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1075	Electrochemical Fabrication of High Quality Graphene in Mixed Electrolyte for Ultrafast Electrothermal Heater.		
1074	Production of partially reduced graphene oxide nanosheets using a seaweed sap. 2014 , 4, 64583-64588	3	9
1073	Efficient and cost-effective graphene on silicon solar cells prepared by spray coating. 2014 , 4, 55300-55	304	10
1072	Effective production of nano-sized graphene via straight-forward exfoliation of microcrystalline graphite. 2014 , 4, 45885-45889		8
1071	Reduced graphene oxide as a highly efficient adsorbent for 1-naphthol and the mechanism thereof. 2014 , 4, 51624-51631		18
1070	Preparation of colloidal graphene in quantity by electrochemical exfoliation. 2014 , 436, 41-6		76
1069	A graphene-based electrochemical filter for water purification. 2014 , 2, 16554-16562		87
1068	Enhancing the Liquid-Phase Exfoliation of Graphene in Organic Solvents upon Addition of n-Octylbenzene. 2015 , 5, 16684		63
1067	Review of the Green Synthesis of Metal/Graphene Composites for Energy Conversion, Sensor, Environmental, and Bioelectronic Applications. 2015 , 427-465		2
1066	Graphene oxide and H2 production from bioelectrochemical graphite oxidation. 2015 , 5, 16242		18

(2015-2015)

1065	High-efficiency exfoliation of layered materials into 2D nanosheets in switchable CO2/Surfactant/H2O system. 2015 , 5, 16764	46
1064	Graphene as Transparent Electrodes for Solar Cells. 2015 , 249-280	3
1063	Electrochemistry of Graphene. 2015 , 121-162	2
1062	Kovalente Funktionalisierung von Graphen auf Substraten. 2015 , 127, 10882-10900	25
1061	One-pot synthesis of composite NiO/graphitic carbon flakes with contact glow discharge electrolysis for electrochemical supercapacitors. 2015 , 39, 1689-1697	22
1060	A Quasi-Solid-State Sodium-Ion Capacitor with High Energy Density. 2015 , 27, 6962-8	155
1059	Ultrathin Printable Graphene Supercapacitors with AC Line-Filtering Performance. 2015 , 27, 3669-75	197
1058	The Covalent Functionalization of Graphene on Substrates. 2015 , 54, 10734-50	179
1057	. 2015,	13
1056	Solution-Processed Planar Perovskite Solar Cell Without a Hole Transport Layer. 2015 , 7, 12015-21	39
1055	Structural design of graphene for use in electrochemical energy storage devices. 2015 , 44, 6230-57	343
1054	In Situ Electrochemical Synthesis and Deposition of Discotic Hexa-peri-hexabenzocoronene Molecules on Electrodes: Self-Assembled Structure, Redox Properties, and Application for Supercapacitor. 2015 , 11, 3028-34	21
1053	Solvation effect on intercalation behaviour of tetrafluoroborate into graphite electrode. 2015 , 278, 452-457	93
1052	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. 2015 , 3, 18753-18808	446
1051	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. 2015 , 6, 8817	151
1050	Challenges and opportunities for graphene as transparent conductors in optoelectronics. 2015 , 10, 681-700	58
1049	Electrochemical performance improvement of N-doped graphene as electrode materials for supercapacitors by optimizing the functional groups. 2015 , 5, 12583-12591	14
1048	One-step electrochemical synthesis of preferentially oriented (111) Pd nanocrystals supported on graphene nanoplatelets for formic acid electrooxidation. 2015 , 282, 471-478	31

