

# CITATION REPORT

List of articles citing

## Water-based and biocompatible 2D crystal inks for all-inkjet-printed heterostructures

DOI: 10.1038/nnano.2016.281

Nature Nanotechnology, 2017, 12, 343-350.

**Source:** <https://exaly.com/paper-pdf/65950328/citation-report.pdf>

**Version:** 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
382	.		
381	Aqueous dispersions of nanostructures formed through the self-assembly of iminolipids with exchangeable hydrophobic termini. <b>2017</b> , 19, 17036-17043		7
380	From two-dimensional materials to their heterostructures: An electrochemist's perspective. <b>2017</b> , 8, 68-103		153
379	Two-dimensional materials: Printing functional atomic layers. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 287-288	28.7	6
378	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , <b>2017</b> , 356, 69-73	33.3	301
377	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 1202	17.4	230
376	2D printed graphene conductive layers with high carrier mobility. <b>2017</b> , 17, 1655-1661		14
375	Highly Concentrated, Ultrathin Nickel Hydroxide Nanosheet Ink for Wearable Energy Storage Devices. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703455	24	46
374	Ultrafast Charge Dynamics in Dispersions of Monolayer MoS <sub>2</sub> Nanosheets. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22415-22421	3.8	24
373	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , <b>2017</b> , 8, 278	17.4	225
372	PEDOT:PSS-Assisted Exfoliation and Functionalization of 2D Nanosheets for High-Performance Organic Solar Cells. <b>2017</b> , 27, 1701622		35
371	Aqueous Exfoliation of Graphite into Graphene Assisted by Sulfonyl Graphene Quantum Dots for Photonic Crystal Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30797-30804	9.5	35
370	Electron dynamics in MoS-graphite heterostructures. <i>Nanoscale</i> , <b>2017</b> , 9, 14533-14539	7.7	6
369	High-Performance Sub-Micrometer Channel WSe Field-Effect Transistors Prepared Using a Flood-Dike Printing Method. <b>2017</b> , 11, 12536-12546		6
368	Electrostatically driven scalable synthesis of MoS <sub>2</sub> /graphene hybrid films assisted by hydrophobins. <b>2017</b> , 7, 50166-50175		16
367	Robustness of Size Selection and Spectroscopic Size, Thickness and Monolayer Metrics of Liquid-Exfoliated WS <sub>2</sub> . <b>2017</b> , 254, 1700443		20
366	Facile one-pot exfoliation and integration of 2D layered materials by dispersion in a photocurable polymer precursor. <i>Nanoscale</i> , <b>2017</b> , 9, 10590-10595	7.7	9

365	High-Resolution Transfer Printing of Graphene Lines for Fully Printed, Flexible Electronics. <b>2017</b> , 11, 7431-7439		83
364	Ink-jet printed 2D crystal heterostructures. <b>2017</b> ,		1
363	Production of monolayer-rich gold-decorated 2HWS2 nanosheets by defect engineering. <b>2017</b> , 1,		18
362	In Situ Synthesis and Electrophoretic Deposition of NiO/Ni Core-Shell Nanoparticles and Its Application as Pseudocapacitor. <b>2017</b> , 7, 193		11
361	Alpha particle irradiation of bulk and exfoliated MoS2 and WS2 membranes. <b>2018</b> , 435, 180-189		3
360	Quantum engineering of transistors based on 2D materials heterostructures. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 183-191	28.7	198
359	Thermal bubble inkjet printing of water-based graphene oxide and graphene inks on heated substrate. <b>2018</b> , 51, 135302		8
358	Functional inks and printing of two-dimensional materials. <b>2018</b> , 47, 3265-3300		268
357	Minimizing residues and strain in 2D materials transferred from PDMS. <b>2018</b> , 29, 265203		59
356	Bi2Te3 Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. <b>2018</b> , 30, 1965-1970		9
355	Laser Ablation of Poly(lactic acid) Sheets for the Rapid Prototyping of Sustainable, Single-Use, Disposable Medical Microcomponents. <b>2018</b> , 6, 4899-4908		16
354	Inkjet printing of vanadium dioxide nanoparticles for smart windows. <b>2018</b> , 6, 2424-2429		33
353	Controllable Chemical Vapor Deposition Growth of Two-Dimensional Heterostructures. <b>2018</b> , 4, 671-689		60
352	Iron Oxide Nanoparticle-Based Magnetic Ink Development for Fully Printed Tunable Radio-Frequency Devices. <b>2018</b> , 3, 1700242		20
351	2D Nanomaterial Arrays for Electronics and Optoelectronics. <b>2018</b> , 28, 1706559		80
350	Engineered MoSe2-Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <b>2018</b> , 8, 1703212		107
349	Designer Shape Anisotropy on Transition-Metal-Dichalcogenide Nanosheets. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705615	24	42
348	Inkjet printed 2D-crystal based strain gauges on paper. <i>Carbon</i> , <b>2018</b> , 129, 462-467	10.4	70

347	Inkjet printing of EMnO <sub>2</sub> nanosheets for flexible solid-state micro-supercapacitor. <b>2018</b> , 49, 481-488		154
346	Formation of transition metal dichalcogenides thin films with liquid phase exfoliation technique and photovoltaic applications. <b>2018</b> , 184, 9-14		12
345	Patterned Arrays of Functional Lateral Heterostructures via Sequential Template-Directed Printing. <i>Small</i> , <b>2018</b> , 14, e1800792	11	8
344	Inkjet printing of specular holograms based on a coffee-ring effect concave structure. <b>2018</b> , 6, 5269-5277		16
343	Optical trapping and optical force positioning of two-dimensional materials. <i>Nanoscale</i> , <b>2018</b> , 10, 1245-1255		30
342	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. <b>2018</b> , 30, 506-516		74
341	All-printed triboelectric nanogenerator. <b>2018</b> , 44, 82-88		67
340	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. <b>2018</b> , 29, 4171-4178		12
339	. <b>2018</b> ,		2
338	Biological interactions of biocompatible and water-dispersed MoS nanosheets with bacteria and human cells. <b>2018</b> , 8, 16386		39
337	Inkjet-printed metal oxide nanoparticles on elastomer for strain-adaptive transmissive electrochromic energy storage systems. <b>2018</b> , 19, 759-770		24
336	Graphene, related two-dimensional crystals and hybrid systems for printed and wearable electronics. <b>2018</b> , 23, 73-96		71
335	Biomedical Applications of Graphene-Based Structures. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	110
334	Recent Advances in Synthesis and Assembly of van der Waals Materials. <b>2018</b> , 73, 805-816		8
333	Contact and Noncontact Measurement of Electronic Transport in Individual 2D SnS Colloidal Semiconductor Nanocrystals. <b>2018</b> , 12, 10045-10060		13
332	Immunological impact of graphene oxide sheets in the abdominal cavity is governed by surface reactivity. <b>2018</b> , 92, 3359-3379		17
331	Solution-Processed Layered Gallium Telluride Thin-Film Photodetectors. <b>2018</b> , 5, 3996-4002		30
330	Printing 2D Materials. <b>2018</b> , 131-205		4

