

CITATION REPORT

List of articles citing

Production and processing of graphene and related materials

DOI: 10.1088/2053-1583/ab1e0a
2D Materials, 2020, 7, 022001.

Source: <https://exaly.com/paper-pdf/77422964/citation-report.pdf>

Version: 2024-04-29

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
264	Graphene as a Schottky Barrier Contact to AlGa _N /Ga _N Heterostructures. 2020 , 13,		5
263	Langmuir films of low-dimensional nanomaterials. 2020 , 283, 102239		6
262	Review of fabrication methods of large-area transparent graphene electrodes for industry. 2020 , 13, 91-113		13
261	Current Trends in Nanomaterials for Metal Oxide-Based Conductometric Gas Sensors: Advantages and Limitations. Part 1: 1D and 2D Nanostructures. 2020 , 10,		30
260	Growth of NiSe ₂ , NiTe ₂ and alloy NiSe _{2-x} Te _x nanosheets with tunable shape evolution and chemical composition. <i>2D Materials</i> , 2020 , 7, 041001	5.9	7
259	Synthesis of graphene. 2020 , 181-221		2
258	Mechanochemical Formation of Protein Nanofibril: Graphene Nanoplatelet Hybrids and Their Thermoelectric Properties. 2020 , 8, 17368-17378		5
257	Microwave-Induced Structural Engineering and Pt Trapping in 6R-TaS for the Hydrogen Evolution Reaction. 2020 , 16, e2003372		8
256	Doping-Induced Stacking Transition in Trilayer Graphene: Implications for Layer Stacking Manipulation. 2020 , 3, 11861-11868		3
255	Graphene: An Antibacterial Agent or a Promoter of Bacterial Proliferation?. 2020 , 23, 101787		18
254	Ethical, legal, social and economics issues of graphene. 2020 , 91, 263-279		2
253	Electronic interface and charge carrier density in epitaxial graphene on silicon carbide. A review on metal-graphene contacts and electrical gating. 2020 , 8, 100702		3
252	2D Material Enabled Offset-Patterning with Atomic Resolution. 2020 , 30, 2004370		2
251	Degradation-by-design: how chemical functionalization enhances the biodegradability and safety of 2D materials. 2020 , 49, 6224-6247		28
250	Probing the Effective Young's Modulus of Magic Angle-Inspired Multi-Functional Twisted Nano-Heterostructures. 2020 , 3, 2000129		11
249	Naturally occurring van der Waals materials. 2020 , 4,		26
248	Approaching the Limit of Electromechanical Performance in Mixed-Phase Nanocomposites. 2020 , 3, 11240-11246		36

247	Partial Reversibility of the Cytotoxic Effect Induced by Graphene-Based Materials in Skin Keratinocytes. 2020 , 10,	3
246	Optical excitations and thermoelectric properties of two-dimensional holey graphene. 2020 , 102,	12
245	Cutting Edge Materials of Two-Dimensional Platinum Diselenide. 2020 , 317-345	
244	Controlling the Morphology of Nanoflakes Obtained by Liquid-Phase Exfoliation: Implications for the Mass Production of 2D Materials. 2020 , 3, 12095-12105	8
243	Carbon nanotubes: functionalisation and their application in chemical sensors.. 2020 , 10, 43704-43732	83
242	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. 2020 , 10,	7
241	Epitaxial graphene/Ge interfaces: a minireview. 2020 , 12, 11416-11426	10
240	Supramolecular graphene π hthalocyanine assemblies for technological breakthroughs. 2020 , 8, 8344-8361	8
239	A two-fold engineering approach based on Bi ₂ Te ₃ flakes towards efficient and stable inverted perovskite solar cells. 2020 , 1, 450-462	10
238	Direct Transformation of Crystalline MoO into Few-Layers MoS. 2020 , 13,	1
237	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. 2020 , 12, 118	67
236	Covalently Functionalized MoS ₂ with Dithiolenes. 2020 , 2, 832-837	9
235	Low-Humidity Sensing Properties of Multi-Layered Graphene Grown by Chemical Vapor Deposition. 2020 , 20,	3
234	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. <i>2D Materials</i> , 2020 , 7, 035009	5.9 10
233	Electronic devices based on solution-processed two-dimensional materials. 2020 , 351-384	2
232	Optical-Based Thickness Measurement of MoO Nanosheets. 2020 , 10,	6
231	Multifunctional graphene oxide/biopolymer composite aerogels for microcontaminants removal from drinking water. 2020 , 259, 127501	17
230	Aqueous solutions of carbohydrates are new choices of green solvents for highly efficient exfoliation of two-dimensional nanomaterials. 2020 , 309, 113087	4

