

Torben Daeneke

List of Publications by Citations

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120
papers

8,129
citations

46
h-index

89
g-index

130
ext. papers

9,797
ext. citations

12.8
avg, IF

6.16
L-index

#	Paper	IF	Citations
120	High-efficiency dye-sensitized solar cells with ferrocene-based electrolytes. <i>Nature Chemistry</i> , 2011 , 3, 211-15	17.6	512
119	Physisorption-Based Charge Transfer in Two-Dimensional SnS ₂ for Selective and Reversible NO ₂ Gas Sensing. <i>ACS Nano</i> , 2015 , 9, 10313-23	16.7	479
118	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018 , 47, 4073-4113	38.5	432
117	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. <i>Science</i> , 2017 , 358, 332-335	33.3	384
116	Two dimensional and layered transition metal oxides. <i>Applied Materials Today</i> , 2016 , 5, 73-89	6.6	313
115	Molybdenum Oxides - From Fundamentals to Functionality. <i>Advanced Materials</i> , 2017 , 29, 1701619	24	298
114	Two-Dimensional Transition Metal Dichalcogenides in Biosystems. <i>Advanced Functional Materials</i> , 2015 , 25, 5086-5099	15.6	256
113	Oxygen-induced doping of spiro-MeOTAD in solid-state dye-sensitized solar cells and its impact on device performance. <i>Nano Letters</i> , 2012 , 12, 4925-31	11.5	252
112	Dye regeneration kinetics in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16925-8	16.4	202
111	Two-Dimensional Transition Metal Oxide and Chalcogenide-Based Photocatalysts. <i>Nano-Micro Letters</i> , 2018 , 10, 23	19.5	182
110	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017 , 8, 14482	17.4	172
109	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019 , 13, 7388-7395	16.7	169
108	Application of the tris(acetylacetonato)iron(III)/(II) redox couple in p-type dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3758-62	16.4	169
107	Highly efficient p-type dye-sensitized solar cells based on tris(1,2-diaminoethane)cobalt(II)/(III) electrolytes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 602-5	16.4	163
106	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS ₂ . <i>Chemistry of Materials</i> , 2015 , 27, 53-59	9.6	160
105	Electronic Tuning of 2D MoS ₂ through Surface Functionalization. <i>Advanced Materials</i> , 2015 , 27, 6225-9	24	158
104	Plasmon resonances of highly doped two-dimensional MoS ₂ . <i>Nano Letters</i> , 2015 , 15, 883-90	11.5	145

103	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. <i>Advanced Functional Materials</i> , 2016 , 26, 91-100	15.6	140
102	Dye regeneration and charge recombination in dye-sensitized solar cells with ferrocene derivatives as redox mediators. <i>Energy and Environmental Science</i> , 2012 , 5, 7090	35.4	138
101	Highly active two dimensional MoO_3 for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24223-24231	13	118
100	Ionic imbalance induced self-propulsion of liquid metals. <i>Nature Communications</i> , 2016 , 7, 12402	17.4	116
99	Aqueous dye-sensitized solar cell electrolytes based on the ferricyanide-ferrocyanide redox couple. <i>Advanced Materials</i> , 2012 , 24, 1222-5	24	105
98	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , 2019 , 10, 865	17.4	100
97	2D WS ₂ /carbon dot hybrids with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13563-13571	13	99
96	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3482-93	9.5	91
95	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. <i>Advanced Functional Materials</i> , 2018 , 28, 1706006	15.6	84
94	Antibacterial Liquid Metals: Biofilm Treatment Magnetic Activation. <i>ACS Nano</i> , 2020 , 14, 802-817	16.7	83
93	Self-Limiting Galvanic Growth of MnO ₂ Monolayers on a Liquid Metal Applied to Photocatalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1901649	15.6	81
92	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. <i>ACS Nano</i> , 2017 , 11, 10974-10983	16.7	80
91	Antimicrobial Metal Nanomaterials: From Passive to Stimuli-Activated Applications. <i>Advanced Science</i> , 2020 , 7, 1902913	13.6	79
90	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. <i>Advanced Functional Materials</i> , 2017 , 27, 1702295	15.6	78
89	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. <i>Nature Electronics</i> , 2020 , 3, 51-58	28.4	73
88	Printing two-dimensional gallium phosphate out of liquid metal. <i>Nature Communications</i> , 2018 , 9, 3618	17.4	70
87	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , 2020 , 11, 3449	17.4	69
86	Dominating Energy Losses in NiO p-Type Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1401387	21.8	67