329	Fully Printed Flexible Dual-Gate Carbon Nanotube Thin-Film Transistors with Tunable Ambipolar Characteristics for Complementary Logic Circuits. <b>2018</b> , 12, 11572-11578		31
328	Fully Written Flexible Potentiometric Sensor Using Two-Dimensional Nanomaterial-Based Conductive Ink. <b>2018</b> , 90, 13088-13095		22
327	Evaporation of strong coffee drops. <b>2018</b> , 113, 183704		8
326	Photocurrent study of all-printed photodetectors on paper made of different transition metal dichalcogenide nanosheets. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 034005	3.1	17
325	Long-lived photoluminescence polarization of localized excitons in liquid exfoliated monolayer enriched WS. <b>2018</b> , 29, 335703		1
324	Printed biomolecular templates for 2D material patterning. <b>2018</b> , 112, 233704		10
323	Rapid inkjet printing of high catalytic activity Co <sub>3</sub> O <sub>4</sub> /N-rGO layers for oxygen reduction reaction. <b>2018</b> , 563, 9-17		13
322	Recent Progress and Future Prospects of 2D-Based Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801164	1.64	22.1
321	Modeling of Electron Devices Based on 2-D Materials. <b>2018</b> , 65, 4167-4179		16
320	Molecular chemistry approaches for tuning the properties of two-dimensional transition metal dichalcogenides. <b>2018</b> , 47, 6845-6888		139
319	Piezoelectricity of atomically thin WSe <sub>2</sub> via laterally excited scanning probe microscopy. <b>2018</b> , 52, 117-122		30
318	High-yield production of 2D crystals by wet-jet milling. <b>2018</b> , 5, 890-904		92
317	Analysis of Superfine-Resolution Printing of Polyaniline and Silver Microstructures for Electronic Applications. <b>2018</b> , 8, 1678-1685		6
316	Solution-Based Processing of Optoelectronically Active Indium Selenide. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802990	24	59
315	Preparation of 2D material dispersions and their applications. <b>2018</b> , 47, 6224-6266		29.1
314	Assessing and Mitigating the Hazard Potential of Two-Dimensional Materials. <b>2018</b> , 12, 6360-6377		56
313	Recent Advances in the Solution-Based Preparation of Two-Dimensional Layered Transition Metal Chalcogenide Nanostructures. <i>Chemical Reviews</i> , <b>2018</b> , 118, 6151-6188	68.1	127
312	Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. <b>2018</b> , 28, 1801972		111

311	Applications of Printed 2D Materials. <b>2019</b> , 179-216		1
310	Printing of Graphene and Related 2D Materials. <b>2019</b> ,		18
309	Printing Technologies. <b>2019</b> , 135-178		2
308	2D Ink Design. <b>2019</b> , 103-134		2
307	Introduction. <b>2019</b> , 1-17		
306	Whiskey-phase exfoliation: exfoliation and printing of nanosheets using Irish whiskey. <i>2D Materials</i> , <b>2019</b> , 6, 045036	5.9	18
305	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32225-32234	9.5	86
304	Electronics from solution-processed 2D semiconductors. <b>2019</b> , 7, 12835-12861		9
303	Two-Dimensional Graphene Family Material: Assembly, Biocompatibility and Sensors Applications. <b>2019</b> , 19,		18
302	Conformal Printing of Graphene for Single- and Multilayered Devices onto Arbitrarily Shaped 3D Surfaces. <b>2019</b> , 29, 1807933		31
301	3D-printed interdigitated graphene framework as superior support of metal oxide nanostructures for remarkable micro-pseudocapacitors. <b>2019</b> , 319, 245-252		33
300	Scalable nanomanufacturing of inkjet-printed wearable energy storage devices. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23280-23300	13	31
299	Molybdenum Disulfide Nanosheet/Quantum Dot Dynamic Memristive Structure Driven by Photoinduced Phase Transition. <i>Small</i> , <b>2019</b> , 15, e1903809	11	10
298	Radiation effects in printed flexible single-walled carbon nanotube thin-film transistors. <b>2019</b> , 9, 105121		4
297	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46044-46053	9.5	50
296	Photodynamic Therapy Based on Graphene and MXene in Cancer Theranostics. <b>2019</b> , 7, 295		56
295	A Fully Printed Flexible MoS <sub>2</sub> Memristive Artificial Synapse with Femtojoule Switching Energy. <b>2019</b> , 5, 1900740		71
294	Two-Dimensional Materials in Biosensing and Healthcare: From Diagnostics to Optogenetics and Beyond. <b>2019</b> , 13, 9781-9810		142

293	Aerosol Jet Printed WSe <sub>2</sub> Based RRAM on Kapton Suitable for Flexible Monolithic Memory Integration. <b>2019</b> ,		4
292	Inkjet-printed MXene micro-scale devices for integrated broadband ultrafast photonics. <b>2019</b> , 3,		51
291	Van der Waals thin-film electronics. <b>2019</b> , 2, 378-388		67
290	Solution-Processed Layered Hexagonal Boron Nitride Dielectrics: A Route toward Fabrication of High Performance Flexible Devices. <b>2019</b> , 1, 2130-2139		12
289	Flexible, Print-in-Place 1D-2D Thin-Film Transistors Using Aerosol Jet Printing. <b>2019</b> , 13, 11263-11272		60
288	Electronic and optoelectronic applications of solution-processed two-dimensional materials. <b>2019</b> , 20, 992-1009		8
287	Nonvolatile Memories Based on Graphene and Related 2D Materials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806663	145	
286	Fully Inkjet-Printed, Mechanically Flexible MoS Nanosheet Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5675-5681	9.5	53
285	Initial Studies Directed toward the Rational Design of Aqueous Graphene Dispersants. <i>ACS Omega</i> , <b>2019</b> , 4, 1969-1981	3.9	12
284	Percolation Effects in Electrolytically Gated WS/Graphene Nano:Nano Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8545-8555	9.5	16
283	Inkjet printed pseudocapacitive electrodes on laser-induced graphene for electrochemical energy storage. <b>2019</b> , 12, 155-160		25
282	Laser-writable high-k dielectric for van der Waals nanoelectronics. <b>2019</b> , 5, eaau0906		35
281	2D printing of graphene: a review. <i>2D Materials</i> , <b>2019</b> , 6, 042004	5.9	32
280	Water-Based Solution Processing and Wafer-Scale Integration of All-Graphene Humidity Sensors. <b>2019</b> , 6, 1802318		13
279	Hybrid metal nanoantenna 2D-material photovoltaic device. <b>2019</b> , 200, 109918		5
278	Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of Their Use in Neuroscience Research. <b>2019</b> , 1-39		
277	Wearable solid-state capacitors based on two-dimensional material all-textile heterostructures. <i>Nanoscale</i> , <b>2019</b> , 11, 9912-9919	7.7	24
276	Biocompatibility Considerations in the Design of Graphene Biomedical Materials. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900229	4.6	36

