

Kourosch Kalantar Kalantar-zadeh

List of Publications by Year in descending order

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519
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45144
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#	ARTICLE	IF	CITATIONS
1	Post-Transition Metal Electrodes for Sensing Heavy Metal Ions by Stripping Voltammetry. <i>Advanced Materials Technologies</i> , 2022, 7, 2100760.	3.0	24
2	Liquid-Metal-Enabled Mechanical-Energy-Induced CO ₂ Conversion. <i>Advanced Materials</i> , 2022, 34, e2105789.	11.1	58
3	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	28
4	Electrospun liquid metal/PVDF-HFP nanofiber membranes with exceptional triboelectric performance. <i>Nano Energy</i> , 2022, 92, 106713.	8.2	49
5	Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 921-931.	2.7	45
6	Applications of liquid metals in nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 141-167.	4.1	47
7	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
8	Emerging Role of Liquid Metals in Sensing. <i>ACS Sensors</i> , 2022, 7, 386-408.	4.0	48
9	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. , 2022, 1, 158-169.		15
10	High-Q Phonon-polaritons in Spatially Confined Freestanding $\hat{\pm}$ -MoO ₃ . <i>ACS Photonics</i> , 2022, 9, 905-913.	3.2	15
11	Soft Liquid Metal Infused Conductive Sponges. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	24
12	Cell-Mediated Biointerfacial Phenolic Assembly for Probiotic Nano Encapsulation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
13	Large Area Ultrathin InN and Tin Doped InN Nanosheets Featuring 2D Electron Gases. <i>ACS Nano</i> , 2022, 16, 5476-5486.	7.3	8
14	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. <i>Applied Materials Today</i> , 2022, 27, 101459.	2.3	7
15	Supplementing Dietary Fibers With a Low FODMAP Diet in Irritable Bowel Syndrome: A Randomized Controlled Crossover Trial. <i>Clinical Gastroenterology and Hepatology</i> , 2022, 20, 2112-2120.e7.	2.4	15
16	Tuning Phase Transition and Thermo-chromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19736-19746.	4.0	16
17	Low Temperature Nano Mechano-electrocatalytic CH ₄ Conversion. <i>ACS Nano</i> , 2022, 16, 8684-8693.	7.3	19
18	Ag-Ga Bimetallic Nanostructures Ultrasonically Prepared from Silver-Liquid Gallium Core-Shell Systems Engineered for Catalytic Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 6820-6831.	2.4	12

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19	High- $\hat{\nu}$ perovskite membranes as insulators for two-dimensional transistors. <i>Nature</i> , 2022, 605, 262-267.	13.7	109
20	Liquid state of post-transition metals for interfacial synthesis of two-dimensional materials. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	9
21	Gallium Nanodroplets are Anti-Inflammatory without Interfering with Iron Homeostasis. <i>ACS Nano</i> , 2022, 16, 8891-8903.	7.3	33
22	Insights into the Interfacial Contact and Charge Transport of Gas-Sensing Liquid Metal Marbles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30112-30123.	4.0	9
23	Low-temperature liquid platinum catalyst. <i>Nature Chemistry</i> , 2022, 14, 935-941.	6.6	61
24	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021, 31, 2005866.	7.8	41
25	Carbonization of low thermal stability polymers at the interface of liquid metals. <i>Carbon</i> , 2021, 171, 938-945.	5.4	5
26	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. <i>Advanced Functional Materials</i> , 2021, 31, 2007336.	7.8	84
27	Gallium-Based Liquid Metal Particles for Therapeutics. <i>Trends in Biotechnology</i> , 2021, 39, 624-640.	4.9	85
28	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021, 16, 431-439.	15.6	104
29	Low dimensional materials for glucose sensing. <i>Nanoscale</i> , 2021, 13, 11017-11040.	2.8	30
30	Recent developments of hybrid piezo-triboelectric nanogenerators for flexible sensors and energy harvesters. <i>Nanoscale Advances</i> , 2021, 3, 5465-5486.	2.2	47
31	Meandering Pattern 433 MHz Antennas for Ingestible Capsules. <i>IEEE Access</i> , 2021, 9, 91874-91882.	2.6	12
32	Liquid metal batteries for future energy storage. <i>Energy and Environmental Science</i> , 2021, 14, 4177-4202.	15.6	149
33	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. <i>ACS Applied Nano Materials</i> , 2021, 4, 2987-2998.	2.4	26
34	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021, 22, 100954.	2.3	18
35	High-mobility p-type semiconducting two-dimensional $\hat{\nu}$ -TeO ₂ . <i>Nature Electronics</i> , 2021, 4, 277-283.	13.1	75
36	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021, 15, 9134-9142.	7.3	21