85	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. <i>Nano Letters</i> , 2017 , 17, 7831-7838	11.5	67
84	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. <i>Nanoscale</i> , 2014 , 6, 12780-91	7.7	65
83	Improved Photovoltages for p-Type Dye-Sensitized Solar Cells Using CuCrO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16375-16379	3.8	62
82	Wafer-Sized Ultrathin Gallium and Indium Nitride Nanosheets through the Ammonolysis of Liquid Metal Derived Oxides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 104-108	16.4	62
81	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO. <i>Nanoscale</i> , 2017 , 9, 19162-19175	7.7	61
80	Light-driven transformation processes of anisotropic silver nanoparticles. <i>ACS Nano</i> , 2013 , 7, 5911-21	16.7	51
79	Green Synthesis of Low-Dimensional Aluminum Oxide Hydroxide and Oxide Using Liquid Metal Reaction Media: Ultrahigh Flux Membranes. <i>Advanced Functional Materials</i> , 2018 , 28, 1804057	15.6	51
78	Two solvent grinding sonication method for the synthesis of two-dimensional tungsten disulphide flakes. <i>Chemical Communications</i> , 2015 , 51, 3770-3	5.8	50
77	Two-step synthesis of luminescent MoS ₂ -ZnS hybrid quantum dots. <i>Nanoscale</i> , 2015 , 7, 16763-72	7.7	48
76	Intercalated 2D MoS ₂ Utilizing a Simulated Sun Assisted Process: Reducing the HER Overpotential. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2447-2455	3.8	48
75	2D MoS ₂ PDMS Nanocomposites for NO ₂ Separation. <i>Small</i> , 2015 , 11, 5035-40	11	48
74	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS nanosheets. <i>Nanoscale</i> , 2016 , 8, 16276-16283	7.7	46
73	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021 , 16, 431-439	28.7	46
72	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e2001997	24	44
71	Introducing manganese complexes as redox mediators for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12021-8	3.6	43
70	Highly Efficient p-Type Dye-Sensitized Solar Cells based on Tris(1,2-diaminoethane)Cobalt(II)/(III) Electrolytes. <i>Angewandte Chemie</i> , 2013 , 125, 630-633	3.6	43
69	Indium tin oxide as a semiconductor material in efficient p-type dye-sensitized solar cells. <i>NPG Asia Materials</i> , 2016 , 8, e305-e305	10.3	43
68	2D SnO/In ₂ O ₃ van der Waals Heterostructure Photodetector Based on Printed Oxide Skin of Liquid Metals. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900007	4.6	42