229	Electrochemical delamination assisted transfer of molecular nanosheets. 2020 , 12, 8656-8663		5
228	Strain engineering in single-, bi- and tri-layer MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ . 2021 , 14, 1698-1703		16
227	Molecular insights into the production of few-layer graphene in N-Cyclohexylpyrrolidone + water mixtures 2021 , 171, 723-738		1
226	Resonance intensity of the n = 1 image potential state of graphene on SiC via two-photon photoemission. 2021 , 703, 121722		1
225	On the molecular properties of graphene-pyrazines conjugated Ru and Fe complexes: Computational insights. 2021 , 26, 101694		
224	Preparation of a novel polysulfone membrane by incorporated with carbon dots grafted silica from rice husk for dye removal. 2021 , 40, 101805		8
223	Anti-pathogenic activity of graphene nanomaterials: A review. 2021 , 199, 111509		20
222	Weak Distance Dependence of Hot-Electron-Transfer Rates at the Interface between Monolayer MoS and Gold. 2021 , 15, 819-828		9
221	Recent advances on TMDCs for medical diagnosis. 2021 , 269, 120471		10
220	Inter-Flake Quantum Transport of Electrons and Holes in Inkjet-Printed Graphene Devices. 2021 , 31, 2007478		13
219	Harnessing selectivity in chemical sensing supramolecular interactions: from functionalization of nanomaterials to device applications. 2021 , 8, 2685-2708		6
218	Solution-processed two-dimensional materials for next-generation photovoltaics. 2021 , 50, 11870-11965		21
217	Scalable synthesis and purification of functionalized graphene nanosheets for water remediation. 2021 , 57, 3765-3768		3
216	Efficient Mechanical Stress Transfer in Multilayer Graphene with a Ladder-like Architecture. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4473-4484	9.5	1
215	Recent trends in graphene supercapacitors: from large area to microsupercapacitors. 2021 , 5, 1235-1254		28
214	Challenges of Coating Textiles With Graphene. 2021 ,		1
213	Graphene Roadmap Briefs (No. 2): industrialization status and prospects 2020. <i>2D Materials</i> , 2021 , 8, 022005	5.9	11
212	Plasma Assisted Reduction of Graphene Oxide Films. 2021 , 11,		3

211	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. 2021 , 16, 592-598		22
210	Microscopic theory of plasmon-enabled resonant terahertz detection in bilayer graphene. 2021 , 103,		1
209	Graphene-reinforced polymer matrix composites fabricated by in situ shear exfoliation of graphite in polymer solution: processing, rheology, microstructure, and properties. 2021 , 32, 175703		0
208	Wafer-Scale Integration of Graphene-Based Photonic Devices. 2021 , 15, 3171-3187		24
207	The Magnetization of a Composite Based on Reduced Graphene Oxide and Polystyrene. 2021 , 11,		1
206	The effect of voltage bias on the yield and electrical properties of Exfoliated Graphene synthesized via electrochemical method. 2021 , 1098, 062069		1
205	Biaxial versus uniaxial strain tuning of single-layer MoS ₂ . 2021 ,		4
204	Moiré pattern at graphene/Al (111) interface: Experiment and simulation. 2021 , 201, 109509		2
203	Bispyrene Functionalization Drives Self-Assembly of Graphite Nanoplates into Highly Efficient Heat Spreader Foils. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15509-15517	9.5	3
202	Emerging properties of non-crystalline phases of graphene and boron nitride based materials. 2021 ,		4
201	Catalytic Reduction of Organic Dyes by Multilayered Graphene Platelets and Silver Nanoparticles in Polyacrylic Acid Hydrogel. 2021 , 14,		1
200	Progress in Upscaling Organic Photovoltaic Devices. 2021 , 11, 2100342		22
199	Impact of Polymer Residue Level on the In-Plane Thermal Conductivity of Suspended Large-Area Graphene Sheets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17910-17919	9.5	1
198	Topological vectors as a fingerprinting system for 2D-material flake distributions. 2021 , 5,		2
197	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. 2021 , 125, 11857-11866		6
196	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. 2021 , 4, 5187-5197		1
195	Tunable broadband light emission from graphene. <i>2D Materials</i> , 2021 , 8, 035026	5.9	2
194	Low-Temperature Graphene-Based Paste for Large-Area Carbon Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22368-22380	9.5	14