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37	Maximum piezoelectricity in a few unit-cell thick planar ZnO " A liquid metal-based synthesis approach. <i>Materials Today</i> , 2021, 44, 69-77.	8.3	44
38	Cytokines: From Clinical Significance to Quantification. <i>Advanced Science</i> , 2021, 8, e2004433.	5.6	216
39	Low Melting Temperature Liquid Metals and Their Impacts on Physical Chemistry. <i>Accounts of Materials Research</i> , 2021, 2, 577-580.	5.9	32
40	Gallium Liquid Metal: The Devil's Elixir. <i>Annual Review of Materials Research</i> , 2021, 51, 381-408.	4.3	130
41	Complementary bulk and surface passivations for highly efficient perovskite solar cells by gas quenching. <i>Cell Reports Physical Science</i> , 2021, 2, 100511.	2.8	21
42	Nanotip Formation from Liquid Metals for Soft Electronic Junctions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43247-43257.	4.0	17
43	Doping Process of 2D Materials Based on the Selective Migration of Dopants to the Interface of Liquid Metals. <i>Advanced Materials</i> , 2021, 33, e2104793.	11.1	38
44	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19854-19864.	5.2	12
45	Bluetooth Signal Attenuation Analysis in Human Body Tissue Analogues. <i>IEEE Access</i> , 2021, 9, 85144-85150.	2.6	22
46	Microbiome modulation as a novel therapeutic approach in chronic kidney disease. <i>Current Opinion in Nephrology and Hypertension</i> , 2021, 30, 75-84.	1.0	25
47	Interface chemistry of two-dimensional heterostructures " fundamentals to applications. <i>Chemical Society Reviews</i> , 2021, 50, 4684-4729.	18.7	152
48	High- <i>k</i> 2D Sb ₂ O ₃ Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. <i>ACS Nano</i> , 2021, 15, 16067-16075.	7.3	24
49	Polydopamine Shell as a Ga ³⁺ Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. <i>ACS Nano</i> , 2021, 15, 16839-16850.	7.3	27
50	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53181-53193.	4.0	19
51	Exploring Interfacial Graphene Oxide Reduction by Liquid Metals: Application in Selective Biosensing. <i>ACS Nano</i> , 2021, 15, 19661-19671.	7.3	52
52	Association between severity of COVID-19 symptoms and habitual food intake in adult outpatients. <i>BMJ Nutrition, Prevention and Health</i> , 2021, 4, 469-478.	1.9	11
53	Nanoencapsulation for Probiotic Delivery. <i>ACS Nano</i> , 2021, 15, 18653-18660.	7.3	64
54	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021, 4, 4022-4041.	5.0	20

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55	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , 2020, 16, e1903753.	5.2	102
56	Telecommunications and Data Processing in Flexible Electronic Systems. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	25
57	Antibacterial Liquid Metals: Biofilm Treatment via Magnetic Activation. <i>ACS Nano</i> , 2020, 14, 802-817.	7.3	198
58	Liquid metal-supported synthesis of cupric oxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1656-1665.	2.7	27
59	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020, 14, 1123-1132.	7.3	15
60	Liquid metals and their hybrids as stimulus-responsive smart materials. <i>Materials Today</i> , 2020, 34, 92-114.	8.3	78
61	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1907879.	7.8	53
62	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10776-10787.	2.9	31
63	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.	1.9	27
64	Two-Dimensional Material-Based Biosensors for Virus Detection. <i>ACS Sensors</i> , 2020, 5, 3739-3769.	4.0	73
65	Broadband Photodetectors: Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors (<i>Adv. Mater.</i> 45/2020). <i>Advanced Materials</i> , 2020, 32, 2070338.	11.1	2
66	Liquid Metals in Catalysis for Energy Applications. <i>Joule</i> , 2020, 4, 2290-2321.	11.7	106
67	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38376-38385.	4.0	27
68	Response to Comment on Considering the Effects of Microbiome and Diet on SARS-CoV-2 Infection. <i>ACS Nano</i> , 2020, 14, 12266-12266.	7.3	1
69	Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors. <i>Advanced Materials</i> , 2020, 32, e2004247.	11.1	66
70	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
71	Anisotropic Materials Based on Liquid Metals. <i>Matter</i> , 2020, 3, 613-614.	5.0	4
72	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.	5.2	29

