Andrew J Pollard

List of Publications by Year
in descending order

38 papers	2,215 citations	361045 20 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	4292 citing authors

#	Article	IF	Citations
1	Effect of disorder on Raman scattering of single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	1.1	553
2	Multifunctional Nanoprobes for Nanoscale Chemical Imaging and Localized Chemical Delivery at Surfaces and Interfaces. Angewandte Chemie - International Edition, 2011, 50, 9638-9642.	7.2	256
3	Antiviral surfaces and coatings and their mechanisms of action. Communications Materials, 2021, 2, .	2.9	149
4	Nucleation Control for Large, Single Crystalline Domains of Monolayer Hexagonal Boron Nitride via Si-Doped Fe Catalysts. Nano Letters, 2015, 15, 1867-1875.	4.5	139
5	Understanding and Controlling Cu-Catalyzed Graphene Nucleation: The Role of Impurities, Roughness, and Oxygen Scavenging. Chemistry of Materials, 2016, 28, 8905-8915.	3.2	128
6	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. Angewandte Chemie - International Edition, 2010, 49, 1794-1799.	7.2	108
7	Unlocking thermogravimetric analysis (TGA) in the fight against â€œFake grapheneâ€•materials. Carbon, 2021, 179, 505-513.	5.4	88
8	Nanoscale chemical imaging using tip-enhanced Raman spectroscopy. Nature Protocols, 2019, 14, 1169-1193.	5.5	86
9	Nanoscale chemical imaging of solidâ€“liquid interfaces using tip-enhanced Raman spectroscopy. Nanoscale, 2018, 10, 1815-1824.	2.8	68
10	In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. Nano Letters, 2016, 16, 6196-6206.	4.5	62
11	Quantitative characterization of defect size in graphene using Raman spectroscopy. Applied Physics Letters, 2014, 105, .	1.5	61
12	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. Nano Letters, 2020, 20, 3411-3419.	4.5	59
13	Covalent Carbene Functionalization of Graphene: Toward Chemical Band-Gap Manipulation. ACS Applied Materials & Interfaces, 2016, 8, 4870-4877.	4.0	49
14	How Does Graphene Grow? Easy Access to Wellâ€Ordered Graphene Films. Small, 2009, 5, 2291-2296.	5.2	40
15	High-Resolution Electrochemical and Topographical Imaging Using Batch-Fabricated Cantilever Probes. Analytical Chemistry, 2014, 86, 5143-5149.	3.2	39
16	Probing individual point defects in graphene via near-field Raman scattering. Nanoscale, 2015, 7, 19413-19418.	2.8	35
17	Determining the Level and Location of Functional Groups on Few-Layer Graphene and Their Effect on the Mechanical Properties of Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 13481-13493.	4.0	27
18	Structural, chemical and electrical characterisation of conductive graphene-polymer composite films. Applied Surface Science, 2017, 403, 403-412.	3.1	25

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19	Removal of Organic Contamination from Graphene with a Controllable Mass-Selected Argon Gas Cluster Ion Beam. Journal of Physical Chemistry C, 2015, 119, 17836-17841.	1.5	24
20	Integrated Wafer Scale Growth of Single Crystal Metal Films and High Quality Graphene. ACS Nano, 2020, 14, 13593-13601.	7.3	23
21	The Role and Control of Residual Bulk Oxygen in the Catalytic Growth of 2D Materials. Journal of Physical Chemistry C, 2019, 123, 16257-16267.	1.5	21
22	The importance of international standards for the graphene community. Nature Reviews Physics, 2021, 3, 233-235.	11.9	19
23	Reactive intercalation and oxidation at the buried graphene-germanium interface. APL Materials, 2019, 7, .	2.2	16
24	Gas physisorption measurements as a quality control tool for the properties of graphene/graphite powders. Carbon, 2020, 167, 585-595.	5.4	16
25	Terminology: the first step towards international standardisation of graphene and related 2D materials. Journal of Materials Science, 2017, 52, 13685-13688.	1.7	14
26	Physicochemical characterisation of reduced graphene oxide for conductive thin films. RSC Advances, 2018, 8, 37540-37549.	1.7	14
27	Nanoscale characterization of plasma functionalized graphitic flakes using tip-enhanced Raman spectroscopy. Journal of Chemical Physics, 2020, 153, 184708.	1.2	14
28	Metrology for graphene and 2D materials. Measurement Science and Technology, 2016, 27, 092001.	1.4	13
29	Oxidising and carburising catalyst conditioning for the controlled growth and transfer of large crystal monolayer hexagonal boron nitride. 2D Materials, 2020, 7, 024005.	2.0	13
30	Understanding metal organic chemical vapour deposition of monolayer WS₂: the enhancing role of Au substrate for simple organosulfur precursors. Nanoscale, 2020, 12, 22234-22244.	2.8	13
31	Mechanical properties of the hollow-wall graphene gyroid lattice. Acta Materialia, 2020, 201, 254-265.	3.8	10
32	Using nuclear magnetic resonance proton relaxation to probe the surface chemistry of carbon 2D materials. Nanoscale, 2021, 13, 6389-6393.	2.8	8
33	Rapid monitoring of graphene exfoliation using NMR proton relaxation. Nanoscale, 2021, 13, 14518-14524.	2.8	7
34	International interlaboratory comparison of Raman spectroscopic analysis of CVD-grown graphene. 2D Materials, 2022, 9, 035010.	2.0	7
35	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. ACS Applied Nano Materials, 2021, 4, 5187-5197.	2.4	5
36	Understanding the bonding mechanisms of organic molecules deposited on graphene for biosensing applications. Journal of Chemical Physics, 2021, 155, 174703.	1.2	3

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37	Development of a Novel Combined Scanning Electrochemical Microscope (SECM) and Scanning Ion-Conductance Microscope (SICM) Probe for Soft Sample Imaging. Materials Research Society Symposia Proceedings, 2012, 1422, 13.	0.1	2
38	Metrology for Graphene and 2-D Materials. , 2015, , .		1