193	Carbon Incorporation in MOCVD of MoS ₂ Thin Films Grown from an Organosulfide Precursor. 2021 , 33, 4474-4487	5
192	Optical microscopyBased thickness estimation in thin GaSe flakes. 2021 , 10, 100143	3
191	Wide-Field Super-Resolved Raman Imaging of Carbon Materials. 2021 , 8, 1801-1809	5
190	In Situ Observation of Low-Power Nano-Synaptic Response in Graphene Oxide Using Conductive Atomic Force Microscopy. 2021 , 17, e2101100	11
189	Chameleon graphene surfaces.	1
188	Investigation of multi-layered graphene/silicon Schottky junction in oxidizing atmosphere.	0
187	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. 2021 ,	8
186	Detailed thermal reduction analyses of graphene oxide via in-situ TEM/EELS studies. 2021 , 178, 477-487	8
185	Environmentally Friendly Graphene Inks for Touch Screen Sensors. 2021 , 31, 2103287	10
184	Electro-optic modulation in integrated photonics. 2021 , 130, 010901	20
183	A Review on the Applications of Graphene in Mechanical Transduction. 2021 , e2101326	9
182	Accounting Carbonaceous Counterfeits in Graphene Materials Using the Thermogravimetric Analysis (TGA) Approach. 2021 , 93, 11859-11867	2
181	Postgrowth modification of monolayer graphene films by low-pressure diborane-argon plasma. 2021 , 39, 043003	
180	Unlocking thermogravimetric analysis (TGA) in the fight against fake graphene materials. 2021 , 179, 505-513	17
179	On the Consistency of the Exfoliation Free Energy of Graphenes by Molecular Simulations. 2021 , 22,	0
178	CVD-Grown Monolayer Graphene-Based Geometric Diode for THz Rectennas. 2021 , 11,	2
177	Plasma modification of carbon nanowalls induces transition from superhydrophobic to superhydrophilic. 2021 , 32,	1
176	Shear and Breathing Modes of Layered Materials. 2021 ,	4

175	LiCl Photodissociation on Graphene: A Photochemical Approach to Lithium Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42205-42211	9.5	0
174	Strong-coupling theory of condensate-mediated superconductivity in two-dimensional materials. 2021 , 3,		1
173	Chemical Functionalization of Graphene Nanoplatelets with Hydroxyl, Amino, and Carboxylic Terminal Groups. 2021 , 3, 873-888		5
172	pH sensors based on amino-terminated carbon nanomembrane and single-layer graphene van der Waals heterostructures. 2021 , 8, 031410		4
171	Defective graphene nanosheets for drinking water purification: Adsorption mechanism, performance, and recovery. 2021 , 29, 100283		2
170	Effect of sintering atmospheres on printed silver nanoparticle patterns for flexible electronics application. 2021 , 127, 1		4
169	Mechanosynthesis of graphene nanoribbons from waste zinc-carbon batteries. 1		
168	Iron oxychloride/bovine serum albumin nanosheets for catalytic H ₂ O ₂ activation. 2021 , 624, 126793		3
167	Nitrogen-doped graphene based triboelectric nanogenerators. 2021 , 87, 106173		11
166	Black Phosphorus Nanosheet/Melamine Cyanurate Assemblies as Functional Active Layers for Artificial Synapse Memristors. 2021 , 4, 9584-9594		1
165	Improved pH-Responsive Release of Phenformin from Low-Defect Graphene Compared to Graphene Oxide. 2021 , 6, 24619-24629		0
164	Graphene foam pressure sensor based on fractal electrode with high sensitivity and wide linear range. 2021 , 182, 497-505		12
163	Nanometric and surface properties of semiconductors correlated to photocatalysis and photoelectrocatalysis applied to organic pollutants A review. 2021 , 106480		5
162	Polyelectrolyte-Assisted Dispersions of Reduced Graphite Oxide Nanoplates in Water and Their Gas-Barrier Application. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43301-43313	9.5	1
161	AFM Nanoshaving of Covalently Modified Graphite for Studying Molecular Self-Assembly under Lateral Nanoconfinement.		1
160	Time-Resolved Raman Scattering in Exfoliated and CVD Graphene Crystals. 2021 , 125, 21003-21010		0
159	Modulating nitrogen species via N-doping and post annealing of graphene derivatives: XPS and XAS examination. 2021 , 182, 593-604		18
158	Graphene for Biosensing Applications in Point-of-Care Testing. 2021 , 39, 1065-1077		21