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73	Pulsing Liquid Alloys for Nanomaterials Synthesis. ACS Nano, 2020, 14, 14070-14079.	7.3	52
74	Gallium nitride formation in liquid metal sonication. Journal of Materials Chemistry C, 2020, 8, 16593-16602.	2.7	32
75	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. Chemistry of Materials, 2020, 32, 4808-4819.	3.2	75
76	Bi ²⁺ /Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. Nano Letters, 2020, 20, 4403-4409.	4.5	46
77	Direct Transformation of Crystalline MoO ₃ into Few-Layers MoS ₂ . Materials, 2020, 13, 2293.	1.3	2
78	Photolithography-enabled direct patterning of liquid metals. Journal of Materials Chemistry C, 2020, 8, 7805-7811.	2.7	32
79	Polymeric composite membranes for gas separation: State-of-the-art 2D fillers. , 2020, , 293-306.		0
80	Exploring Electrochemical Extrusion of Wires from Liquid Metals. ACS Applied Materials & Interfaces, 2020, 12, 31010-31020.	4.0	34
81	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. ACS Applied Nano Materials, 2020, 3, 6905-6914.	2.4	38
82	Liquid Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. Advanced Materials, 2020, 32, e2001997.	11.1	63
83	Uncovering Atomic-Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. Advanced Energy Materials, 2020, 10, 2001381.	10.2	51
84	Effective Separation of CO ₂ Using Metal-Incorporated rGO Membranes. Advanced Materials, 2020, 32, e1907580.	11.1	63
85	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. ACS Sensors, 2020, 5, 1177-1189.	4.0	34
86	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. Nature Communications, 2020, 11, 3449.	5.8	128
87	Peculiar piezoelectricity of atomically thin planar structures. Nanoscale, 2020, 12, 2875-2901.	2.8	44
88	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. Nature Electronics, 2020, 3, 51-58.	13.1	161
89	Considering the Effects of Microbiome and Diet on SARS-CoV-2 Infection: Nanotechnology Roles. ACS Nano, 2020, 14, 5179-5182.	7.3	131
90	Magnetic and Conductive Liquid Metal Gels. ACS Applied Materials & Interfaces, 2020, 12, 20119-20128.	4.0	73

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91	Liquid metal core-shell structures functionalised <i>via</i> mechanical agitation: the example of Field's metal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17876-17887.	5.2	42
92	Liquid metal synthesis of two-dimensional aluminium oxide platelets to reinforce epoxy composites. <i>Composites Science and Technology</i> , 2019, 181, 107708.	3.8	15
93	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.	2.4	72
94	Self-Limiting Galvanic Growth of MnO ₂ Monolayers on a Liquid Metal Applied to Photocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1901649.	7.8	129
95	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019, 10, 4645.	5.8	76
96	Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment. <i>Advanced Materials</i> , 2019, 31, e1905288.	11.1	31
97	Liquid metal dispersion by self-assembly of natural phenolics. <i>Chemical Communications</i> , 2019, 55, 11291-11294.	2.2	29
98	Intestinal gases: influence on gut disorders and the role of dietary manipulations. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019, 16, 733-747.	8.2	116
99	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. <i>Environmental Science & Technology</i> , 2019, 53, 2161-2170.	4.6	102
100	Self-tunable ultrathin carbon nanocups as the electrode material of sodium-ion batteries with unprecedented capacity and stability. <i>Chemical Engineering Journal</i> , 2019, 364, 578-588.	6.6	37
101	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 257-268.	5.2	70
102	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019, 13, 7388-7395.	7.3	269
103	Electronic Skins Based on Liquid Metals. <i>Proceedings of the IEEE</i> , 2019, 107, 2168-2184.	16.4	77
104	Liquid metals for tuning gas sensitive layers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6375-6382.	2.7	46
105	Future is ready for swallowable sensors. <i>Hepatobiliary Surgery and Nutrition</i> , 2019, 8, 267-269.	0.7	6
106	High Surface Area to Volume Ratio 3D Nanoporous Nb ₂ O ₅ for Enhanced Humidity Sensing. <i>Journal of Electronic Materials</i> , 2019, 48, 3805-3815.	1.0	12
107	Lithium Intercalated Molybdenum Disulfide-Coated Cotton Thread as a Viable Nerve Tissue Scaffold Candidate. <i>ACS Applied Nano Materials</i> , 2019, 2, 2044-2053.	2.4	9
108	Investigation of the surface of Ga-Sn-Zn eutectic alloy by the characterisation of oxide nanofilms obtained by the touch-printing method. <i>Nanomaterials</i> , 2019, 9, 235.	1.9	11

