	5.9	19
85	Electroburning of few-layer graphene flakes, epitaxial graphene, and turbostratic graphene discs in air and under vacuum. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 711-9	3	18
84	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12974-12979	3.8	16
83	Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , 2016 , 9, 1823-1830	10	15
82	Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020 , 499, 143923	12.3	15
81	Synthesis of Large-Scale Monolayer 1T'FMoTe and Its Stabilization Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021 , 15, 4213-4225	16.7	15

80	Ultrafast momentum imaging of pseudospin-flip excitations in graphene. <i>Physical Review B</i> , 2017 , 96,	3.3	14
79	Electronic Passivation of 3C-SiC(001) Via Hydrogen Treatment. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H285		14
78	SiC pore surfaces: Surface studies of 4HβSiC(1102) and 4HβSiC(10102). <i>Applied Physics Letters</i> , 2006 , 88, 031915	3.4	14
77	High-quality electrical transport using scalable CVD graphene. <i>2D Materials</i> , 2020 , 7, 041003	5.9	14
76	STM study of exfoliated few layer black phosphorus annealed in ultrahigh vacuum. <i>2D Materials</i> , 2019 , 6, 015005	5.9	13
75	Photo thermal effect graphene detector featuring 105 Gbit s NRZ and 120 Gbit s PAM4 direct detection. <i>Nature Communications</i> , 2021 , 12, 806	17.4	13
74	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. <i>Scientific Reports</i> , 2020 , 10, 6882	4.9	12
73	Edge Defects Promoted Oxidation of Monolayer WS2 Synthesized on Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9035-9044	3.8	12
72	Epitaxial Growth of Wafer-Scale Molybdenum Disulfide/Graphene Heterostructures by Metal-Organic Vapor-Phase Epitaxy and Their Application in Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44335-44344	9.5	12
71	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. <i>APL Photonics</i> , 2017 , 2, 016101	5.2	11
70	Local anodic oxidation on hydrogen-intercalated graphene layers: oxide composition analysis and role of the silicon carbide substrate. <i>Nanotechnology</i> , 2017 , 28, 105709	3.4	11
69	Culture of Mammalian Cells on Single Crystal SiC Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 950, 1		11
68	MBE growth of self-assisted InAs nanowires on graphene. <i>Semiconductor Science and Technology</i> , 2016 , 31, 115005	1.8	11
67	Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , 2018 , 5, 045032	5.9	11
66	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016 , 94,	3.3	10
65	Anisotropic straining of graphene using micropatterned SiN membranes. <i>APL Materials</i> , 2016 , 4, 116107	5.7	10
64	Single-crystal Silicon Carbide: A Biocompatible and Hemocompatible Semiconductor for Advanced Biomedical Applications. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1246, 1		10
63	Single layer graphene functionalized MEA for enhanced detection of neuronal network development. <i>Sensors and Actuators B: Chemical</i> , 2018 , 277, 224-233	8.5	10

62	Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , 2017 , 118, 208-214	10.4	9
61	Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. <i>APL Materials</i> , 2016 , 4, 066101	5.7	9
60	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. <i>Carbon</i> , 2019 , 145, 345-351	10.4	9
59	Color Sensitive Response of Graphene/Graphene Quantum Dot Phototransistors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26490-26497	3.8	8
58	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021 ,	16.7	8
57	Mapping the mechanical properties of a graphene drum at the nanoscale. <i>2D Materials</i> , 2019 , 6, 025005	5.9	8
56	Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020 , 7, 014002	5.9	8
55	Hydrogen Intercalation below Epitaxial Graphene on SiC(0001). <i>Materials Science Forum</i> , 2010 , 645-648, 623-628	0.4	7
54	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. <i>Optics Express</i> , 2016 , 24, 15261-73	3.3	7
53	Optical dielectric function of two-dimensional WS ₂ on epitaxial graphene. <i>2D Materials</i> , 2020 , 7, 025024	5.9	6
52	Thermal decomposition and chemical vapor deposition: a comparative study of multi-layer growth of graphene on SiC(000-1). <i>MRS Advances</i> , 2016 , 1, 3667-3672	0.7	6
51	Survival of Floquet-Bloch States in the Presence of Scattering. <i>Nano Letters</i> , 2021 , 21, 5028-5035	11.5	6
50	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015 , 30, 055007	1.8	5
49	Local tuning of WS ₂ photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. <i>Applied Physics Letters</i> , 2019 , 115, 183101	3.4	5
48	Carbon Based Materials on SiC for Advanced Biomedical Applications 2012 , 431-458		5
47	Cellular Interactions on Epitaxial Graphene on SiC (0001) Substrates. <i>Materials Science Forum</i> , 2011 , 679-680, 831-834	0.4	5
46	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021 , 177, 282-290	10.4	5
45	Linear conduction in N-type organic field effect transistors with nanometric channel lengths and graphene as electrodes. <i>Applied Physics Letters</i> , 2018 , 112, 213301	3.4	5