1047	Preparation of Metal-Free Nitrogen-Doped Graphene Via Direct Electrochemical Exfoliation of Graphite in Ammonium Nitrate. 2015 , 68, 830	17
1046	Controlled porous structures of graphene aerogels and their effect on supercapacitor performance. 2015 , 7, 4386-93	143
1045	Ni0.31Co0.69S2 nanoparticles uniformly anchored on a porous reduced graphene oxide framework for a high-performance non-enzymatic glucose sensor. 2015 , 3, 4922-4930	49
1044	How to get between the sheets: a review of recent works on the electrochemical exfoliation of graphene materials from bulk graphite. 2015 , 7, 6944-56	254
1043	Electrochemical exfoliation of graphite to produce graphene using tetrasodium pyrophosphate. 2015 , 5, 24846-24852	34
1042	FeCl3 intercalated few-layer graphene for high lithium-ion storage performance. 2015 , 3, 15498-15504	30
1041	Alternating Stacked Graphene-Conducting Polymer Compact Films with Ultrahigh Areal and Volumetric Capacitances for High-Energy Micro-Supercapacitors. 2015 , 27, 4054-61	249
1040	Controlling the properties of graphene produced by electrochemical exfoliation. 2015 , 26, 335607	34
1039	High quality, low oxygen content and biocompatible graphene nanosheets obtained by anodic exfoliation of different graphite types. 2015 , 94, 729-739	63
1038	Towards the continuous production of high crystallinity graphene via electrochemical exfoliation with molecular in situ encapsulation. 2015 , 7, 15362-73	94
1037	A green and facile method toward synthesis of waste paper-derived 3D functional porous graphene via in situ activation of cobalt(II). 2015 , 3, 16072-16078	24
1036	Graphene-based protein biomarker detection. 2015 , 7, 725-42	26
1035	Delamination of graphite in a high pressure homogenizer. 2015 , 5, 57328-57338	52
1034	Facile strategy for the synthesis of non-covalently bonded and para-toluene sulfonic acid-functionalized fibrous polyaniline@grapheneBVC nanocomposite for the removal of Congo red. 2015, 39, 7004-7011	21
1033	Synthesis of functionalized few-layer graphene through fast electrochemical expansion of graphite. 2015 , 753, 42-46	19
1032	Liquid Phase Exfoliation of Two-Dimensional Materials by Directly Probing and Matching Surface Tension Components. 2015 , 15, 5449-54	342
1031	Graphene as a transparent electrode for amorphous silicon-based solar cells. 2015 , 117, 243102	11
1030	Aqueous Rechargeable Battery Based on Zinc and a Composite of LiNi1/3Co1/3Mn1/3O2. 2015 , 2, 1024-1030	53

(2015-2015)

1029	cells. 2015 , 71, 387-395		85
1028	One-pot electrochemical gram-scale synthesis of graphene using deep eutectic solvents and acetonitrile. 2015 , 274, 213-223		34
1027	Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. 2015 , 89, 188-196		35
1026	Preparation and characterization of LbL films based on graphene oxide nanoparticles interacting with 3-n-propylpyridinium silsesquioxane chloride. 2015 , 275, 2-8		6
1025	Low defect concentration few-layer graphene using a two-step electrochemical exfoliation. 2015 , 26, 105602		40
1024	Reverse-Micelle-Induced Exfoliation of Graphite into Graphene Nanosheets with Assistance of Supercritical CO2. 2015 , 27, 3262-3272		66
1023	Bioapplication of graphene oxide derivatives: drug/gene delivery, imaging, polymeric modification, toxicology, therapeutics and challenges. 2015 , 5, 42141-42161		142
1022	Highly conductive polymer composites incorporated with electrochemically exfoliated graphene fillers. 2015 , 5, 36456-36460		10
1021	Efficient coupling of nanoparticles to electrochemically exfoliated graphene. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5576-81	-4	69
1020	Simple route for gram synthesis of less defective few layered graphene and its electrochemical performance. 2015 , 5, 44920-44927		32
1019	Scalable Upcycling Silicon from Waste Slicing Sludge for High-performance Lithium-ion Battery Anodes. <i>Electrochimica Acta</i> , 2015 , 173, 82-90	7	39
1018	Fabrication of high quality graphene nanosheets via a spontaneous electrochemical reaction process. 2015 , 91, 527-534		19
1017	Preparation of high-quality graphene with a large-size by sonication-free liquid-phase exfoliation of graphite with a new mechanism. 2015 , 5, 44783-44791		23
1016	Achieving extremely concentrated aqueous dispersions of graphene flakes and catalytically efficient graphene-metal nanoparticle hybrids with flavin mononucleotide as a high-performance stabilizer. 2015 , 7, 10293-307		85
1015	The use of zinc dimethacrylate functionalized graphene as a reinforcement in rubber composites. 2015 , 26, 423-431		15
1014	Engineering graphene aerogels with porous carbon of large surface area for flexible all-solid-state supercapacitors. <i>Electrochimica Acta</i> , 2015 , 165, 92-97	7	36
1013	Scalable and high-yield production of exfoliated graphene sheets in water and its application to an all-solid-state supercapacitor. 2015 , 90, 16-24		54
1012	Ultrathin Two-Dimensional Nanomaterials. 2015 , 9, 9451-69		1342