157	Optimized graphene electrodes for contacting graphene nanoribbons. 2021 , 184, 331-339	6
156	Challenges in the design of electrochemical sensor for glyphosate-based on new materials and biological recognition. 2021 , 793, 148496	7
155	Co(III) doped-CoFe layered double hydroxide growth with graphene oxide as cataluminescence catalyst for detection of carbon monoxide. 2021 , 347, 130600	1
154	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. 2021 , 3, 3124-3135	8
153	Electronic Properties of Graphene Nanoribbons With Defects. 2021 , 20, 151-160	4
152	Graphene and water-based elastomer nanocomposites - a review. 2021 , 13, 9505-9540	4
151	Growth and characterization of 2D materials by chemical vapour deposition on liquid metal catalysts: a review. 2021 , 13, 3346-3373	12
150	Liquid-Phase Exfoliated Gallium Selenide for Light-Driven Thin-Film Transistors. 2021 , 7, 2001080	4
149	Effects of Graphite Oxide Nanoparticle Size on the Functional Properties of Layer-by-Layer Coated Flexible Foams. 2021 , 11,	11
148	Dispersant-assisted liquid-phase exfoliation of 2D materials beyond graphene. 2021 , 13, 460-484	26
147	Atomic Layer Deposition of 2D Metal Dichalcogenides for Electronics, Catalysis, Energy Storage, and Beyond. 2021 , 8, 2001677	12
146	Mechanics of free-standing inorganic and molecular 2D materials. 2021 , 13, 1443-1484	9
145	Tunable, Grating-Gated, Graphene-On-Polyimide Terahertz Modulators. 2021 , 31, 2008039	10
144	High-quality electrical transport using scalable CVD graphene. <i>2D Materials</i> , 2020 , 7, 041003	5.9 14
143	Thermal transport in amorphous graphene with varying structural quality. <i>2D Materials</i> , 2021 , 8, 015028	5.9 3
142	A system to test 2D optoelectronic devices in high vacuum. 2020 , 3, 036001	3
141	Graphene coated fabrics by ultrasonic spray coating for wearable electronics and smart textiles. 2021 , 4, 014004	5
140	Nanoelectromechanical Sensors Based on Suspended 2D Materials. 2020 , 2020, 8748602	39

139	Binding of two cationic compounds with graphene oxide: comparative analysis and observation of synergetic effect. 2021 , 28,		
138	Large-Scale Syntheses of 2-D Materials: Flash Joule Heating and Other Methods. 2021 , e2106970		11
137	(+)-Catechin-assisted graphene production by sonochemical exfoliation in water. A new redox-active nanomaterial for electromediated sensing. 2021 , 188, 369		3
136	In Situ Assembly of DNA/Graphene Oxide Nanoplates to Reduce the Fire Threat of Flexible Foams. 2021 , 8, 2101083		3
135	Interface Engineering for Perovskite Solar Cells Based on 2D-Materials: A Physics Point of View. 2021 , 14,		1
134	Bioplastics and Carbon-Based Sustainable Materials, Components, and Devices: Toward Green Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49301-49312	9.5	4
133	Valence Band Structure Engineering in Graphene Derivatives. 2021 , 17, e2104316		2
132	Chip-Scalable, Room-Temperature, Zero-Bias, Graphene-Based Terahertz Detectors with Nanosecond Response Time. 2021 ,		3
131	Three-Dimensional Superhydrophobic Hollow Hemispherical MXene for Efficient Water-in-Oil Emulsions Separation. 2021 , 11,		5
130	Graphene-Paper-Based Electrodes on Plastic and Textile Supports as New Platforms for Amperometric Biosensing. 2107941		4
129	A method for designing tunable chiral mechanical carbon networks for energy storage. 2021 , 23, 26209-26218		0
128	2D WSe ₂ Films synthesized by thermally assisted conversion method. 2021 ,		
127	Polarization-dependent optical responses in natural 2D layered mineral teallite. 2021 , 11, 21895		2
126	Fatigue Life of Austenitic Steel 304 Bolts Strengthened by Surface Treatment with Graphene Oxide Layer and Surface Shot Peening. 2021 , 14,		1
125	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. <i>2D Materials</i> , 2021 , 8, 012001	5.9	5
124	Atmospheric pressure chemical vapor deposition growth of vertically aligned SnS and SnSe nanosheets.. 2021 , 11, 36483-36493		1
123	Direct Growth of Graphene-MoS ₂ heterostructure: Tailored interface for Advanced Devices. 2021 , 581, 151858		0
122	DFT analysis of Thymine adsorption on Ti doped graphene for biosensor applications. 2021 , 2070, 012012		