44	Submicron Size Schottky Junctions on As-Grown Monolayer Epitaxial Graphene on Ge(100): A Low-Invasive Scanned-Probe-Based Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35079-35087	9.5	4
43	A sensitive calorimetric technique to study energy (heat) exchange at the nano-scale. <i>Nanoscale</i> , 2018 , 10, 10079-10086	7.7	4
42	Efficient n -type doping in epitaxial graphene through strong lateral orbital hybridization of Ti adsorbate. <i>Carbon</i> , 2016 , 109, 300-305	10.4	4
41	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021 , 32, 155504	3.4	4
40	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures.. <i>Physical Review Letters</i> , 2021 , 127, 276401	7.4	4
39	Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. <i>Carbon Nanostructures</i> , 2017 , 113-124	0.6	3
38	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13322-13330	3.6	3
37	Large Area Quasi-Free Standing Monolayer Graphene on 3C-SiC(111). <i>Materials Science Forum</i> , 2012 , 717-720, 617-620	0.4	3
36	Surface morphology and structure of hydrogen etched 3C-SiC(001) on Si(001). <i>Materials Research Society Symposia Proceedings</i> , 2006 , 911, 2		3
35	Ultra-clean high-mobility graphene on technologically relevant substrates.. <i>Nanoscale</i> , 2022 ,	7.7	3
34	Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth 2019 ,		3
33	Effect of Chemical Vapor Deposition WS on Viability and Differentiation of SH-SY5Y Cells. <i>Frontiers in Neuroscience</i> , 2020 , 14, 592502	5.1	3
32	Evaluating the use of graphene electrodes in sub-micrometric, high-frequency n-type organic transistors. <i>Synthetic Metals</i> , 2021 , 273, 116683	3.6	3
31	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
30	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27493-27499	3.6	3
29	Resolving mobility anisotropy in quasi-free-standing epitaxial graphene by terahertz optical Hall effect. <i>Carbon</i> , 2021 , 172, 248-259	10.4	3
28	Local Optical Properties in CVD-Grown Monolayer WS Flakes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16059-16065	3.8	3
27	Atomic Structure of Non-Basal-Plane SiC Surfaces: Hydrogen Etching and Surface Phase Transformations. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 911, 1		2

26	Stress-strain in electron-beam activated polymeric micro-actuators. <i>Journal of Applied Physics</i> , 2020 , 128, 115104	2.5	2
25	Thermal stability of monolayer WS ₂ in BEOL conditions. <i>JPhys Materials</i> , 2021 , 4, 024002	4.2	2
24	A Flexible, Transparent Chemosensor Integrating an Inkjet-Printed Organic Field-Effect Transistor and a Non-Covalently Functionalized Graphene Electrode. <i>Advanced Materials Technologies</i> , 2021 , 2100481	6.8	2
23	Ultrafast hot carrier transfer in WS ₂ /graphene large area heterostructures. <i>Npj 2D Materials and Applications</i> , 2022 , 6,	8.8	2
22	Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. <i>APL Materials</i> , 2018 , 6, 066103	5.7	1
21	Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures 2017 ,		1
20	SiC In Vitro Biocompatibility 2012 , 119-152		1
19	Tailoring the Electronic Structure of Epitaxial Graphene on SiC(0001): Transfer Doping and Hydrogen Intercalation. <i>Carbon Nanostructures</i> , 2012 , 39-49	0.6	1
18	Ultrafast Charge Separation in Bilayer WS ₂ /Graphene Heterostructure Revealed by Time- and Angle-Resolved Photoemission Spectroscopy. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	1
17	Black Phosphorus n-Type Doping by Cu: A Microscopic Surface Investigation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13477-13484	3.8	1
16	Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface 2016 ,		1
15	Antenna-Coupled Graphene Field-Effect Transistors as a Terahertz Imaging Array. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 70-78	3.4	1
14	Stacking Relations and Substrate Interaction of Graphene on Copper Foil. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002025	4.6	1
13	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021 , 119, 050501	3.4	1
12	Tuning the Doping of Epitaxial Graphene on a Conventional Semiconductor via Substrate Surface Reconstruction. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1262-1267	6.4	1
11	Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	1
10	Silicon Carbide Materials for Biomedical Applications 2015 , 153-207		0
9	Temperature-Dependent Bending Rigidity of AB-Stacked Bilayer Graphene.. <i>Physical Review Letters</i> , 2021 , 127, 266102	7.4	0

8	Modeling Photodetection at the Graphene/Ag ₂ S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100120	2.5	○
7	Development of graphene-based ionizing radiation sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 936, 666-668	1.2	○
6	Critical View on Buffer Layer Formation and Monolayer Graphene Properties in High-Temperature Sublimation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1891	2.6	○
5	Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , 2021 , 3, 1352-1361	5.1	○
4	Optical Response of CVD-Grown ML-WS ₂ Flakes on an Ultra-Dense Au NP Plasmonic Array. <i>Chemosensors</i> , 2022 , 10, 120	4	○
3	Revealing the electronic band structure of quasi-free trilayer graphene on SiC(0001). <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1693, 159		
2	In Vivo Exploration of Robust Implantable Devices Constructed From Biocompatible 3C-BiC 2016 , 207-248		
1	Graphene on SiC 2022 , 65-97		