1011	Graphene-based nanocomposites for structural and functional applications: using 2-dimensional materials in a 3-dimensional world. 2015 , 2, 030205	24
1010	Electrochemical exfoliation of graphite and production of functional graphene. 2015 , 20, 329-338	202
1009	Electrochemical energy storage applications of pristine graphene produced by non-oxidative routes. 2015 , 58, 1841-1850	40
1008	Ultrahigh-throughput exfoliation of graphite into pristine 'single-layer' graphene using microwaves and molecularly engineered ionic liquids. 2015 , 7, 730-6	248
1007	Binder-free activated graphene compact films for all-solid-state micro-supercapacitors with high areal and volumetric capacitances. 2015 , 1, 119-126	70
1006	Organic Radical-Assisted Electrochemical Exfoliation for the Scalable Production of High-Quality Graphene. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13927-32	239
1005	Colloidal stabilization of graphene sheets by ionizable amphiphilic block copolymers in various media. 2015 , 5, 89447-89460	11
1004	Highly dispersible disk-like graphene nanoflakes. 2015 , 7, 15059-64	8
1003	Exfoliation of graphene via wet chemical routes. 2015 , 210, 123-132	100
1002	Effect of Hydrophobic Moieties in Water-Soluble Polymers on Physical Exfoliation of Graphene. 2015 , 48, 6628-6637	25
1001	Ultrafine nickel oxide quantum dots enbedded with few-layer exfoliative graphene for an asymmetric supercapacitor: Enhanced capacitances by alternating voltage. 2015 , 298, 241-248	67
1000	Beyond graphene: materials chemistry toward high performance inorganic functional materials. 2015 , 3, 2441-2453	65
999	A supramolecular strategy to leverage the liquid-phase exfoliation of graphene in the presence of surfactants: unraveling the role of the length of fatty acids. 2015 , 11, 1691-702	76
998	Graphene microsheets from natural microcrystalline graphite minerals: scalable synthesis and unusual energy storage. 2015 , 3, 3144-3150	40
997	Electrochemically exfoliated graphene oxide/iron oxide composite foams for lithium storage, produced by simultaneous graphene reduction and Fe(OH)3 condensation. 2015 , 84, 254-262	33
996	Transparent conductive electrodes from graphene/PEDOT:PSS hybrid inks for ultrathin organic photodetectors. 2015 , 27, 669-75	215
995	Voltage-Dependent Electronic Transport Properties of Reduced Graphene Oxide with Various Coverage Ratios. 2015 , 7, 42-50	4
994	A facile method for preparing nitrogen-doped graphene and its application in supercapacitors. 2015 , 273, 1156-1162	50

(2016-2015)