121	Optoelectronic Properties of Atomically Thin MoWS Nanoflakes Probed by Spatially-Resolved Monochromated EELS.. 2021 , 11,		2
120	The development of integrated circuits based on two-dimensional materials. 2021 , 4, 775-785		26
119	Flexible and High Thermal Conductivity Composites Based on Graphite Nanoplates Paper Impregnated with Polydimethylsiloxane. 2021 , 5, 309		2
118	Conformal Graphene Directly Synthesized on a Femtosecond Laser-Scribed In-Fiber Microstructure for High-Energy Ultrafast Optical Pulses. 2021 ,		0
117	A review on sustainable production of graphene and related life cycle assessment. <i>2D Materials</i> ,	5.9	1
116	Polycaprolactone Adsorption and Nucleation onto Graphite Nanoplates for Highly Flexible, Thermally Conductive, and Thermomechanically Stiff Nanopapers. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	0
115	Combustion synthesis-aqueous hybridization of nanostructured graphene-coated silicon and its dye removal performance. 2022 , 277, 125565		1
114	Photoactive ultrathin molecular nanosheets with reversible lanthanide binding terpyridine centers. 2021 ,		1
113	Noncovalent functionalization of Ti3C2TX using cationic porphyrins with enhanced stability against oxidation.		2
112	Current challenges in nanomaterial-based sensors for online monitoring of drinking water by surface plasmon resonance. 2022 , 26, 100326		2
111	UV-Based Epoxy/Amine Reinforced with Reduced Graphene Oxide (rGO) or GLYMO-rGO: Study of Curing Kinetics, Mechanical Properties, Lamination and Bonding Performance.. 2022 , 12,		1
110	Impact of Graphene Derivatives as Artificial Extracellular Matrices on Mesenchymal Stem Cells.. 2022 , 27,		2
109	Upcycling of plastic waste to carbon nanomaterials: a bibliometric analysis (2000-2019). 1		1
108	Geometric progress in the thickness of exfoliated van der Waals crystals on the example of MoS2. 2022 , 12, 025328		
107	Impedance Spectroscopy of Encapsulated Single Graphene Layers.. 2022 , 12,		
106	Guiding Graphene Derivatization for the On-Chip Multisensor Arrays: From the Synthesis to the Theoretical Background. 2101250		0
105	Evolution of WSe2 Flakes Synthesized by Thermally Assisted Conversion Method. 2022 , 12, 353		
104	Graphene based electrodes for hydrogen fuel cells: A comprehensive review. 2022 ,		1