275	Two-Dimensional Nanomaterials: Crystal Structure and Synthesis. <b>2019</b> , 1-25		10
274	Biocompatibility and biodegradability of 2D materials: graphene and beyond. <b>2019</b> , 55, 5540-5546		108
273	Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , <b>2019</b> , 10, 1795	17.4	407
272	Sol-gel magnetite inks for inkjet printing. <b>2019</b> , 7, 6426-6432		13
271	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , <b>2019</b> , 6, 035007	5.9	20
270	Photonic nanoarchitectonics with stimuli-responsive 2D materials. <b>2019</b> , 4, 566-579		12
269	Water-based and inkjet printable inks made by electrochemically exfoliated graphene. <i>Carbon</i> , <b>2019</b> , 149, 213-221	10.4	52
268	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. <b>2019</b> , 4, 503-510		10
267	High-Performance Partially Printed Hybrid CMOS Inverters Based on Indium-Zinc-Oxide and Chirality Enriched Carbon Nanotube Thin-Film Transistors. <b>2019</b> , 5, 1900034		9
266	Fully Printed Flexible Crossbar Memory Devices with Tip-Enhanced Micro/Nanostructures. <b>2019</b> , 5, 1900131		8
265	Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications. <b>2019</b> , 4, 1800546		194
264	Bridging interdigitated electrodes by electrochemical-assisted deposition of graphene oxide for constructing flexible gas sensor. <b>2019</b> , 286, 591-599		16
263	Roll-to-Roll Deposition of Semiconducting 2D Nanoflake Films of Transition Metal Dichalcogenides for Optoelectronic Applications. <b>2019</b> , 2, 7705-7712		15
262	Colloidal nanoparticle inks for printing functional devices: emerging trends and future prospects. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23301-23336	13	56
261	Stumbling through the Research Wilderness, Standard Methods To Shine Light on Electrically Conductive Nanocomposites for Future Healthcare Monitoring. <b>2019</b> , 13, 13627-13636		22
260	Heterogeneous Integration of 2D Materials: Recent Advances in Fabrication and Functional Device Applications. <b>2019</b> , 14, 1930009		8
259	A fully inkjet-printed transparent humidity sensor based on a TiC/Ag hybrid for touchless sensing of finger motion. <i>Nanoscale</i> , <b>2019</b> , 11, 21522-21531	7.7	36
258	Water Nanodroplet on a Hydrocarbon "Carpet"-The Mechanism of Water Contact Angle Stabilization by Airborne Contaminations on Graphene, Au, and PTFE Surfaces. <b>2019</b> , 35, 420-427		12



257	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , <b>2019</b> , 119, 478-598	68.1	294
256	Impact of MoS layer transfer on electrostatics of MoS/SiO interface. <b>2019</b> , 30, 055702		10
255	All-2D Material Inkjet-Printed Capacitors: Toward Fully Printed Integrated Circuits. <b>2019</b> , 13, 54-60		60
254	2D Metallic Transitional Metal Dichalcogenides for Electrochemical Hydrogen Evolution. <b>2019</b> , 7, 1801025		2
253	Direct exfoliation of layered materials in low-boiling point solvents using weak acid salts. <i>Carbon</i> , <b>2019</b> , 142, 261-268	10.4	13
252	Terahertz time-domain spectroscopy as a novel metrology tool for liquid-phase exfoliated few-layer graphene. <b>2019</b> , 30, 025709		8
251	Electrolyte-Gated n-Type Transistors Produced from Aqueous Inks of WS <sub>2</sub> Nanosheets. <b>2019</b> , 29, 1804387		29
250	Recent Advances in Black Phosphorus-Based Electronic Devices. <b>2019</b> , 5, 1800666		20
249	Recent Advances in Flexible Inorganic Light Emitting Diodes: From Materials Design to Integrated Optoelectronic Platforms. <b>2019</b> , 7, 1800936		46
248	Advances in Ink-Jet Printing of MnO <sub>2</sub> -Nanosheet Based Pseudocapacitors. <b>2019</b> , 3, 1800318		16
247	Recent Development of Printed Micro-Supercapacitors: Printable Materials, Printing Technologies, and Perspectives. <i>Advanced Materials</i> , <b>2020</b> , 32, e1805864	24	82
246	Excellent oxidation resistive MXene aqueous ink for micro-supercapacitor application. <b>2020</b> , 25, 563-571		124
245	Versatile high-performance inkjet-printed paper photo-actuators based on 2D materials. <b>2020</b> , 31, 025708		4
244	Functional Inks for Printable Energy Storage Applications based on 2 D Materials. <b>2020</b> , 13, 1330-1353		17
243	Advanced materials of printed wearables for physiological parameter monitoring. <b>2020</b> , 32, 147-177		59
242	Photoinduced Directional Proton Transport through Printed Asymmetric Graphene Oxide Superstructures: A New Driving Mechanism under Full-Area Light Illumination. <b>2020</b> , 30, 1907549		13
241	High-Resolution Inkjet Printing of Quantum Dot Light-Emitting Microdiode Arrays. <b>2020</b> , 8, 1901429		69
240	GaSe layered nanorods formed by liquid phase exfoliation for resistive switching memory applications. <b>2020</b> , 823, 153697		5