993	Soft Processing of Graphene Nanosheets by Glycine-Bisulfate Ionic-Complex-Assisted Electrochemical Exfoliation of Graphite for Reduction Catalysis. 2015 , 25, 298-305	65
992	Two-dimensional soft nanomaterials: a fascinating world of materials. 2015 , 27, 403-27	374
991	Scalable production of graphene via wet chemistry: progress and challenges. 2015 , 18, 73-78	209
990	Graphene via Molecule-Assisted Ultrasound-Induced Liquid-Phase Exfoliation: A Supramolecular Approach. 2016 , 1,	
989	Performance Enhancement of Carbon Nanomaterials for Supercapacitors. 2016 , 2016, 1-17	30
988	Electrochemical Activation of Graphite Nanosheets Decorated with Palladium Nanoparticles for High Performance Amperometric Hydrazine Sensor. 2016 , 28, 808-816	16
987	2D-Crystal-Based Functional Inks. 2016 , 28, 6136-66	315
986	Carbon Materials for Lithium Sulfur Batteries-Ten Critical Questions. 2016 , 22, 7324-51	274
985	Supramolecular Approaches to Graphene: From Self-Assembly to Molecule-Assisted Liquid-Phase Exfoliation. 2016 , 28, 6030-51	132
984	Graphene Films Using a Thermally Curable Surfactant. 2016 , 3, 1600182	14
983	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. 2016 , 12, 2741-9	93
982	Enhancing the Sensitivity of Percolative Graphene Films for Flexible and Transparent Pressure Sensor Arrays. 2016 , 26, 5061-5067	72
981	Nanoscale Mechanics of Graphene and Graphene Oxide in Composites: A Scientific and Technological Perspective. 2016 , 28, 6232-8	103
980	Layer Controllable Graphene Using Graphite Intercalation Compounds with Different Stage Numbers through Li Conversion Reaction. 2016 , 3, 1500496	4
979	Exfoliation of Layered Topological Insulators BiSe and BiTe via Electrochemistry. 2016 , 10, 11442-11448	74
978	Electrocatalytic activity enhancement of a graphene ink-coated carbon cloth cathode for oxidative treatment. <i>Electrochimica Acta</i> , 2016 , 222, 1628-1641	55
977	Layer-by-layer synthesis of metal oxide (or hydroxide)-graphene nanocomposites. The synthesis of CuO nanorods-graphene nanocomposite. 2016 ,	
976	Electrochemically Exfoliated Graphene and Graphene Oxide for Energy Storage and Electrochemistry Applications. 2016 , 22, 153-9	188

975	Dual coexisting interconnected graphene nanostructures for high performance supercapacitor applications. 2016 , 9, 2249-2256		73
974	Hybrid two-dimensional materials in rechargeable battery applications and their microscopic mechanisms. 2016 , 45, 4042-73		157
973	Graphene and its electrochemistry - an update. 2016 , 45, 2458-93		289
972	An overview of nanocomposite nanofillers and their functionalization. 2016 , 15-64		5
971	The morphology, structure and electrocatalytic ability of graphene prepared with different drying methods. 2016 , 6, 28005-28014		8
970	Preparation of graphene-nickel nanocomposite for durable micromirror application. 2016,		
969	Shear Assisted Electrochemical Exfoliation of Graphite to Graphene. 2016 , 32, 3552-9		47
968	Preparation of titanate nanosheets and nanoribbons by exfoliation of amine intercalated titanates. 2016 , 18, 12604-9		15
967	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. 2016 , 6, 39275-39283		15
966	Electrochemical activation of carbon cloth in aqueous inorganic salt solution for superior capacitive performance. 2016 , 8, 10406-14		61
965	Electrochemical Exfoliation of Graphite into Nitrogen-doped Graphene in Glycine Solution and its Energy Storage Properties. <i>Electrochimica Acta</i> , 2016 , 204, 100-107	6.7	50
964	InBitu electrochemical exfoliation of Highly Oriented Pyrolytic Graphite as a new substrate for electrodeposition of flower like nickel hydroxide: application as a new highperformance supercapacitor. <i>Electrochimica Acta</i> , 2016 , 206, 317-327	6.7	20
963	Flexible Electrode Design: Fabrication of Freestanding Polyaniline-Based Composite Films for High-Performance Supercapacitors. 2016 , 8, 11379-89		69
962	Low-voltage carbon films deposition by electro-exfoliation of graphite into graphene oxide. 2016 , 6, 84194-84199		3
961	Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. 2016 , 8, 25552-62		92
960	Insights into electrochemical behavior and anodic oxidation processing of graphite matrix in aqueous solutions of sodium nitrate. 2016 , 46, 1163-1176		12
959	A Quasi-Solid-State Li-Ion Capacitor Based on Porous TiO Hollow Microspheres Wrapped with Graphene Nanosheets. 2016 , 12, 6207-6213		99
958	Facile and Green Production of Impurity-Free Aqueous Solutions of WS Nanosheets by Direct Exfoliation in Water. 2016 , 12, 6703-6713		34