103	Multigraphene Prepared by One-Pot Pyrolysis of Diatomite/Polypropylene Composites. 2022 , 12, 2687		0
102	Surfactant-free starch-graphene composite films as simultaneous oxygen and water vapour barriers. 2022 , 6,		0
101	Synthesis and Nanoscale Characterization of Hierarchically Assembled Molecular Nanosheets. 2102389		
100	Transition metal dichalcogenides as catalysts for the hydrogen evolution reaction: The emblematic case of InertZrSe_2 as catalyst for electrolyzers.		1
99	Self-redox reaction of carbon in molten salt for anode materials of lithium/sodium-ion batteries. 2022 , 909, 164711		0
98	Highly Sensitive Composite Foam Bodily Sensors Based on the g-Putty Ink Soaking Procedure. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
97	Improved interfacial performance of carbon fiber/polyetherimide composites by polyetherimide and modified graphene oxide complex emulsion type sizing agent. 2022 , 34, 292-309		2
96	Topochemical Transformation of Two-Dimensional VSe into Metallic Nonlayered VO for Water Splitting Reactions in Acidic and Alkaline Media.. 2021 ,		3
95	Environment-tolerant conductive and superhydrophobic poly(m-phenylene isophthalamide) fabric prepared via Ray activation and reduced graphene oxide/nano SiO ₂ modification. 2022 , 139, 52004		
94	A Blueprint for the Synthesis and Characterization of Thiolated Graphene.. 2021 , 12,		0
93	Synthesis and Photoluminescence Properties of MoS ₂ /Graphene Heterostructure by Liquid-Phase Exfoliation.. 2022 , 7, 629-637		1
92	Uniaxially Strained Graphene: Structural Characteristics and G-Mode Splitting.. 2021 , 15,		0
91	Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru(II) Polypyridine Monolayers.. 2022 ,		
90	Graphene Related Materials and Composites: Strategies and Their Photocatalytic Applications in Environmental Remediation.		
89	Green Solvents for the Liquid Phase Exfoliation Production of Graphene: The Promising Case of Cyrene.. 2022 , 10, 878799		3
88	Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru(II) Polypyridine Monolayers.		
87	Integrated memory devices based on two-dimensional materials.. 2022 , e2201880		2
86	Exploring the structural and optoelectronic properties of natural insulating phlogopite in van der Waals heterostructures. <i>2D Materials</i> ,	5.9	2

85	Mechanical, Thermal and Electrical Properties of Epoxy Nanocomposites with Amine-Functionalized Reduced Graphene Oxide via Plasma Treatment. 2022 , 6, 153	
84	CVD Bilayer Graphene Spin Valves with 26 fm Spin Diffusion Length at Room Temperature.	0
83	The Pressing Need for Green Nanofluids: A review. 2022 , 107940	0
82	Highly Elastic Melamine Graphene/MWNT Hybrid Sponge for Sensor Applications. 2022 , 27, 3530	
81	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. 2202301	0
80	Terahertz characterization of graphene conductivity via time-domain reflection spectroscopy on metal-backed dielectric substrates. 2022 , 55, 365101	0
79	Characterization of Carbon Nanostructures by Photoelectron Spectroscopies. 2022 , 15, 4434	1
78	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm.	9
77	Graphene Metamaterial Embedded within Bundt Optenna for Ultra-Broadband Infrared Enhanced Absorption. 2022 , 12, 2131	0
76	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. 2022 , 19, 2657-2694	3
75	Estimation of the spatial distribution of carbon edge sites in a carbon structure using H ₂ desorption kinetics in temperature programmed desorption. 2022 , 196, 1054-1062	2
74	High throughput investigation of an emergent and naturally abundant 2D material: Clinocllore. 2022 , 599, 153959	2
73	Artificial photosynthesis systems for solar energy conversion and storage: platforms and their realities.	2
72	Cvd Multilayer Graphene Coated 3d-Printed Alumina Lattices.	
71	Symmetry and spacing controls in periodic covalent functionalization of graphite surfaces templated by self-assembled molecular networks.	0
70	Improved Dispersibility of Graphene in an Aqueous Solution by Reduced Graphene Oxide Surfactant: Experimental Verification and Density Functional Theory Calculation. 2022 , 38, 8222-8231	2
69	Moiré-Induced Transport in CVD-Based Small-Angle Twisted Bilayer Graphene. 2022 , 22, 5252-5259	0
68	Characterization of encapsulated graphene layers using extreme ultraviolet coherent tomography.	

