

C Coletti

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,397
citations

516710

16
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and electronic properties of epitaxial graphene on SiC(0001): a review of growth, characterization, transfer doping and hydrogen intercalation. Journal Physics D: Applied Physics, 2010, 43, 374009.	2.8	437
2	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006.	4.4	143
3	Wafer-Scale Integration of Graphene-Based Photonic Devices. ACS Nano, 2021, 15, 3171-3187.	14.6	75
4	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. 2D Materials, 2017, 4, 021004.	4.4	71
5	Direct evidence for efficient ultrafast charge separation in epitaxial WS ₂ /graphene heterostructures. Science Advances, 2020, 6, eaay0761.	10.3	64
6	Superlubricity of epitaxial monolayer WS ₂ on graphene. Nano Research, 2018, 11, 5946-5956.	10.4	58
7	High-speed double layer graphene electro-absorption modulator on SOI waveguide. Optics Express, 2019, 27, 20145.	3.4	57
8	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. ACS Nano, 2020, 14, 11190-11204.	14.6	48
9	A Comprehensive Study of Hydrogen Etching on the Major SiC Polytypes and Crystal Orientations. Materials Science Forum, 0, 615-617, 589-592.	0.3	46
10	Engineering the electronic structure of epitaxial graphene by transfer doping and atomic intercalation. MRS Bulletin, 2012, 37, 1177-1186.	3.5	44
11	Nano-Scale Corrugations in Graphene: A Density Functional Theory Study of Structure, Electronic Properties and Hydrogenation. Journal of Physical Chemistry C, 2015, 119, 7900-7910.	3.1	39
12	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. Nanoscale, 2017, 9, 16412-16419.	5.6	39
13	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. 2D Materials, 2016, 3, 031013.	4.4	36
14	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. Nanoscale, 2018, 10, 4332-4338.	5.6	28
15	Millimetre-long transport of photogenerated carriers in topological insulators. Nature Communications, 2019, 10, 5723.	12.8	22
16	Edge Defects Promoted Oxidation of Monolayer WS ₂ Synthesized on Epitaxial Graphene. Journal of Physical Chemistry C, 2020, 124, 9035-9044.	3.1	22
17	Ultra-clean high-mobility graphene on technologically relevant substrates. Nanoscale, 2022, 14, 2167-2176.	5.6	22
18	Deterministic direct growth of WS ₂ on CVD graphene arrays. 2D Materials, 2020, 7, 014002.	4.4	17

#	ARTICLE	IF	CITATIONS
19	Ultrafast hot carrier transfer in WS ₂ /graphene large area heterostructures. Npj 2D Materials and Applications, 2022, 6, .	7.9	17
20	Dirac lines and loop at the Fermi level in the time-reversal symmetry breaking superconductor LaNiGa ₂ . Communications Physics, 2022, 5, . Electronic structure and topology across cm^3	5.3	15
21	in the magnetic Weyl semimetal CoS_2 . Physical Review B, 2021, 104, .	3.2	14
22	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures. Physical Review Letters, 2021, 127, 276401.	7.8	13
23	Effect of Chemical Vapor Deposition WS ₂ on Viability and Differentiation of SH-SY5Y Cells. Frontiers in Neuroscience, 2020, 14, 592502.	2.8	12
24	Optical dielectric function of two-dimensional WS ₂ on epitaxial graphene. 2D Materials, 2020, 7, 025024.	4.4	10
25	Thermal decomposition and chemical vapor deposition: a comparative study of multi-layer growth of graphene on SiC(000-1). MRS Advances, 2016, 1, 3667-3672.	0.9	9
26	Local tuning of WS ₂ photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. Applied Physics Letters, 2019, 115, .	3.3	9
27	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. Physical Chemistry Chemical Physics, 2018, 20, 13322-13330.	2.8	8
28	Thermal stability of monolayer WS ₂ in BEOL conditions. JPhys Materials, 2021, 4, 024002.	4.2	7
29	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. Applied Physics Letters, 2021, 119, 050501.	3.3	7
30	Three interaction energy scales in the single-layer high- T _c cuprate HgBa ₂ CuO ₄ + δ . Physical Review B, 2020, 102, .	3.2	4
31	Fab-compatible Graphene: Wafer-scale Synthesis of Graphene on Sapphire: Toward Fab-compatible Graphene (Small 50/2019). Small, 2019, 15, 1970273.	10.0	2
32	Nanosecond dynamics in intrinsic topological insulator Bi ₂ xSbxSe ₃ revealed by time-resolved optical reflectivity. Physical Review B, 2021, 103, .	3.2	1
33	Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. Nanoscale Advances, 2021, 3, 1352-1361.	4.6	1