(2016-2016)

957	26, 8855-8884	72
956	Graphene Transistors Gated by Salted Proton Conductor. 2016 , 2, 1600122	10
955	Dual-Template Synthesis of 2D Mesoporous Polypyrrole Nanosheets with Controlled Pore Size. 2016 , 28, 8365-8370	119
954	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. 2016 , 109, 390-401	37
953	Improved and A Simple Approach For Mass Production of Graphene Nanoplatelets Material. 2016 , 1, 949-952	22
952	High-quality graphene via microwave reduction of solution-exfoliated graphene oxide. 2016 , 353, 1413-1416	521
951	Challenges in Liquid-Phase Exfoliation, Processing, and Assembly of Pristine Graphene. 2016 , 28, 8796-8818	97
950	2D materials for renewable energy storage devices: Outlook and challenges. 2016 , 52, 13528-13542	71
949	Facile and simultaneous synthesis of graphene quantum dots and reduced graphene oxide for bio-imaging and supercapacitor applications. 2016 , 40, 9111-9124	35
948	Physico-chemical properties of pristine graphene and its performance as electrode material for electro-Fenton treatment of wastewater. <i>Electrochimica Acta</i> , 2016 , 214, 217-230	75
947	A Toolbox of Solid-State NMR Experiments for the Characterization of Soft Organic Nanomaterials. 2016 , 88, 307-383	4
946	SYNTHESIS AND CHARACTERIZATION OF ELECTROCHEMICALLY EXFOLIATED GRAPHENE-MOLYBDOPHOSPHATE HYBRID MATERIALS FOR CHARGE STORAGE DEVICES. 6.7 Electrochimica Acta, 2016 , 217, 34-46	4
945	Functionalized Graphene from Electrochemical Exfoliation for Thermoplastic Polyurethane: Thermal Stability, Mechanical Properties, and Flame Retardancy. 2016 , 55, 10681-10689	46
944	Surface area control of nanocomposites Mg(OH)2/graphene using a cathodic electrodeposition process: high adsorption capability of methyl orange. 2016 , 6, 88315-88320	11
943	Electro-synthesized Ni coordination supermolecular-networks-coated exfoliated graphene composite materials for high-performance asymmetric supercapacitors. 2016 , 4, 16476-16483	20
942	Electrochemical Exfoliation of Graphite: Effect of Temperature and Hydrogen Peroxide Addition. <i>Electrochimica Acta</i> , 2016 , 216, 253-260	41
941	Inkjet printing of electrochemically-exfoliated graphene nano-platelets. 2016 , 220, 318-322	25
940	Colloidal preparation and electrocatalytic hydrogen production of MoS2 and WS2 nanosheets with controllable lateral sizes and layer numbers. 2016 , 8, 15262-72	54

