

Hannah Catherine Nerl

List of Publications by Year in descending order

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52
papers

31,065
citations

109321

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF ₃) into 2D-platelets for high-capacity lithium storing cathodes. FlatChem, 2022, 33, 100360.	5.6	15
2	Two-dimensional material inks. Nature Reviews Materials, 2022, 7, 717-735.	48.7	71
3	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. Materials Today, 2021, 43, 99-131.	14.2	107
4	2D nanosheets from foolâ€™s gold by LPE: High performance lithium-ion battery anodes made from stone. FlatChem, 2021, 30, 100295.	5.6	6
5	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS ₂) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. ACS Nano, 2020, 14, 13418-13432.	14.6	45
6	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. Energy and Environmental Science, 2020, 13, 2124-2133.	30.8	35
7	3D MXene Architectures for Efficient Energy Storage and Conversion. Advanced Functional Materials, 2020, 30, 2000842.	14.9	276
8	Visualizing the importance of oxide-metal phase transitions in the production of synthesis gas over Ni catalysts. Journal of Energy Chemistry, 2020, 50, 178-186.	12.9	10
9	Insights into Chemical Dynamics and Their Impact on the Reactivity of Pt Nanoparticles during CO Oxidation by Operando TEM. ACS Catalysis, 2020, 10, 3183-3193.	11.2	44
10	Versatile Homebuilt Gas Feed and Analysis System for <i>Operando</i> TEM of Catalysts at Work. Microscopy and Microanalysis, 2020, 26, 220-228.	0.4	12
11	Sonochemical edge functionalisation of molybdenum disulfide. Nanoscale, 2019, 11, 15550-15560.	5.6	4
12	Selfâ€™Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. Advanced Functional Materials, 2019, 29, 1903120.	14.9	9
13	High mobility solution processed MoS ₂ thin film transistors. Solid-State Electronics, 2019, 158, 75-84.	1.4	16
14	Additive-free MXene inks and direct printing of micro-supercapacitors. Nature Communications, 2019, 10, 1795.	12.8	649
15	Liquid phase exfoliation of MoO ₂ nanosheets for lithium ion battery applications. Nanoscale Advances, 2019, 1, 1560-1570.	4.6	35
16	Graphene and MXene-based transparent conductive electrodes and supercapacitors. Energy Storage Materials, 2019, 16, 102-125.	18.0	313
17	Stamping of Flexible, Coplanar Microâ€™Supercapacitors Using MXene Inks. Advanced Functional Materials, 2018, 28, 1705506.	14.9	427
18	Fieldâ€™Dependent Electrical and Thermal Transport in Polycrystalline WSe ₂ . Advanced Materials Interfaces, 2018, 5, 1701161.	3.7	17

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19	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. <i>Microscopy and Microanalysis</i> , 2018, 24, 1566-1567.	0.4	0
20	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High Capacity, Long Lifetime Li-ion Batteries. <i>Advanced Science</i> , 2018, 5, 1800502.	11.2	210
21	Growth of large sized two-dimensional MoS ₂ flakes in aqueous solution. <i>Nanoscale</i> , 2017, 9, 6575-6580.	5.6	17
22	Probing the local nature of excitons and plasmons in few-layer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	58
23	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). <i>Chemistry of Materials</i> , 2017, 29, 4848-4856.	6.7	1,120
24	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017, 356, 69-73.	12.6	391
25	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , 2017, 29, 1702678.	21.0	756
26	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, .	7.9	3
27	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.	10.0	71
28	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.	16.0	123
29	Long-chain amine-templated synthesis of gallium sulfide and gallium selenide nanotubes. <i>Nanoscale</i> , 2016, 8, 11698-11706.	5.6	11
30	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.	10.3	71
31	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.	3.6	13
32	Efficient fluorescence quenching in electrochemically exfoliated graphene decorated with gold nanoparticles. <i>Nanotechnology</i> , 2016, 27, 275702.	2.6	6
33	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.	0.4	2
34	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , 2015, 9, 6018-6030.	14.6	293
35	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , 2015, 27, 3483-3493.	6.7	195
36	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015, 6, 8563.	12.8	921

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37	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	5.6	2,452
38	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014, 13, 624-630.	27.5	1,958
39	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2014, 26, 1751-1763.	6.7	266
40	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. <i>Nature Communications</i> , 2014, 5, 4576.	12.8	432
41	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, 9567-9579.	14.6	89
42	Unusual Stacking Variations in Liquid-Phase Exfoliated Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2014, 8, 3690-3699.	14.6	43
43	Liquid Exfoliation of Layered Materials. <i>Science</i> , 2013, 340, .	12.6	3,109
44	Covalently Functionalized Hexagonal Boron Nitride Nanosheets by Nitrene Addition. <i>Chemistry - A European Journal</i> , 2012, 18, 10808-10812.	3.3	75
45	Imaging methods for determining uptake and toxicity of carbon nanotubes <i>in vitro</i> and <i>in vivo</i> . <i>Nanomedicine</i> , 2011, 6, 849-865.	3.3	37
46	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. <i>Nanoscale</i> , 2011, 3, 2627.	5.6	110
47	Two-Dimensional Nanosheets Produced by Liquid Exfoliation of Layered Materials. <i>Science</i> , 2011, 331, 568-571.	12.6	6,190
48	Large-scale Exfoliation of Inorganic Layered Compounds in Aqueous Surfactant Solutions. <i>Advanced Materials</i> , 2011, 23, 3944-3948.	21.0	1,012
49	Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy. <i>Nature</i> , 2010, 464, 571-574.	27.8	1,138
50	Liquid Phase Production of Graphene by Exfoliation of Graphite in Surfactant/Water Solutions. <i>Journal of the American Chemical Society</i> , 2009, 131, 3611-3620.	13.7	2,038
51	Towards Solutions of Single-walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008, 20, 1876-1881.	21.0	333
52	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , 2008, 3, 563-568.	31.5	5,431