239	Selective stamping of laser scribed rGO nanofilms: from sensing to multiple applications. <i>2D Materials</i> , <b>2020</b> , 7, 024006	5.9	5
238	A prospective future towards bio/medical technology and bioelectronics based on 2D vdWs heterostructures. <b>2020</b> , 13, 1-17		24
237	Exfoliated CrPS with Promising Photoconductivity. <i>Small</i> , <b>2020</b> , 16, e1905924	11	19
236	Printed graphene/WS <sub>2</sub> battery-free wireless photosensor on papers. <i>2D Materials</i> , <b>2020</b> , 7, 024004	5.9	30
235	Assembling NiBe Layered Double Hydroxide 2D Thin Films for Oxygen Evolution Electrodes. <b>2020</b> , 3, 1017-1026		8
234	Recent advances in black phosphorus and transition metal dichalcogenideBased electronic and optoelectronics devices. <b>2020</b> , 251-312		2
233	Artificial Optoelectronic Synapses Based on Ferroelectric Field-Effect Enabled 2D Transition Metal Dichalcogenide Memristive Transistors. <b>2020</b> , 14, 746-754		91
232	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response.. <b>2020</b> , 10, 38205-38219		4
231	Capillary force driven printing of asymmetric Na-ion micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22083-22089	13	4
230	Vacancies on 2D transition metal dichalcogenides elicit ferroptotic cell death. <i>Nature Communications</i> , <b>2020</b> , 11, 3484	17.4	37
229	Zwitterion-assisted transition metal dichalcogenide nanosheets for scalable and biocompatible inkjet printing. <b>2020</b> , 13, 2726-2734		11
228	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. <i>Nature Communications</i> , <b>2020</b> , 11, 3566	17.4	61
227	Printed carbon nanotube thin-film transistors: progress on printable materials and the path to applications. <i>Nanoscale</i> , <b>2020</b> , 12, 23371-23390	7.7	9
226	Advancements in Therapeutics via 3D Printed Multifunctional Architectures from Dispersed 2D Nanomaterial Inks. <i>Small</i> , <b>2020</b> , 16, e2004900	11	12
225	Inkjet-Printed Ultrathin MoS <sub>2</sub> -Based Electrodes for Flexible In-Plane Microsupercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39444-39454	9.5	22
224	Inkjet and Extrusion Printing for Electrochemical Energy Storage: A Minireview. <b>2020</b> , 5, 2000217		21
223	Molten Salt-Directed Catalytic Synthesis of 2D Layered Transition-Metal Nitrides for Efficient Hydrogen Evolution. <b>2020</b> , 6, 2382-2394		67
222	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. <b>2020</b> , 2, 2000117		9

221	A general ink formulation of 2D crystals for wafer-scale inkjet printing. <b>2020</b> , 6, eaba5029		43
220	Learning from Nature: Bioinspired Chlorin-Based Photosensitizers Immobilized on Carbon Materials for Combined Photodynamic and Photothermal Therapy. <b>2020</b> , 5,		9
219	Interface-exfoliated graphene-based conductive screen-printing inks: low-loading, low-cost, and additive-free. <b>2020</b> , 10, 18047		4
218	2D materials towards ultrafast photonic applications. <b>2020</b> , 22, 22140-22156		17
217	Scalable salt-templated directed synthesis of high-quality MoS <sub>2</sub> nanosheets powders towards energetic and environmental applications. <b>2020</b> , 13, 3098-3104		9
216	Ultra-thin films of solution-exfoliated hexagonal boron nitride by Langmuir deposition. <b>2020</b> , 8, 13695-13704	2	
215	Colloidal Nanosurfactants for 3D Conformal Printing of 2D van der Waals Materials. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003081	24	10
214	Functional inks and extrusion-based 3D printing of 2D materials: a review of current research and applications. <i>Nanoscale</i> , <b>2020</b> , 12, 19007-19042	7-7	38
213	Bioelectronics-Related 2D Materials Beyond Graphene: Fundamentals, Properties, and Applications. <b>2020</b> , 30, 2003732		14
212	Advanced Nanomaterials, Printing Processes, and Applications for Flexible Hybrid Electronics. <b>2020</b> , 13,		14
211	Inkjet printing for flexible and wearable electronics. <b>2020</b> , 8, 120705		30
210	Engineering the photoresponse of liquid-exfoliated 2D materials by size selection and controlled mixing for an ultrasensitive and ultrasensitive photodetector. <b>2020</b> , 7, 3325-3338		16
209	Microfluidics for Two-Dimensional Nanosheets: A Mini Review. <b>2020</b> , 8, 1067		1
208	Inkjet-Printed Wearable Nanosystems for Self-Powered Technologies. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000015	4.6	24
207	Band alignment at interfaces of two-dimensional materials: internal photoemission analysis. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 413002	1.8	4
206	Printed High-Density and Flexible Photodetector Arrays via Size-matched Heterogeneous Micro-/Nanostructure. <b>2020</b> , 8, 2000370		8
205	3D Crumpled Ultrathin 1T MoS for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <b>2020</b> , 14, 7308-7318		55
204	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. <i>Nanoscale</i> , <b>2020</b> , 12, 12383-12394	7-7	13

203	Design and tailoring of inks for inkjet patterning of metal oxides. <b>2020</b> , 7, 200242		3
202	Ultrafast Exfoliation of 2D Materials by Solvent Activation and One-Step Fabrication of All-2D-Material Photodetectors by Electrohydrodynamic Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28840-28851	9.5	24
201	Direct synthesis of metastable phases of 2D transition metal dichalcogenides. <b>2020</b> , 49, 3952-3980		62
200	Heterostructures formed through abraded van der Waals materials. <i>Nature Communications</i> , <b>2020</b> , 11, 3047	17.4	14
199	A versatile route to edge-specific modifications to pristine graphene by electrophilic aromatic substitution. <b>2020</b> , 55, 10284-10302		3
198	Inkjet-printed graphene Hall mobility measurements and low-frequency noise characterization. <i>Nanoscale</i> , <b>2020</b> , 12, 6708-6716	7.7	8
197	Turning Trash into Treasure: Additive Free MXene Sediment Inks for Screen-Printed Micro-Supercapacitors. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000716	24	117
196	Flexible Pseudocapacitive Electrochromics via Inkjet Printing of Additive-Free Tungsten Oxide Nanocrystal Ink. <b>2020</b> , 10, 2000142		45
195	Printable Silver Nanowire and PEDOT:PSS Nanocomposite Ink for Flexible Transparent Conducting Applications. <b>2020</b> , 2, 1000-1010		28
194	Constructing an E-Nose Using Metal-Ion-Induced Assembly of Graphene Oxide for Diagnosis of Lung Cancer via Exhaled Breath. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17713-17724	9.5	20
193	MXene Printing and Patterned Coating for Device Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908486	24	116
192	Electronic devices based on solution-processed two-dimensional materials. <b>2020</b> , 351-384		2
191	Harnessing biological applications of quantum materials: opportunities and precautions. <b>2020</b> , 8, 10498-10525		2
190	Printed Electronics as Prepared by Inkjet Printing. <b>2020</b> , 13,		45
189	Metal Oxide Nanosheets as 2D Building Blocks for the Design of Novel Materials. <b>2020</b> , 26, 9084-9098		20
188	Coarse grained models of graphene and graphene oxide for use in aqueous solution. <i>2D Materials</i> , <b>2020</b> , 7, 025025	5.9	6
187	Printed gas sensors. <b>2020</b> , 49, 1756-1789		106
186	Niobium-doped TiS: Formation of TiS nanobelts and their effects in enzymatic biosensors. <b>2020</b> , 155, 112114		13