939	Graphene suspensions for 2D printing. 2016 , 42, 438-441	11
938	2D Materials Beyond Graphene for High-Performance Energy Storage Applications. 2016 , 6, 1600671	301
937	Low-Voltage Voltammetric Electrowetting of Graphite Surfaces by Ion Intercalation/Deintercalation. 2016 , 32, 7476-84	26
936	Electrochemical exfoliation of graphene sheets from a natural graphite flask in the presence of sulfate ions at different temperatures. 2016 , 6, 64826-64831	22
935	Exfoliation of Graphene and its Application as Filler in Reinforced Polymer Nanocomposites. 2016 , 11, 7-21	2
934	Aqueous Dispersions of Graphene from Electrochemically Exfoliated Graphite. 2016 , 22, 17351-17358	28
933	Nitroaromatic explosives detection using electrochemically exfoliated graphene. 2016 , 6, 33276	38
932	Graphene-oxide films printed on rigid and flexible substrates for a wide spectrum of applications. 2016 , 50, 1065-1073	8
931	Mechanically-Assisted Electrochemical Production of Graphene Oxide. 2016 , 28, 8429-8438	67
930	Light-enhanced liquid-phase exfoliation and current photoswitching in graphene-azobenzene composites. 2016 , 7, 11090	85
929	Controllable Edge Oxidation and Bubbling Exfoliation Enable the Fabrication of High Quality Water Dispersible Graphene. 2016 , 6, 34127	18
928	Synchronous exfoliation and assembly of graphene on 3D Ni(OH) for supercapacitors. 2016 , 52, 13373-13376	22
927	Graphene in Photocatalysis: A Review. 2016 , 12, 6640-6696	605
926	Single-Step Synthesis of Halogenated Graphene through Electrochemical Exfoliation and Its Utilization as Electrodes for Zinc Bromine Redox Flow Battery. 2016 , 163, A2899-A2910	37
925	Production of Two-Dimensional Nanomaterials via Liquid-Based Direct Exfoliation. 2016 , 12, 272-93	339
924	High Pseudocapacitive Performance of MnO2 Nanowires on Recyclable Electrodes. 2016 , 9, 1020-6	11
923	Electrical behaviors of ZnO/graphene/Si and ZnO/graphene/PS composite structures obtained by spraying different volumes of graphene solution. 2016 , 122, 1	О
922	The sphere-in-contact model of carbon materials. 2016 , 22, 40	6

921 Printed Graphene-Based Electrochemical Sensors. **2016**, 163-178

920	Modication of Graphene with Polymers via Addition Chemistry. 2016 , 311-332		
919	Synthesis and in-situ functionalization of graphene films through graphite charging in aqueous Fe2(SO4)3. 2016 , 107, 379-387		11
918	New-Generation Graphene from Electrochemical Approaches: Production and Applications. 2016 , 28, 6213-21		203
917	Experimental observation of low threshold optical bistability in exfoliated graphene with low oxidation degree. 2016 , 53, 80-86		17
916	Enhanced electrochemical behavior and hydrophobicity of crystalline polyaniline@graphene nanocomposite synthesized at elevated temperature. 2016 , 87, 281-290		75
915	Materials science of graphene: a flagship perspective. 2016 , 3, 010401		14
914	Aqueous Rechargeable Zinc/Aluminum Ion Battery with Good Cycling Performance. 2016 , 8, 9022-9		94
913	Eco-friendly production of high quality low cost graphene and its application in lithium ion batteries. 2016 , 18, 1952-1964		62
912	Simultaneous sulfur doping and exfoliation of graphene from graphite using an electrochemical method for supercapacitor electrode materials. 2016 , 4, 233-240		130
911	One-step electrochemical synthesis of nitrogen and sulfur co-doped, high-quality graphene oxide. 2016 , 52, 5714-7		47
910	Structure and electrochemical properties of multilayer graphene prepared by electrochemical exfoliation of graphite in the presence of benzoate ions. 2016 , 6, 36050-36057		12
909	Scalable inkjet printing of shear-exfoliated graphene transparent conductive films. 2016 , 102, 51-57		96
908	Electrochemically exfoliated graphene/PEDOT composite films as efficient Pt-free counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016 , 194, 110-115	6.7	38
907	Electrochemical Applications of Two-Dimensional Nanosheets: The Effect of Nanosheet Length and Thickness. 2016 , 28, 2641-2651		79
906	Pulse-Reverse Electrodeposition and Micromachining of Graphene-Nickel Composite: An Efficient Strategy toward High-Performance Microsystem Application. 2016 , 8, 3969-76		19
905	Room-Temperature Intercalation and ~1000-Fold Chemical Expansion for Scalable Preparation of High-Quality Graphene. 2016 , 28, 2138-2146		82
904	Enhanced and Selective Photodetection Using Graphene-Stabilized Hybrid Plasmonic Silver Nanoparticles. 2016 , 11, 1297-1304		27