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109	Room temperature CO ₂ reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , 2019, 10, 865.	5.8	179
110	2D Materials: Coordination Polymer to Atomically Thin, Holey, Metal Oxide Nanosheets for Tuning Band Alignment (<i>Adv. Mater.</i> 52/2019). <i>Advanced Materials</i> , 2019, 31, 1970370.	11.1	3
111	<i>In Vivo</i> and <i>In Vitro</i> Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. <i>ACS Sensors</i> , 2019, 4, 200-210.	4.0	54
112	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.	6.6	107
113	Band structure and giant Stark effect in two-dimensional transition-metal dichalcogenides. <i>Electronic Structure</i> , 2019, 1, 015005.	1.0	5
114	Atomically thin two-dimensional metal oxide nanosheets and their heterostructures for energy storage. <i>Energy Storage Materials</i> , 2019, 16, 455-480.	9.5	109
115	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.	3.0	78
116	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018, 47, 4073-4111.	18.7	763
117	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. <i>Advanced Functional Materials</i> , 2018, 28, 1706006.	7.8	105
118	Evolution of 2D tin oxides on the surface of molten tin. <i>Chemical Communications</i> , 2018, 54, 2102-2105.	2.2	27
119	A human pilot trial of ingestible electronic capsules capable of sensing different gases in the gut. <i>Nature Electronics</i> , 2018, 1, 79-87.	13.1	240
120	Modulation of colonic hydrogen sulfide production by diet and mesalazine utilizing a novel gas-profiling technology. <i>Gut Microbes</i> , 2018, 9, 1-13.	4.3	23
121	A novel mathematical model for the dynamic assessment of gas composition and production in closed or vented fermentation systems. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 354-362.	4.0	4
122	Two-Dimensional Transition Metal Oxide and Chalcogenide-Based Photocatalysts. <i>Nano-Micro Letters</i> , 2018, 10, 23.	14.4	257
123	Exfoliation Behavior of van der Waals Strings: Case Study of Bi ₂ S ₃ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42603-42611.	4.0	30
124	Piezotronic materials and large-scale piezotronics array devices. <i>MRS Bulletin</i> , 2018, 43, 936-940.	1.7	30
125	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.	7.8	67
126	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , 2018, 562, 557-562.	13.7	506