185	Ultrafast Electrochemical Synthesis of Defect-Free In Se Flakes for Large-Area Optoelectronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907244	24	38
184	Drying-Mediated Self-Assembly of Graphene for Inkjet Printing of High-Rate Micro-supercapacitors. <b>2020</b> , 12, 40		25
183	Palladium catalysed C-H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. <i>Chemical Science</i> , <b>2020</b> , 11, 2472-2478	9.4	5
182	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
181	Versatile strategy for making 2D materials. <b>2020</b> , 577, 477-478		8
180	All-Inkjet-Printed Flexible Nanobio-Devices with Efficient Electrochemical Coupling Using Amphiphilic Biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24231-24241	9.5	14
179	Functional hetero-interfaces in atomically thin materials. <b>2020</b> , 37, 74-92		10
178	Engineering Two-dimensional Nanomaterials to Enable Structure-Activity Relationship Studies in Nanosafety Research. <b>2020</b> , 18, 100226-100226		6
177	Large-area 2D TMD layers for mechanically reconfigurable electronic devices. <b>2020</b> , 53, 313002		11
176	Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics. <b>2020</b> , 10, 5435-5488		47
175	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <b>2021</b> , 115, 100708		49
174	On the relationship between morphology and conductivity in nanosheet networks. <i>Carbon</i> , <b>2021</b> , 171, 306-319	10.4	11
173	Stacking of 2D Materials. <b>2021</b> , 31, 2007810		42
172	All-2D architectures toward advanced electronic and optoelectronic devices. <b>2021</b> , 36, 101026		15
171	Fabrication of graphitic carbon nitride films by inkjet printing. <b>2021</b> , 610, 125919		1
170	Sand-Milling Exfoliation of Structure Controllable Graphene for Formulation of Highly Conductive and Multifunctional Graphene Inks. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2000888	4.6	5
169	Additive-Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. <i>Small</i> , <b>2021</b> , 17, 2006376	11	26
168	Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. <b>2021</b> , 227, 46-60		6

167	Structure, Preparation, and Applications of 2D Material-Based Metal Semiconductor Heterostructures. <b>2021</b> , 2, 2000093		36
166	Wafer-scale vertical van der Waals heterostructures. <b>2021</b> , 3, 3-21		48
165	Architected graphene and its composites: Manufacturing and structural applications. <b>2021</b> , 140, 106177		11
164	Patchable and Implantable 2D Nanogenerator. <i>Small</i> , <b>2021</b> , 17, e1903519	11	15
163	Solution-processed two-dimensional materials for next-generation photovoltaics. <b>2021</b> , 50, 11870-11965		21
162	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. <b>2021</b> , 50, 11381-11485		23
161	Hydrogenated Graphene Improves Neuronal Network Maturation and Excitatory Transmission. <b>2021</b> , 5, e2000177		4
160	Elastic flow instabilities and macroscopic textures in graphene oxide lyotropic liquid crystals. <b>2021</b> , 5,		7
159	Scalable nanomanufacturing of chalcogenide inks: a case study on thermoelectric $\text{V}_2\text{VI}$ nanoplates. <i>Journal of Materials Chemistry A</i> ,	13	2
158	Satisfiability Attack-Resistant Camouflaged Two-Dimensional Heterostructure Devices. <b>2021</b> , 15, 3453-3467		12
157	An ion-selective crown ether covalently grafted onto chemically exfoliated MoS <sub>2</sub> as a biological fluid sensor. <i>Nanoscale</i> , <b>2021</b> , 13, 8948-8957	7-7	3
156	Air stable conductivity of black phosphorous/graphitic carbon nitride blends. <b>2021</b> , 9, 6404-6408		1
155	Hybrid MoS <sub>2</sub> /PEDOT:PSS transporting layers for interface engineering of nanoplatelet-based light-emitting diodes. <b>2021</b> , 50, 9208-9214		1
154	Production of graphene and other two-dimensional nanosheets by liquid phase exfoliation. <b>2021</b> , 251-314		
153	Kinetics of the thermal reduction process in graphene oxide thin films from in-situ transport measurements. <b>2021</b> , 8, 015601		2
152	Few-layered two-dimensional molecular crystals for organic artificial visual memories with record-high photoresponse.		5
151	Liquid Metals-Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screen-Printed Energy Storage Applications. <b>2021</b> , 31, 2010320		11
150	Additive manufacturing and applications of nanomaterial-based sensors. <b>2021</b> , 48, 135-135		14

