

Alex van der Ham

List of Publications by Year in descending order

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430874

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times ranked

4521
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors. <i>Advanced Materials</i> , 2022, 34, e2106666.	21.0	16
2	Growth of Graphene on a Liquefied Copper Skin at Submelting Temperatures. <i>ACS Materials Au</i> , 2022, 2, 79-84.	6.0	0
3	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	1
4	Freestanding non-covalent thin films of the propeller-shaped polycyclic aromatic hydrocarbon decacyclene. <i>Nature Communications</i> , 2022, 13, 1920.	12.8	1
5	Predoped Oxygenated Defects Activate Nitrogen-Doped Graphene for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2022, 12, 173-182.	11.2	17
6	Macroscopic and Microscopic Wettability of Graphene. <i>Langmuir</i> , 2021, 37, 4049-4055.	3.5	15
7	Reversible hydrogenation restores defected graphene to graphene. <i>Science China Chemistry</i> , 2021, 64, 1047-1056.	8.2	6
8	A Three-Step Synthesis of 4-Hydrocyclopenta[def]phenanthrene from Pyrene. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2013-2017.	2.4	6
9	Inert Mask Lithography of Edge Narrowed Graphene Nanoribbons Directly Contacted to Metallic Electrodes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100293.	3.7	0
10	Ultrasensitive Field-Effect Biosensors Enabled by the Unique Electronic Properties of Graphene. <i>Small</i> , 2020, 16, e1902820.	10.0	75
11	Encapsulation of Graphene in the Hydrophobic Core of a Lipid Bilayer. <i>Langmuir</i> , 2020, 36, 14478-14482.	3.5	8
12	Supramolecular Multilayered Templates for Fabricating Nanometer-Precise Spacings: Implications for the Next-Generation of Devices Integrating Nanogap/Nanochannel Components. <i>ACS Applied Nano Materials</i> , 2020, 3, 10586-10590.	5.0	1
13	Facile and Ultraclean Graphene-on-Glass Nanopores by Controlled Electrochemical Etching. <i>ACS Sensors</i> , 2020, 5, 2317-2325.	7.8	11
14	Power generation by reverse electrodialysis in a single-layer nanoporous membrane made from core-rim polycyclic aromatic hydrocarbons. <i>Nature Nanotechnology</i> , 2020, 15, 307-312.	31.5	127
15	Graphene Liquid Cells Assembled through Loop-Assisted Transfer Method and Located with Correlated Light-Electron Microscopy. <i>Advanced Functional Materials</i> , 2020, 30, 1904468.	14.9	24
16	Liquids relax and unify strain in graphene. <i>Nature Communications</i> , 2020, 11, 898.	12.8	20
17	Contactless Spin Switch Sensing by Chemical Electric Gating of Graphene. <i>Advanced Materials</i> , 2020, 32, e1903575.	21.0	32
18	Computational and NMR Studies on the Complexation of Lithium Ion to 8-Crown-4. <i>ChemPhysChem</i> , 2019, 20, 2103-2109.	2.1	15

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19	Selective ion sieving through arrays of sub-nanometer nanopores in chemically tunable 2D carbon membranes. <i>Nanoscale</i> , 2019, 11, 20785-20791.	5.6	14
20	Lateral Non-covalent Clamping of Graphene at the Edges Using a Lipid Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11328-11332.	8.0	6
21	Graphene: Hydrophilicity of Graphene in Water through Transparency to Polar and Dispersive Interactions (<i>Adv. Mater.</i> 6/2018). <i>Advanced Materials</i> , 2018, 30, 1870041.	21.0	2
22	Quantum and electrochemical interplays in hydrogenated graphene. <i>Nature Communications</i> , 2018, 9, 793.	12.8	43
23	Dynamic Tunneling Junctions at the Atomic Intersection of Two Twisted Graphene Edges. <i>Nano Letters</i> , 2018, 18, 2505-2510.	9.1	15
24	Wetting of water on graphene nanopowders of different thicknesses. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	20
25	Zero-Depth Interfacial Nanopore Capillaries. <i>Advanced Materials</i> , 2018, 30, 1703602.	21.0	15
26	Hydrophilicity of Graphene in Water through Transparency to Polar and Dispersive Interactions. <i>Advanced Materials</i> , 2018, 30, 1703274.	21.0	61
27	Contact angle measurement of free-standing square-millimeter single-layer graphene. <i>Nature Communications</i> , 2018, 9, 4185.	12.8	102
28	Hybrid cold and hot-wall reaction chamber for the rapid synthesis of uniform graphene. <i>Carbon</i> , 2017, 118, 438-442.	10.3	15
29	Rupture index: A quantitative measure of sub-micrometer cracks in graphene. <i>Carbon</i> , 2017, 118, 556-560.	10.3	4
30	Ultrasensitive Ethene Detector Based on a Graphene-Copper(I) Hybrid Material. <i>Nano Letters</i> , 2017, 17, 7980-7988.	9.1	23
31	Sensing at the Surface of Graphene Field-Effect Transistors. <i>Advanced Materials</i> , 2017, 29, 1603610.	21.0	230
32	Molecular Caging of Graphene with Cyclohexane: Transfer and Electrical Transport. <i>ACS Central Science</i> , 2016, 2, 904-909.	11.3	27
33	Graphene-stabilized lipid monolayer heterostructures: a novel biomembrane superstructure. <i>Nanoscale</i> , 2016, 8, 18646-18653.	5.6	18
34	Chemistry at the Edge of Graphene. <i>ChemPhysChem</i> , 2016, 17, 785-801.	2.1	120
35	Single molecule detection with graphene and other two-dimensional materials: nanopores and beyond. <i>Chemical Society Reviews</i> , 2016, 45, 476-493.	38.1	150
36	DNA sequencing with nanopores. <i>Nature Biotechnology</i> , 2012, 30, 326-328.	17.5	300

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37	Atomic-Scale Electron-Beam Sculpting of Near-Defect-Free Graphene Nanostructures. Nano Letters, 2011, 11, 2247-2250.	9.1	246
38	DNA Translocation through Graphene Nanopores. Nano Letters, 2010, 10, 3163-3167.	9.1	908