

Hannah Catherine Nerl

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

25,373
citations

31
h-index

53
g-index

53
ext. papers

28,307
ext. citations

15.3
avg, IF

6.48
L-index

#	Paper	IF	Citations
53	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , 2011 , 331, 568-71	33.3	5221
52	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , 2008 , 3, 563-8	28.7	4715
51	Liquid Exfoliation of Layered Materials. <i>Science</i> , 2013 , 340, 1226419-1226419	33.3	2604
50	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
49	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3611-20	16.4	1821
48	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014 , 13, 624-30	27	1627
47	Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy. <i>Nature</i> , 2010 , 464, 571-4	50.4	958
46	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , 2011 , 23, 3944-8	24	888
45	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
44	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). <i>Chemistry of Materials</i> , 2017 , 29, 4848-4856	9.6	652
43	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , 2017 , 29, 1702678	24	538
42	Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , 2019 , 10, 1795	17.4	407
41	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. <i>Nature Communications</i> , 2014 , 5, 4576	17.4	350
40	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. <i>Advanced Functional Materials</i> , 2018 , 28, 1705506	15.6	322
39	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017 , 356, 69-73	33.3	301
38	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008 , 20, 1876-1881	24	299
37	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , 2015 , 9, 6018-30	16.7	232

36	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2014 , 26, 1751-1763	9.6	231
35	Graphene and MXene-based transparent conductive electrodes and supercapacitors. <i>Energy Storage Materials</i> , 2019 , 16, 102-125	19.4	217
34	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High-Capacity, Long Lifetime Li-S Batteries. <i>Advanced Science</i> , 2018 , 5, 1800502	13.6	147
33	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , 2015 , 27, 3483-3493	9.6	144
32	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2020 , 30, 2000842	15.6	132
31	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. <i>Nanoscale</i> , 2011 , 3, 2627-35	7.7	98
30	Liquid exfoliation of interlayer spacing-tunable 2D vanadium oxide nanosheets: High capacity and rate handling Li-ion battery cathodes. <i>Nano Energy</i> , 2017 , 39, 151-161	17.1	91
29	Effect of percolation on the capacitance of supercapacitor electrodes prepared from composites of manganese dioxide nanoplatelets and carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 9567-79	16.7	82
28	Covalently functionalized hexagonal boron nitride nanosheets by nitrene addition. <i>Chemistry - A European Journal</i> , 2012 , 18, 10808-12	4.8	64
27	Production of Ni(OH) ₂ nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11046-11059	13	60
26	Enabling Flexible Heterostructures for Li-Ion Battery Anodes Based on Nanotube and Liquid-Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. <i>Small</i> , 2017 , 13, 1701677	11	57
25	Probing the local nature of excitons and plasmons in few-layer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	41
24	Unusual stacking variations in liquid-phase exfoliated transition metal dichalcogenides. <i>ACS Nano</i> , 2014 , 8, 3690-9	16.7	36
23	Imaging methods for determining uptake and toxicity of carbon nanotubes in vitro and in vivo. <i>Nanomedicine</i> , 2011 , 6, 849-65	5.6	31
22	Liquid phase exfoliation of MoO ₂ nanosheets for lithium ion battery applications. <i>Nanoscale Advances</i> , 2019 , 1, 1560-1570	5.1	29
21	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , 2021 , 43, 99-131	21.8	29
20	Insights into Chemical Dynamics and Their Impact on the Reactivity of Pt Nanoparticles during CO Oxidation by Operando TEM. <i>ACS Catalysis</i> , 2020 , 10, 3183-3193	13.1	23
19	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. <i>Energy and Environmental Science</i> , 2020 , 13, 2124-2133	35.4	20

18	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. <i>ACS Nano</i> , 2020 , 14, 13418-13432	16.7	20
17	Growth of large sized two-dimensional MoS flakes in aqueous solution. <i>Nanoscale</i> , 2017 , 9, 6575-6580	7.7	15
16	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , 2016 , 6, 65299-65310	3.7	12
15	High mobility solution processed MoS ₂ thin film transistors. <i>Solid-State Electronics</i> , 2019 , 158, 75-84	1.7	11
14	Two-dimensional material inks. <i>Nature Reviews Materials</i> ,	73.3	11
13	Field-Dependent Electrical and Thermal Transport in Polycrystalline WSe ₂ . <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701161	4.6	9
12	Long-chain amine-templated synthesis of gallium sulfide and gallium selenide nanotubes. <i>Nanoscale</i> , 2016 , 8, 11698-706	7.7	9
11	Versatile Homebuilt Gas Feed and Analysis System for TEM of Catalysts at Work. <i>Microscopy and Microanalysis</i> , 2020 , 26, 220-228	0.5	7
10	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. <i>Advanced Functional Materials</i> , 2019 , 29, 1903120	15.6	7
9	Efficient fluorescence quenching in electrochemically exfoliated graphene decorated with gold nanoparticles. <i>Nanotechnology</i> , 2016 , 27, 275702	3.4	6
8	Visualizing the importance of oxide-metal phase transitions in the production of synthesis gas over Ni catalysts. <i>Journal of Energy Chemistry</i> , 2020 , 50, 178-186	12	5
7	2D nanosheets from fool's gold by LPE: High performance lithium-ion battery anodes made from stone. <i>FlatChem</i> , 2021 , 30, 100295	5.1	4
6	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF ₃) into 2D-platelets for high-capacity lithium storing cathodes. <i>FlatChem</i> , 2022 , 33, 100360	5.1	4
5	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	3
4	Sonochemical edge functionalisation of molybdenum disulfide. <i>Nanoscale</i> , 2019 , 11, 15550-15560	7.7	2
3	Study Using Low-loss EELS to Compare Properties of TMDs Produced by Mechanical and Liquid Phase Exfoliation. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1475-1476	0.5	2
2	Exciton and Plasmon Mapping at the Nanoscale 2016 , 415-416		
1	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1566-1567	0.5	