149	Additive-free Aqueous Dispersions of Two-Dimensional Materials with Glial Cell Compatibility and Enzymatic Degradability. <b>2021</b> , 27, 7434-7443		2
148	In Situ Ultrafast and Patterned Growth of Transition Metal Dichalcogenides from Inkjet-Printed Aqueous Precursors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100260	24	14
147	Drop-on-demand printing of edge-enhanced and conductive graphene twin-lines by coalescence regulation and multi-layers overwriting. <i>2D Materials</i> , <b>2021</b> , 8, 035004	5.9	1
146	A Review on Materials and Technologies for Organic Large-Area Electronics. <b>2021</b> , 6, 2001016		7
145	Design and Fabrication of a New Wearable Pressure Sensor for Blood Pressure Monitoring. <b>2021</b> , 21,		2
144	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <b>2021</b> , 43, 99-131		29
143	Liquid-Exfoliated 2D Materials for Optoelectronic Applications. <b>2021</b> , 8, e2003864		23
142	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <b>2021</b> , 8, e2003834		13
141	Electrochemical tuning of reduced graphene oxide in printed electrolyte-gated transistors. Impact on charge transport properties. <b>2021</b> , 371, 137819		4
140	Solution-Processed MoS Film with Functional Interfaces via Precursor-Assisted Chemical Welding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12221-12229	9.5	9
139	Development of environmentally friendly inkjet printable carbon nanotube-based conductive ink for flexible sensors: effects of concentration and functionalization. <b>2021</b> , 32, 12648-12660		1
138	Enhanced Triboelectric Nanogenerator Based on Tungsten Disulfide via Thiolated Ligand Conjugation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21299-21309	9.5	6
137	Tunable capacitance in all-inkjet-printed nanosheet heterostructures. <b>2021</b> , 36, 318-325		8
136	Impact of Pretreatment of the Bulk Starting Material on the Efficiency of Liquid Phase Exfoliation of WS. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	0
135	Applications of two-dimensional materials in food packaging. <b>2021</b> , 110, 443-457		9
134	Printable and recyclable carbon electronics using crystalline nanocellulose dielectrics.. <b>2021</b> , 4, 261-268		19
133	2D/2D Heterostructures: Rational Design for Advanced Batteries and Electrocatalysis. <i>Energy and Environmental Materials</i> ,	13	12
132	Flexible and Wearable Graphene-Based E-Textiles. <b>2021</b> , 21-49		5

131	Recent Advancement of Emerging Nano Copper-Based Printable Flexible Hybrid Electronics. <b>2021</b> , 15, 6211-6232		16
130	Black Phosphorus-Molybdenum Disulfide Hetero-Junctions Formed with Ink-Jet Printing for Potential Solar Cell Applications with Indium-Tin-Oxide. <b>2021</b> , 11, 560		3
129	Synaptic devices based neuromorphic computing applications in artificial intelligence. <b>2021</b> , 18, 100393		31
128	1/f Noise Characterization of Bilayer MoS <sub>2</sub> Field-Effect Transistors on Paper with Inkjet-Printed Contacts and hBN Dielectrics. <b>2021</b> , 7, 2100283		1
127	Direct Organometallic Synthesis of Carboxylate Intercalated Layered Zinc Hydroxides for Fully Exfoliated Functional Nanosheets. <b>2021</b> , 31, 2102631		4
126	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. <i>Nanomaterials</i> , <b>2021</b> , 11,	5-4	3
125	Polymer-Assisted High-Resolution Printing Techniques for Colloidal Quantum Dots. <b>2021</b> , 29, 391-401		2
124	Integrating van der Waals materials on paper substrates for electrical and optical applications. <b>2021</b> , 23, 101012		3
123	Environmentally Friendly Graphene Inks for Touch Screen Sensors. <b>2021</b> , 31, 2103287		10
122	2D nanomaterials in 3D/4D-printed biomedical devices. 1		1
121	Low temperature chemical sintering of inkjet-printed Zn nanoparticles for highly conductive flexible electronic components. <i>Npj Flexible Electronics</i> , <b>2021</b> , 5,	10.7	7
120	Recent advances in printable carbon nanotube transistors for large-area active matrices. 1-17		0
119	Inkjet Printing of Perovskite Nanosheets for Microcapacitors. <b>2021</b> , 7, 2100402		4
118	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <b>2021</b> , 7, 1887-1902		8
117	Large-Scale Uniform-Patterned Arrays of Ultrathin All-2D Vertical Stacked Photodetector Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34696-34704	9.5	2
116	Transport properties in partially overlapping van der Waals junctions through a multiscale investigation. <b>2021</b> , 104,		3
115	Probing Electronic Properties of CVD Monolayer Hexagonal Boron Nitride by an Atomic Force Microscope. <b>2021</b> , 8,		
114	Optimization Strategies for High Photoluminescence Quantum Yield of Monolayer Chemical Vapor Deposition Transition Metal Dichalcogenides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44814-44823	8.5	0



113	Graphene quantum dots assisted exfoliation of atomically-thin 2D materials and as-formed 0D/2D van der Waals heterojunction for HER. <i>Carbon</i> , <b>2021</b> , 184, 554-561	10.4	4
112	Alternately aligned 2D heterostructures enabled by d-spacing accessible, highly periodic accordion-like graphene oxide frameworks. <b>2021</b> , 64, 1457-1467		2
111	Dispersant-assisted liquid-phase exfoliation of 2D materials beyond graphene. <i>Nanoscale</i> , <b>2021</b> , 13, 460-474		26
110	Integrating superconducting van der Waals materials on paper substrates. <b>2021</b> , 2, 3274-3281		2
109	Up-scalable emerging energy conversion technologies enabled by 2D materials: from miniature power harvesters towards grid-connected energy systems. <b>2021</b> , 14, 3352-3392		6
108	Assessing the Adverse Effects of Two-Dimensional Materials Using Cell Culture-Based Models. <b>2019</b> , 1-46		1
107	Fabrication of hybrid graphene/CdS quantum dots film with the flexible photo-detecting performance. <b>2020</b> , 124, 114216		9
106	Water-based highly conductive graphene inks for fully printed humidity sensors. <b>2020</b> , 53, 455304		12
105	MXenes for future nanophotonic device applications. <b>2020</b> , 9, 1831-1853		10
104	2D material hybrid heterostructures: achievements and challenges towards high throughput fabrication.		1
103	Ink-jet printing and drop-casting deposition of 2H-phase SnSe and WS <sub>2</sub> nanoflake assemblies for thermoelectric applications. <b>2021</b> , 33,		
102	Synthesis of emerging two-dimensional (2D) materials [Advances, challenges and prospects. <b>2021</b> , 30, 100305		5
101	A Universal Approach for Room-Temperature Printing and Coating of 2D Materials. <i>Advanced Materials</i> , <b>2021</b> , e2103660	24	2
100	Bioresponsive, Electroactive, and Inkjet-Printable Graphene-Based Inks. <b>2022</b> , 32, 2105028		5
99	2D materials inks toward smart flexible electronics. <b>2021</b> , 50, 116-116		14
98	Inkjet-Printed MoS <sub>2</sub> Transistors with Predominantly Intraflake Transport.. <b>2021</b> , 5, e2100634		5
97	Advances in Studies of Boron Nitride Nanosheets and Nanocomposites for Thermal Transport and Related Applications. <b>2021</b> ,		3
96	Insights into the exfoliation mechanism of pyrene-assisted liquid phase exfoliation of graphene from lateral size-thickness characterisation. <i>Carbon</i> , <b>2022</b> , 186, 550-559	10.4	2

