Alex van der Ham

List of Publications by Year
in descending order

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38 papers	2,694 citations	430874 18 h-index	345221 36 g-index
43 all docs	43 docs citations	43 times ranked	4521 citing authors

#	Article	IF	Citations
1	DNA Translocation through Graphene Nanopores. Nano Letters, 2010, 10, 3163-3167.	9.1	908
2	DNA sequencing with nanopores. Nature Biotechnology, 2012, 30, 326-328.	17.5	300
3	Atomic-Scale Electron-Beam Sculpting of Near-Defect-Free Graphene Nanostructures. Nano Letters, 2011, 11, 2247-2250.	9.1	246
4	Sensing at the Surface of Graphene Fieldâ€Effect Transistors. Advanced Materials, 2017, 29, 1603610.	21.0	230
5	Single molecule detection with graphene and other two-dimensional materials: nanopores and beyond. Chemical Society Reviews, 2016, 45, 476-493.	38.1	150
6	Power generation by reverse electrodialysis in a single-layer nanoporous membrane made from coreâ€“rim polycyclic aromatic hydrocarbons. Nature Nanotechnology, 2020, 15, 307-312.	31.5	127
7	Chemistry at the Edge of Graphene. ChemPhysChem, 2016, 17, 785-801.	2.1	120
8	Contact angle measurement of free-standing square-millimeter single-layer graphene. Nature Communications, 2018, 9, 4185.	12.8	102
9	Ultrasensitive Fieldâ€Effect Biosensors Enabled by the Unique Electronic Properties of Graphene. Small, 2020, 16, e1902820.	10.0	75
10	Hydrophilicity of Graphene in Water through Transparency to Polar and Dispersive Interactions. Advanced Materials, 2018, 30, 1703274.	21.0	61
11	Quantum and electrochemical interplays in hydrogenated graphene. Nature Communications, 2018, 9, 793.	12.8	43
12	Contactless Spin Switch Sensing by Chemoâ€Electric Gating of Graphene. Advanced Materials, 2020, 32, e1903575.	21.0	32
13	Molecular Caging of Graphene with Cyclohexane: Transfer and Electrical Transport. ACS Central Science, 2016, 2, 904-909.	11.3	27
14	Graphene Liquid Cells Assembled through Loopâ€Assisted Transfer Method and Located with Correlated Lightâ€Electron Microscopy. Advanced Functional Materials, 2020, 30, 1904468.	14.9	24
15	Ultrasensitive Ethene Detector Based on a Grapheneâ€“Copper(I) Hybrid Material. Nano Letters, 2017, 17, 7980-7988.	9.1	23
16	Wetting of water on graphene nanopowders of different thicknesses. Applied Physics Letters, 2018, 112, .	3.3	20
17	Liquids relax and unify strain in graphene. Nature Communications, 2020, 11, 898.	12.8	20
18	Graphene-stabilized lipid monolayer heterostructures: a novel biomembrane superstructure. Nanoscale, 2016, 8, 18646-18653.	5.6	18

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19	Predoped Oxygenated Defects Activate Nitrogen-Doped Graphene for the Oxygen Reduction Reaction. ACS Catalysis, 2022, 12, 173-182.	11.2	17
20	Dielectricâ€Modulated Biosensing with Ultrahighâ€Frequencyâ€Operated Graphene Fieldâ€Effect Transistors. Advanced Materials, 2022, 34, e2106666.	21.0	16
21	Hybrid cold and hot-wall reaction chamber for the rapid synthesis of uniform graphene. Carbon, 2017, 118, 438-442.	10.3	15
22	Dynamic Tunneling Junctions at the Atomic Intersection of Two Twisted Graphene Edges. Nano Letters, 2018, 18, 2505-2510.	9.1	15
23	Zeroâ€Depth Interfacial Nanopore Capillaries. Advanced Materials, 2018, 30, 1703602.	21.0	15
24	Computational and NMR Studies on the Complexation of Lithium Ion to 8â€Crownâ€4. ChemPhysChem, 2019, 20, 2103-2109.	2.1	15
25	Macroscopic and Microscopic Wettability of Graphene. Langmuir, 2021, 37, 4049-4055.	3.5	15
26	Selective ion sieving through arrays of sub-nanometer nanopores in chemically tunable 2D carbon membranes. Nanoscale, 2019, 11, 20785-20791.	5.6	14
27	Facile and Ultraclean Graphene-on-Glass Nanopores by Controlled Electrochemical Etching. ACS Sensors, 2020, 5, 2317-2325.	7.8	11
28	Encapsulation of Graphene in the Hydrophobic Core of a Lipid Bilayer. Langmuir, 2020, 36, 14478-14482.	3.5	8
29	Lateral Non-covalent Clamping of Graphene at the Edges Using a Lipid Scaffold. ACS Applied Materials & Interfaces, 2018, 10, 11328-11332.	8.0	6
30	Reversible hydrogenation restores defected graphene to graphene. Science China Chemistry, 2021, 64, 1047-1056.	8.2	6
31	A Threeâ€Step Synthesis of 4Hâ€Cyclopenta[def]phenanthrene from Pyrene. European Journal of Organic Chemistry, 2021, 2021, 2013-2017.	2.4	6
32	Rupture index: A quantitative measure of sub-micrometer cracks in graphene. Carbon, 2017, 118, 556-560.	10.3	4
33	Graphene: Hydrophilicity of Graphene in Water through Transparency to Polar and Dispersive Interactions (Adv. Mater. 6/2018). Advanced Materials, 2018, 30, 1870041.	21.0	2
34	Supramolecular Multilayered Templates for Fabricating Nanometer-Precise Spacings: Implications for the Next-Generation of Devices Integrating Nanogap/Nanochannel Components. ACS Applied Nano Materials, 2020, 3, 10586-10590.	5.0	1
35	Dielectricâ€Modulated Biosensing with Ultrahighâ€Frequencyâ€Operated Graphene Fieldâ€Effect Transistors (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	1
36	Freestanding non-covalent thin films of the propeller-shaped polycyclic aromatic hydrocarbon decacyclene. Nature Communications, 2022, 13, 1920.	12.8	1

#	Article	IF	Citations
37	Inert Mask Lithography of Edge Narrowed Graphene Nanoribbons Directly Contacted to Metallic Electrodes. Advanced Materials Interfaces, 2021, 8, 2100293.	3.7	0
38	Growth of Graphene on a Liquified Copper Skin at Submelting Temperatures. ACS Materials Au, 2022, 2, 79-84.	6.0	0