67	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019 , 10, 4645	17.4	39
66	Surface Water Dependent Properties of Sulfur-Rich Molybdenum Sulfides: Electrolyteless Gas Phase Water Splitting. <i>ACS Nano</i> , 2017 , 11, 6782-6794	16.7	38
65	Two dimensional PbMoO ₄ : A photocatalytic material derived from a naturally non-layered crystal. <i>Nano Energy</i> , 2018 , 49, 237-246	17.1	37
64	Atomically Thin Ga ₂ S ₃ from Skin of Liquid Metals for Electrical, Optical, and Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4665-4672	5.6	37
63	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. <i>Advanced Functional Materials</i> , 2021 , 31, 2007336	15.6	37
62	BiO monolayers from elemental liquid bismuth. <i>Nanoscale</i> , 2018 , 10, 15615-15623	7.7	36
61	Liquid Metals in Catalysis for Energy Applications. <i>Joule</i> , 2020 , 4, 2290-2321	27.8	32
60	Liquid metals for tuning gas sensitive layers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6375-6382	7.1	31
59	Thiolate/Disulfide Based Electrolytes for p-type and Tandem Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015 , 182, 458-463	6.7	31
58	A solid advancement for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10451-2	16.4	31
57	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 4808-4819	9.6	30
56	Light driven growth of silver nanoplatelets on 2D MoS ₂ nanosheet templates. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4771-4778	7.1	27
55	Bi-Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. <i>Nano Letters</i> , 2020 , 20, 4403-4409	11.5	27
54	Liquid Phase Acoustic Wave Exfoliation of Layered MoS ₂ : Critical Impact of Electric Field in Efficiency. <i>Chemistry of Materials</i> , 2018 , 30, 5593-5601	9.6	27
53	Liquid metal core-shell structures functionalised via mechanical agitation: the example of Field metal. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17876-17887	13	26
52	Laser exposure induced alteration of WS ₂ monolayers in the presence of ambient moisture. <i>2D Materials</i> , 2018 , 5, 015013	5.9	26
51	Peculiar piezoelectricity of atomically thin planar structures. <i>Nanoscale</i> , 2020 , 12, 2875-2901	7.7	25
50	Exciton-Driven Chemical Sensors Based on Excitation-Dependent Photoluminescent Two-Dimensional SnS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42462-42468	9.5	24

49	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. <i>ACS Sensors</i> , 2020 , 5, 1177-1189	11.89	23
48	High-mobility p-type semiconducting two-dimensional TeO_2 . <i>Nature Electronics</i> , 2021 , 4, 277-283	28.4	23
47	Exfoliation Behavior of van der Waals Strings: Case Study of BiS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42603-42611	9.5	23
46	Exfoliation of Quasi-Stratified Bi_2S_3 Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. <i>Chemistry of Materials</i> , 2016 , 28, 8942-8950	9.6	22
45	Reductive exfoliation of substoichiometric MoS_2 bilayers using hydrazine salts. <i>Nanoscale</i> , 2016 , 8, 15252-15261	7.61	22
44	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021 , 31, 2005866	15.6	22
43	Application of the Tris(acetylacetonato)iron(III)/(II) Redox Couple in p-Type Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2015 , 127, 3829-3833	3.6	21
42	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020 , 7, 827-834	14.4	19
41	Ultrathin Ga O Glass: A Large-Scale Passivation and Protection Material for Monolayer WS. <i>Advanced Materials</i> , 2021 , 33, e2005732	24	19
40	Atomically thin TiO nanosheets synthesized using liquid metal chemistry. <i>Chemical Communications</i> , 2020 , 56, 4914-4917	5.8	17
39	Evolution of 2D tin oxides on the surface of molten tin. <i>Chemical Communications</i> , 2018 , 54, 2102-2105	5.8	17
38	Sonication synthesis of micro-sized silver nanoparticle/oleic acid liquid marbles: A novel SERS sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 52-58	8.5	15
37	Enhanced quantum efficiency from a mosaic of two dimensional MoS_2 formed onto aminosilane functionalised substrates. <i>Nanoscale</i> , 2016 , 8, 12258-66	7.7	15
36	Printable Single-Unit-Cell-Thick Transparent Zinc-Doped Indium Oxides with Efficient Electron Transport Properties. <i>ACS Nano</i> , 2021 , 15, 4045-4053	16.7	15
35	Ultra-thin lead oxide piezoelectric layers for reduced environmental contamination using a liquid metal-based process. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19434-19443	13	14
34	Dual-Function Smart Electrolyte for Dye-Sensitized Solar Cells: 5-Mercaptotetrazoles as Redox Mediator and Corrosion Repressor. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19613-19618	3.8	13
33	Gallium nitride formation in liquid metal sonication. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16593-16602	6.2	13
32	Liquid Exfoliation of Layered Transition Metal Dichalcogenides for Biological Applications. <i>Current Protocols in Chemical Biology</i> , 2016 , 8, 97-108	1.8	13