95	Functional 2D MXene Inks for Wearable Electronics. <b>2021</b> , 14,		4
94	Defect-Free Metal Deposition on 2D Materials via Inkjet Printing Technology. <i>Advanced Materials</i> , <b>2021</b> , e2104138	24	8
93	Scalably Nanomanufactured Atomically Thin Materials-Based Wearable Health Sensors. 2100120		3
92	The electrical conductivity of solution-processed nanosheet networks. <i>Nature Reviews Materials</i> ,	73.3	21
91	Conductive Paintable 2D Layered MoS <sub>2</sub> Inks. <b>2020</b> , 9, 093015		1
90	Molecular Approach to Engineer Two-Dimensional Devices for CMOS and beyond-CMOS Applications. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	7
89	Thermodynamic Perspective on the Broad Solvent Window for Liquid-Phase Exfoliation of Two-Dimensional van der Waals Solids. <i>Journal of Physical Chemistry C</i> ,	3.8	
88	Nanomaterials in transistors. <b>2021</b> ,		
87	All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors.		3
86	Electronic Transport in 2D-Based Printed FETs from a Multiscale Perspective. 2100972		1
85	Microfluidics-Enabled Soft Manufacture of Materials with Tailorable Wettability.. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	8
84	Cyclic production of biocompatible few-layer graphene ink with in-line shear-mixing for inkjet-printed electrodes and Li-ion energy storage. <b>2022</b> , 6,		1
83	Fabrication Technologies for the On-Chip Integration of 2D Materials.. <b>2022</b> , e2101435		8
82	A graphene-printed paper electrode for determination of H <sub>2</sub> O <sub>2</sub> in municipal wastewater during the COVID-19 pandemic. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 1362-1370	3.6	0
81	Strain-Engineered Adhesion and Reversible Transfer Printing of Water Droplets and Nanoparticles.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	
80	Prospective Advances in MXene Inks: Screen Printable Sediments for Flexible Micro-Supercapacitor Applications. <i>Journal of Materials Chemistry A</i> ,	13	6
79	Hetero-Integration of Silicon Nanomembranes with 2D Materials for Bioresorbable, Wireless Neurochemical System.. <i>Advanced Materials</i> , <b>2022</b> , e2108203	24	3
78	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	28

77	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics.. <i>Advanced Materials</i> , <b>2021</b> , e2106110	24	10
76	Two-dimensional Material based Printed Photonics: A Review. <i>2D Materials</i> ,	5.9	1
75	A Novel Pre-Deposition Assisted Strategy for Inkjet Printing Graphene-Based Flexible Pressure Sensor with Enhanced Performance. <i>SSRN Electronic Journal</i> ,	1	
74	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes.. <i>Science</i> , <b>2022</b> , 375, 852-859	33.3	21
73	Growing Biomorphic Transition Metal Dichalcogenides and Their Alloys towards High Permeable Membranes and Efficient Electrocatalysts Applications. <i>Energy and Environmental Materials</i> ,	13	
72	Electrolyte-Gated Organic Field-Effect Transistors for Quantitative Monitoring of the Molecular Dynamics of Crystallization at the Solid-Liquid Interface.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	1
71	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. <i>Advanced Photonics Research</i> , 2100342	1.9	3
70	Challenges, Prospects, and Emerging Applications of Inkjet-Printed Electronics: A Chemist's Point of View. <i>Angewandte Chemie</i> ,	3.6	
69	Challenges and Prospects of Inkjet Printed Electronics Emerging Applications - a Chemist point of view.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	3
68	Aerosol-Printed MoS Ink as a High Sensitivity Humidity Sensor.. <i>ACS Omega</i> , <b>2022</b> , 7, 9388-9396	3.9	2
67	Spontaneous formation of gold nanoparticles on MoS nanosheets and its impact on solution-processed optoelectronic devices.. <i>IScience</i> , <b>2022</b> , 25, 104120	6.1	0
66	Design Principles and Insights into the Liquid-Phase Exfoliation of Alpha-MoO <sub>3</sub> for the Production of Colloidal 2D Nano-inks in Green Solvents. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 404-415	3.8	0
65	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets.. <i>Small</i> , <b>2021</b> , e2106035	11	2
64	Ink Formulation and Printing Parameters for Inkjet Printing of Two Dimensional Materials: A Mini Review.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
63	MXene/TMD Nanohybrid for the Development of Smart Electronic Textiles Based on Physical Electromechanical Sensors. <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2101687	4.6	4
62	Influence of C=O groups on the optical extinction coefficient of graphene exfoliated in liquid phase. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> ,	1.8	0
61	Highly Conductive Films by Rapid Photonic Annealing of Inkjet Printable Starch/Graphene Ink. <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2101884	4.6	0
60	Scalable and low-cost fabrication of flexible WS <sub>2</sub> photodetectors on polycarbonate. <i>Npj Flexible Electronics</i> , <b>2022</b> , 6,	10.7	2

59	CuxS Thin Films for Printed Memory Cells and Temperature Sensors. <i>Flexible and Printed Electronics</i> , 3.1		
58	2D Transition Metal Dichalcogenides Trigger Trained Immunity in Human Macrophages through Epigenetic and Metabolic Pathways.. <i>Small</i> , <b>2022</b> , e2107816	11	1
57	High Precision 3D Printing for Micro to Nano Scale Biomedical and Electronic Devices.. <i>Micromachines</i> , <b>2022</b> , 13,	3.3	2
56	A novel pre-deposition assisted strategy for inkjet printing graphene-based flexible pressure sensor with enhanced performance. <i>Carbon</i> , <b>2022</b> ,	10.4	1
55	Electronic Tattoos. <b>2022</b> ,		0
54	Vibrational spectroscopy on solution-dispersed MoS2 for inkjet-printed photodetectors. <i>Emergent Materials</i> , <b>2022</b> , 5, 477-487	3.5	2
53	Revisiting Solution-Based Processing of van der Waals Layered Materials for Electronics. <i>ACS Materials Au</i> ,		0
52	Nanopatterning Technologies of Two-Dimensional Materials for Integrated Electronic and Optoelectronic Devices.. <i>Advanced Materials</i> , <b>2022</b> , e2200734	24	3
51	Atomic and structural modifications of two-dimensional transition metal dichalcogenides for various advanced applications. <i>Chemical Science</i> ,	9.4	1
50	Circuit Level Memory Technologies and Applications based on 2D Materials. <i>Advanced Materials</i> , 22023714	14	1
49	Two-dimensional material inks. <i>Nature Reviews Materials</i> ,	73.3	11
48	Engineering van der Waals Materials for Advanced Metaphotonics. <i>Chemical Reviews</i> ,	68.1	2
47	Inkjet-printed TMDC/graphene heterostructures for flexible and broadband photodetectors. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 234303	2.5	0
46	Room-temperature high-precision printing of flexible wireless electronics based on MXene inks. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	9
45	Recent progress in 2D hybrid heterostructures from transition metal dichalcogenides and organic layers: properties and applications in energy and optoelectronics fields. <i>Nanoscale</i> ,	7.7	1
44	Printing of MXene-based materials and the applications: a state-of-the-art review. <i>2D Materials</i> ,	5.9	
43	CHAPTER 14. Fully-printed Electronics Technologies. <b>2022</b> , 630-644		
42	Two-dimensional Materials based Printed Photodetectors. <b>2022</b> , 2, 160-175		