903	Thermodynamics of dye adsorption on electrochemically exfoliated graphene. 2016, 51, 4928-4941	19
902	Improving the adsorption ability of graphene sheets to uranium through chemical oxidation, electrolysis and ball-milling. 2016 , 308, 1095-1102	11
901	Stable aqueous dispersions of functionalized multi-layer graphene by pulsed underwater plasma exfoliation of graphite. 2016 , 49, 045301	4
900	Process Optimization for Pulse Reverse Electrodeposition of Graphene-Reinforced Copper Nanocomposites. 2016 , 31, 1439-1446	21
899	Vertically oriented cobalt selenide/NiFe layered-double-hydroxide nanosheets supported on exfoliated graphene foil: an efficient 3D electrode for overall water splitting. 2016 , 9, 478-483	646
898	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. 2016 , 8, 2982-98	75
897	Chemical Mass Production of Graphene Nanoplatelets in ~100% Yield. 2016 , 10, 274-9	112
896	One-step electrochemical synthesis of tunable nitrogen-doped graphene. 2016 , 4, 1233-1243	60
895	Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. 2016 , 18, 339-43	12
894	Flexible graphene electrothermal films made from electrochemically exfoliated graphite. 2016 , 51, 1043-105	1 53
893	Interplay of Structure and Dynamics in Functional Macromolecular and Supramolecular Systems As Revealed by Magnetic Resonance Spectroscopy. 2016 , 116, 1272-308	84
892	Synthesis of graphene and related two-dimensional materials for bioelectronics devices. 2017 , 89, 28-42	46
891	One-step electrochemically expanded graphite foil for flexible all-solid supercapacitor with high rate performance. <i>Electrochimica Acta</i> , 2017 , 228, 553-561	32
890	Efficient strategy of chlorine-assisted liquid-phase exfoliation of graphite. 2017 , 52, 3786-3793	5
889	A simple strategy to improve the yield of graphene nanosheets in the anodic exfoliation of graphite foil. 2017 , 115, 625-628	29
888	Facile synthesis of nitrogen-doped graphene via low-temperature pyrolysis: The effects of precursors and annealing ambience on metal-free catalytic oxidation. 2017 , 115, 649-658	209
887	Microfluidization of Graphite and Formulation of Graphene-Based Conductive Inks. 2017, 11, 2742-2755	192
886	From graphite-clay composites to graphene electrode materials: In-situ electrochemical oxidation and functionalization. 2017 , 96, 281-285	17

(2017-2017)