67	Anomalous Bloch oscillation and electrical switching of edge magnetization in a bilayer graphene nanoribbon. 2022 , 106,		
66	Comparison of performance stability of different chemically reduced graphene oxide under long-term preservation.		
65	Graphene/Graphene Derivatives from Coal, Biomass, and Wastes: Synthesis, Energy Applications, and Perspectives.		4
64	Terahertz photodetection in scalable single-layer-graphene and hexagonal boron nitride heterostructures. <i>Applied Physics Letters</i> , 2022 , 121, 031103	3-4	
63	Liquid-Phase Exfoliation of Bismuth Telluride Iodide (BiTeI): Structural and Optical Properties of Single-/Few-Layer Flakes. <i>ACS Applied Materials & Interfaces</i> ,	9-5	2
62	Facile high-yield synthesis and purification of lysine-modified graphene oxide for enhanced drinking water purification.		0
61	Mechanochemistry: New Tools to Navigate the Uncharted Territory of Impossible Reactions.		4
60	Experimental and Computational Study of Mechanical and Thermal Characteristics of h-BN and GNP Infused Polymer Composites for Elevated Temperature Applications. 2022 , 15, 5397		0
59	10 years of research on toughness enhancement of structural ceramics by graphene. 2022 , 380,		1
58	Synthesis of Large-Area MXenes with High Yields through Power-Focused Delamination Utilizing Vortex Kinetic Energy. 2202748		1
57	Conductive Inks Based on Melamine Intercalated Graphene Nanosheets for Inkjet Printed Flexible Electronics. 2022 , 12, 2936		0
56	Defective Boron Nitride Inducing the Lithium-ion Migration on the Sub-Surface of LiBH ₄ . 2205677		
55	2D materials, synthesis, characterization and toxicity: A critical review. 2022 , 365, 110081		4
54	New insights on energetic properties of graphene oxide (GO) materials and their safety and environmental risks. 2022 , 848, 157743		0
53	Time-division Position Sensitive Detector Image System for High-speed Multitarget Trajectory Tracking. 2206638		0
52	Particle dispersions in liquid media. 2022 , 27-62		0
51	Direct fabrication of high-quality vertical graphene nanowalls on arbitrary substrates without catalysts for tidal power generation.		0
50	Printed Stretchable Graphene Conductors for Wearable Technology. 2022 , 34, 8031-8042		0

49	Resistive Switching Crossbar Arrays Based on Layered Materials. 2205402	2
48	Stable Dispersion of Graphene in Water, Promoted by High-Yield, Scalable Exfoliation of Graphite in Natural Aqueous Extracts: The Role of Hydrophobic Organic Molecules. 2022 , 10, 12552-12558	0
47	Cytotoxicity survey of commercial graphene materials from worldwide. 2022 , 6,	2
46	Two-dimensional BiTeI as a novel perovskite additive for printable perovskite solar cells.	1
45	Emerging laser-assisted vacuum processes for ultra-precision, high-yield manufacturing.	0
44	Wrinkle-mediated CVD synthesis of wafer scale Graphene/h-BN heterostructures. 2023 , 34, 025601	0
43	Establishing the excitation field in tip-enhanced Raman spectroscopy to study nanostructures within two-dimensional systems. 2023 , 10, 015002	1
42	Polyelectrolytes Enabled Reduced Graphite Oxide Water Dispersions: Effects of the Structure, Molecular Weight, and Charge Density. 2022 , 14, 4165	0
41	Indium Selenide/Indium Tin Oxide Hybrid Films for Solution-Processed Photoelectrochemical-Type Photodetectors in Aqueous Media. 2201635	1
40	Coating of Flexible PDMS Substrates through Matrix-Assisted Pulsed Laser Evaporation (MAPLE) with a New-Concept Biocompatible Graphenic Material. 2022 , 12, 3663	0
39	CVD nanocrystalline multilayer graphene coated 3D-printed alumina lattices. 2022 ,	1
38	Nanoscale insights into the structure of solution-processed graphene by x-ray scattering. 2023 , 10, 015006	0
37	Green Removal of DUV-Polarity-Modified PMMA for Wet Transfer of CVD Graphene. 2022 , 12, 4017	1
36	Carbon-Based Field-Effect Transistors. 2023 , 905-930	0
35	Influence of the filler distribution on PDMS-graphene based nanocomposites selected properties. 2022 , 12,	0
34	Atomically resolved electronic properties in single layer graphene on α -Al ₂ O ₃ (0001) by chemical vapor deposition. 2022 , 12,	0
33	Enhancing Charges Extraction In Inverted Perovskite Solar Cells Contacts Via Ultrathin Graphene:Fullerene Composite Interlayers.	2
32	Highly conductive and long-term stable films from liquid-phase exfoliated platinum diselenide.	0