41	Recent Progress in Phase Regulation, Functionalization, and Biosensing Applications of Polyphase MoS <sub>2</sub> . <b>2022</b> , 18, 2202956	0
40	Emerging Electrochromic Materials and Devices for Future Displays.	7
39	Health Screening and Promotion System Based on Disease Prevention. <b>2022</b> , 2022, 1-13	
38	Conductive Inks Based on Melamine Intercalated Graphene Nanosheets for Inkjet Printed Flexible Electronics. <b>2022</b> , 12, 2936	0
37	CHAPTER 5. Printable Inorganic Materials for Printed Electronics. <b>2022</b> , 103-192	0
36	Inkjet printing of two-dimensional van der Waals materials: a new route towards emerging electronic device applications. <b>2022</b> , 7, 1161-1176	1
35	The future of solution processing toward organic semiconductor devices: a substrate and integration perspective. <b>2022</b> , 10, 12468-12486	1
34	A review of inkjet printing technology for personalized-healthcare wearable devices. <b>2022</b> , 10, 14091-14115	1
33	Recent Advances in 2D-MXene Based Nanocomposites for Optoelectronics. 2200556	4
32	Interface Capture Effect Printing Atomic-thick Two-dimensional Semiconductor Thin Film. 2207392	0
31	Inkjet-printed, large-area, flexible photodetector array based on electrochemical exfoliated MoS <sub>2</sub> film for photoimaging.	1
30	All inkjet-printed electronics based on electrochemically exfoliated two-dimensional metal, semiconductor, and dielectric. <b>2022</b> , 6,	1
29	Functional Ink Formulation for Printing and Coating of Graphene and Other 2D Materials: Challenges and Solutions. 2200040	0
28	Solution processed, vertically stacked hetero-structured diodes based on liquid-exfoliated WS <sub>2</sub> nanosheets: from electrode-limited to bulk-limited behavior. <b>2022</b> , 14, 15679-15690	0
27	Recent Developments of Inkjet-Printed Flexible Energy Storage Devices. 2201051	0
26	Direct Inkjet 3D Printing Microwires with Small Feature Size by Freezing, Sublimation, and Evaporation Induced Colloidal Nanoparticles Self-Assembly Mechanism. 2201132	0
25	Thermal Inkjet Printing: Prospects and Applications in the Development of Medicine. <b>2022</b> , 10, 108	2
24	Anisotropic Thermal Conductivity of Inkjet-Printed 2D Crystal Films: Role of the Microstructure and Interfaces. <b>2022</b> , 12, 3861	0

- 23 Nanoscale insights into the structure of solution-processed graphene by x-ray scattering. **2023**, 10, 015006 ○
- 22 Fully Printed and Flexible Schottky Diodes Based on Carbon Nanomaterials Operating Up to 5 MHz. **2022**, 1, 153-158 1
- 21 Large-scale Ultra-robust MoS<sub>2</sub> Patterns Directly Synthesized on Polymer Substrate for Flexible Sensing Electronics. 2207447 1
- 20 Engineering graphene-based electrodes for optical neural stimulation. ○
- 19 Solution-processed 2D materials on paper substrates for photodetection and photomechanical applications. **2022**, 10, 18326-18335 ○
- 18 MXene-Based Ink Design for Printed Applications. **2022**, 12, 4346 ○
- 17 Etch and Print: Graphene-Based Diodes for Silicon Technology. ○
- 16 Printed Electronics Based on 2D Material Inks: Preparation, Properties, and Applications toward Memristors. 2201156 ○
- 15 Multiscale Simulations of 2-D Material Ink-Based Printed Network Devices. **2023**, 1-6 ○
- 14 Graphene based nano-inks for electronic industries. **2023**, 197-226 ○
- 13 Wearable chemical sensors based on 2D materials for healthcare applications. ○
- 12 3D printing of 2D nano-inks for multifarious applications. **2023**, 91-124 ○
- 11 Introduction to smart multifunctional metal nano-inks. **2023**, 3-26 ○
- 10 Solvent-free fabrication of broadband WS<sub>2</sub> photodetectors on paper. **2023**, 6, 220101-220101 ○
- 9 Water-based 2-dimensional anatase TiO<sub>2</sub> inks for printed diodes and transistors. **2023**, 15, 5689-5695 ○
- 8 Graphene-interfaced flexible and stretchable micro-nano electrodes: from fabrication to sweat glucose detection. ○
- 7 Solution-Processed Flexible Transparent Electrodes for Printable Electronics. **2023**, 17, 4180-4192 ○
- 6 Inkjet-Printed MoS<sub>2</sub> Nanoplates on Flexible Substrates for High-Performance Field Effect Transistors and Gas Sensing Applications. **2023**, 6, 3236-3244 ○

- 5 All-Carbon Thin-Film Transistors Using Water-Only Printing. **2023**, 23, 2100-2106
- 4 Inkjet Printing Flexible Thermoelectric Devices Using Metal Chalcogenide Nanowires.
- 3 In situ Raman study of the crystallization of glycine.
- 2 Morphological Characterisation of Printed Nanostructured Networks using High-resolution 3D FIB-SEM Nanotomography.
- 1 Design and advanced manufacturing of electromagnetic interference shielding materials. **2023**,