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127	Printing two-dimensional gallium phosphate out of liquid metal. <i>Nature Communications</i> , 2018, 9, 3618.	5.8	107
128	An in-vitro upper gut simulator for assessing continuous gas production: A proof-of-concept using milk digestion. <i>Journal of Functional Foods</i> , 2018, 47, 200-210.	1.6	4
129	Amorphous MoS ₂ -Coated TiO ₂ Nanotube Arrays for Enhanced Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12589-12597.	1.5	72
130	The safety and sensitivity of a telemetric capsule to monitor gastrointestinal hydrogen production in vivo in healthy subjects: a pilot trial comparison to concurrent breath analysis. <i>Alimentary Pharmacology and Therapeutics</i> , 2018, 48, 646-654.	1.9	46
131	Bi ₂ O ₃ monolayers from elemental liquid bismuth. <i>Nanoscale</i> , 2018, 10, 15615-15623.	2.8	52
132	Soft micro-sensotransmitters emerging. <i>Nature Nanotechnology</i> , 2018, 13, 770-771.	15.6	1
133	Exploring electric field assisted van der Waals weakening of stratified crystals. <i>Applied Materials Today</i> , 2018, 12, 359-365.	2.3	2
134	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.	3.2	31
135	Two dimensional PbMoO ₄ : A photocatalytic material derived from a naturally non-layered crystal. <i>Nano Energy</i> , 2018, 49, 237-246.	8.2	45
136	Ultrafast Acoustofluidic Exfoliation of Stratified Crystals. <i>Advanced Materials</i> , 2018, 30, e1704756.	11.1	32
137	Laser exposure induced alteration of WS ₂ monolayers in the presence of ambient moisture. <i>2D Materials</i> , 2018, 5, 015013.	2.0	33
138	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017, 8, 14482.	5.8	219
139	Ingestible Sensors. <i>ACS Sensors</i> , 2017, 2, 468-483.	4.0	171
140	Liquid metal enabled microfluidics. <i>Lab on A Chip</i> , 2017, 17, 974-993.	3.1	354
141	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.	2.7	12
142	Hydrogen sensors based on gold nanoclusters assembled onto ZnO nanostructures at low operating temperature. <i>Ceramics International</i> , 2017, 43, S511-S515.	2.3	7
143	Surface Water Dependent Properties of Sulfur-Rich Molybdenum Sulfides: Electrolyteless Gas Phase Water Splitting. <i>ACS Nano</i> , 2017, 11, 6782-6794.	7.3	57
144	Highly active two dimensional β -MoO ₃ for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24223-24231.	5.2	166

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145	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. ACS Nano, 2017, 11, 10974-10983.	7.3	122
146	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. Science, 2017, 358, 332-335.	6.0	576
147	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. Advanced Functional Materials, 2017, 27, 1702295.	7.8	110
148	Molybdenum Oxides – From Fundamentals to Functionality. Advanced Materials, 2017, 29, 1701619.	11.1	447
149	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO ₂ . Nanoscale, 2017, 9, 19162-19175.	2.8	81
150	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. Nano Letters, 2017, 17, 7831-7838.	4.5	101
151	A novel wireless gas sensor based on LTCC technology. Sensors and Actuators B: Chemical, 2017, 239, 711-717.	4.0	57
152	Designing an in-vitro gas profiling system for human faecal samples. Sensors and Actuators B: Chemical, 2017, 238, 754-764.	4.0	13
153	Two dimensional tungsten oxide nanosheets with unprecedented selectivity and sensitivity to NO ₂ . , 2017, , .		2
154	Laser-Induced Dewetting for Precise Local Generation of Au Nanostructures for Tunable Solar Absorption. Advanced Optical Materials, 2016, 4, 1247-1254.	3.6	26
155	Exfoliation of Quasi-Stratified Bi ₂ S ₃ Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. Chemistry of Materials, 2016, 28, 8942-8950.	3.2	31
156	Ionic imbalance induced self-propulsion of liquid metals. Nature Communications, 2016, 7, 12402.	5.8	158
157	Elastomeric composites for flexible microwave substrates. Journal of Applied Physics, 2016, 119, .	1.1	5
158	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. Advanced Functional Materials, 2016, 26, 91-100.	7.8	164
159	Enhanced quantum efficiency from a mosaic of two dimensional MoS ₂ formed onto aminosilane functionalised substrates. Nanoscale, 2016, 8, 12258-12266.	2.8	18
160	Two dimensional and layered transition metal oxides. Applied Materials Today, 2016, 5, 73-89.	2.3	400
161	2D WS ₂ /carbon dot hybrids with enhanced photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 13563-13571.	5.2	119
162	Reductive exfoliation of substoichiometric MoS ₂ bilayers using hydrazine salts. Nanoscale, 2016, 8, 15252-15261.	2.8	24

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163	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS ₂ nanosheets. <i>Nanoscale</i> , 2016, 8, 16276-16283.	2.8	62
164	Liquid Exfoliation of Layered Transition Metal Dichalcogenides for Biological Applications. <i>Current Protocols in Chemical Biology</i> , 2016, 8, 97-108.	1.7	19
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