31	Solution-processed 2D materials on paper substrates for photodetection and photomechanical applications. 2022 , 10, 18326-18335	0
30	On the optical extinction coefficient of 2D materials: disorder, long-range and energy harvesting applications. 2022 ,	0
29	Digital Twins Solve the Mystery of Raman Spectra of Parental and Reduced Graphene Oxides. 2022 , 12, 4209	1
28	A crack templated copper network film as a transparent conductive film and its application in organic light-emitting diode. 2022 , 12,	0
27	Understanding the Photoluminescence Quenching of Liquid Exfoliated WS ₂ Monolayers.	0
26	Graphene nano-sieves by femtosecond laser irradiation. 2023 , 34, 105302	1
25	Preparation and Application of GrapheneBased Materials for Heavy Metal Removal in Tobacco Industry: A Review. 2022 , 9, 401	1
24	Graphene FETs with high and low mobilities have universal temperature-dependent properties.	0
23	Development and characterization of active starch-based films incorporating graphene/polydopamine/Cu ²⁺ nanocomposite fillers. 2022 , 120498	0
22	Hydrogen storage using novel graphene-carbon nanotube hybrid. 2022 ,	0
21	Manifesting Epoxide and Hydroxyl Groups in XPS Spectra and Valence Band of Graphene Derivatives. 2023 , 13, 23	1
20	Electronic Circuits made of 2D Materials. 2022 , 34, 2207843	1
19	Putting High-Index Cu on the Map for High-Yield, Dry-Transferred CVD Graphene.	0
18	Concentric Graphene Metamaterial within Bundt Optenna for Ultra-Broadband and High Optical Absorption. 2022 ,	0
17	Computational Studies of Auto-Active van der Waals Interaction Molecules on Ultra-Thin Black-Phosphorus Film. 2023 , 28, 681	1
16	Generation of Defective Few-Layered Graphene Mesostructures by High-Energy Ball Milling and Their Combination with FeSiCuNbB Microwires for Reinforcing Microwave Absorbing Properties. 2023 , 15, 3507-3521	0
15	Mechanisms of Radical Formation on Chemically Modified Graphene Oxide under Near Infrared Irradiation. 2207229	0
14	A Novel Aqueous Asymmetric Supercapacitor based on Pyrene-4,5,9,10-Tetraone Functionalized Graphene as the Cathode and Annealed Ti ₃ C ₂ T _x MXene as the Anode. 2301449	0

13	(Re)framing technology: The evolution from biogas to biomethane in Austria. 2023 , 47, 100724	0
12	A carbon allotrope with twisted Dirac cones induced by grain boundaries composed of pentagons and octagons. 2023 , 25, 4230-4235	0
11	Electrochemical production of two-dimensional atomic layer materials and their application for energy storage devices. 2023 , 4, 011306	0
10	Laser Reduced Graphene Oxide Electrode for Pathogenic Escherichia coli Detection.	1
9	Raman and Far-Infrared Synchrotron Nanospectroscopy of Layered Crystalline Talc: Vibrational Properties, Interlayer Coupling, and Symmetry Crossover. 2023 , 127, 5876-5885	1
8	Tungsten Oxide Mediated Quasi-van der Waals Epitaxy of WS ₂ on Sapphire. 2023 , 17, 5399-5411	0
7	Real-Time Measure of the Lattice Temperature of a Semiconductor Heterostructure Laser via an On-Chip Integrated Graphene Thermometer. 2023 , 17, 6103-6112	0
6	International Interlaboratory Comparison of Thermogravimetric Analysis of Graphene-Related Two-Dimensional Materials. 2023 , 95, 5176-5186	0
5	Terahertz Cross-Correlation Spectroscopy and Imaging of Large-Area Graphene. 2023 , 23, 3297	1
4	Editorial Special Issue on Dielectrics for 2-D Electronics. 2023 , 70, 1451-1453	0
3	Non-Linear Conductivity Response of Graphene on Thin-Film PET Characterized by Transmission and Reflection Air-Plasma THz-TDS. 2023 , 23, 3669	0
2	Identification of Exciton Complexes in Charge-Tunable Janus WSeS Monolayers.	0
1	Synergy of Small Antiviral Molecules on a Black-Phosphorus Nanocarrier: Machine Learning and Quantum Chemical Simulation Insights. 2023 , 28, 3521	0