31	Two-Step Synthesis of Large-Area 2D Bi ₂ S ₃ Nanosheets Featuring High In-Plane Anisotropy. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001131	4.6	12
30	An exploration into two-dimensional metal oxides, and other 2D materials, synthesised via liquid metal printing and transfer techniques. <i>Dalton Transactions</i> , 2021 , 50, 7513-7526	4.3	12
29	Liquid metal derived MOF functionalized nanoarrays with ultra-wideband electromagnetic absorption. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1852-1865	9.3	12
28	Liquid metal synthesis of two-dimensional aluminium oxide platelets to reinforce epoxy composites. <i>Composites Science and Technology</i> , 2019 , 181, 107708	8.6	11
27	A new family of substituted triethoxysilyl iodides as organic iodide sources for dye-sensitised solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3694		11
26	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10776-10787	7.3	11
25	Patterned films from exfoliated two-dimensional transition metal dichalcogenides assembled at a liquid-liquid interface. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6937-6944	7.1	10
24	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021 , 22, 100954	6.6	10
23	Magnetic noise from ultrathin abrasively deposited materials on diamond. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
22	Direct conversion of CO ₂ to solid carbon by Ga-based liquid metals. <i>Energy and Environmental Science</i> ,	35.4	8
21	High- 2D SbO Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. <i>ACS Nano</i> , 2021 , 15, 16067-16075	16.7	8
20	Applications of liquid metals in nanotechnology.. <i>Nanoscale Horizons</i> , 2022 ,	10.8	7
19	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. <i>Advanced Materials</i> , 2021 , e2105789	24	7
18	Ultrathin oxysulfide semiconductors from liquid metal: a wet chemical approach. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11815-11826	7.1	7
17	Low dimensional materials for glucose sensing. <i>Nanoscale</i> , 2021 , 13, 11017-11040	7.7	6
16	Infrared sensitizers in titania-based dye-sensitized solar cells using a dimethylferrocene electrolyte. <i>ChemSusChem</i> , 2013 , 6, 2056-60	8.3	5
15	Liquid metals: an ideal platform for the synthesis of two-dimensional materials.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	5
14	2D Palladium Sulphate for Visible-Light-Driven Optoelectronic Reversible Gas Sensing at Room Temperature. <i>Small Science</i> , 2022 , 2, 2100097		5

13	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals 2022 , 1, 158-169	4
12	Investigation of the surface of Ga ₂ Sn ₂ Zn eutectic alloy by the characterisation of oxide nanofilms obtained by the touch-printing method. <i>Nanomaterials</i> , 2019 , 9,	5.4 3
11	Nanoscale Probing of Cholesterol-Rich Domains in Single Bilayer Dimyristoyl-Phosphocholine Membranes Using Near-Field Spectroscopic Imaging. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9476-9484	6.4 3
10	Integrated liquid metal based two-dimensional Ni ₄ Al ₂ O ₃ nanoarrays on enhancing electromagnetic wave absorption performance. <i>Ceramics International</i> , 2022 , 48, 10066-10078	5.1 3
9	Exploring electric field assisted van der Waals weakening of stratified crystals. <i>Applied Materials Today</i> , 2018 , 12, 359-365	6.6 2
8	Ein solider Fortschritt für Farbstoffsolarzellen. <i>Angewandte Chemie</i> , 2012 , 124, 10601-10603	3.6 2
7	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells. <i>Advanced Materials Interfaces</i> , 2102113	4.6 2
6	The Impact of Water on the Lateral Nanostructure of a Deep Eutectic Solvent/Solid Interface. <i>Australian Journal of Chemistry</i> , 2021 ,	1.2 2
5	Influence of direct deposition of dielectric materials on the optical response of monolayer WS ₂ . <i>Applied Physics Letters</i> , 2021 , 119, 133106	3.4 2
4	Combustion Power in your Pocket: A Case for Portable Pyroelectric Energy Conversion. <i>Matter</i> , 2020 , 3, 20-22	12.7 1
3	Two dimensional tungsten oxide nanosheets with unprecedented selectivity and sensitivity to NO ₂ 2017 ,	1
2	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells (Adv. Mater. Interfaces 7/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270035	4.6 0
1	The catalytic decomposition of carbon dioxide on zinc-exchanged Y-zeolite at low temperatures. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2675-2680	3.5