885	A novel strategy to simultaneously electrochemically prepare and functionalize graphene with a multifunctional flame retardant. 2017 , 316, 514-524	138
884	Soft-Template Construction of 3D Macroporous Polypyrrole Scaffolds. 2017 , 13, 1604099	28
883	An innate quinone functionalized electrochemically exfoliated graphene/Fe 3 O 4 composite electrode for the continuous generation of reactive oxygen species. 2017 , 316, 964-977	45
882	Evolution of the size and shape of 2D nanosheets during ultrasonic fragmentation. 2017 , 4, 025017	68
881	High Power In-Plane Micro-Supercapacitors Based on Mesoporous Polyaniline Patterned Graphene. 2017 , 13, 1603388	47
880	A benzoxazine surfactant exchange for atomic force microscopy characterization of two dimensional materials exfoliated in aqueous surfactant solutions. 2017 , 7, 3222-3228	8
879	Microwave reduction of graphene oxide rationalized by reactive molecular dynamics. 2017, 9, 4024-4033	20
878	Self-supported Co3O4 wire-penetrated-cage hybrid arrays with enhanced supercapacitance properties. 2017 , 19, 1459-1463	9
877	Preparation of transparent conducting films from CVD graphene by lamination and their characterization. 2017 , 12, 62-65	5
876	Photoexfoliation of two-dimensional materials through continuous UV irradiation. 2017 , 28, 125604	4
875	Efficient and thermally stable iodine doping of printed graphene nano-platelets. 2017, 117, 240-245	6
874	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. 2017 , 34, 515-523	49
873	Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. 2017 , 90, 627-648	321
872	Advances in Subcritical Hydro-/Solvothermal Processing of Graphene Materials. 2017 , 29, 1605473	44
,		
871	Facile in-situ fabrication of graphene/riboflavin electrode for microbial fuel cells. <i>Electrochimica Acta</i> , 2017 , 232, 439-444	24
	- · · · · · · · · · · · · · · · · · · ·	24 30
871	Acta, 2017 , 232, 439-444	ŕ

867	Vertically-oriented few-layer graphene supported by silicon microchannel plates as a counter electrode in dye-sensitized solar cells. 2017 , 45, 74-80	9
866	Highly Efficient High-Pressure Homogenization Approach for Scalable Production of High-Quality Graphene Sheets and Sandwich-Structured & EeO/Graphene Hybrids for High-Performance Lithium-Ion Batteries. 2017 , 9, 11025-11034	50
865	Grafoil-Scotch tape-derived highly conducting flexible substrate and its application as a supercapacitor electrode. 2017 , 9, 3593-3600	10
864	Enhancing performance of sandwich-like cobalt sulfide and carbon for quasi-solid-state hybrid electrochemical capacitors. 2017 , 5, 8981-8988	26
863	Surface State Change Effects of Electrochemically Oxidized/Reduced Glassy Carbon on Electrochemical Capacitance. 2017 , 46, 1030-1032	
862	Systematic study of the correlation between surface chemistry, conductivity and electrocatalytic properties of graphene oxide nanosheets. 2017 , 120, 165-175	29
861	Ultrafast Delamination of Graphite into High-Quality Graphene Using Alternating Currents. 2017 , 56, 6669-6675	110
860	A comparative study on different aqueous-phase graphite exfoliation methods for few-layer graphene production and its application in alumina matrix composites. 2017 , 37, 3681-3693	23
859	Thermally conductive thin films derived from defect free graphene-natural rubber latex nanocomposite: Preparation and properties. 2017 , 119, 527-534	28
858	Accordion-like graphene by a facile and green synthesis method reinforcing polyolefin nanocomposites. 2017 , 7, 31085-31092	14
857	Electrochemical performance of 3D porous Ni-Co oxide with electrochemically exfoliated graphene for asymmetric supercapacitor applications. <i>Electrochimica Acta</i> , 2017 , 246, 680-688	20
856	A quasi-solid-state Li-ion capacitor with high energy density based on Li3VO4/carbon nanofibers and electrochemically-exfoliated graphene sheets. 2017 , 5, 14922-14929	74
855	Graphene aerogels: a review. 2017 , 4, 032001	130
854	Electrochemical Exfoliation of Graphite in Aqueous Sodium Halide Electrolytes toward Low Oxygen Content Graphene for Energy and Environmental Applications. 2017 , 9, 24085-24099	74
853	Ultraschnelle Schichtabl\(\text{Sung}\) von Graphit zu qualitativ hochwertigem Graphen durch Nutzung von Wechselstrom. 2017 , 129, 6770-6776	9
852	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. 2017 , 17, 4202-4209	216
851	High-yield ball-milling synthesis of extremely concentrated and highly conductive graphene nanoplatelet inks for rapid surface coating of diverse substrates. 2017 , 120, 411-418	25
850	Antibacterial potential of electrochemically exfoliated graphene sheets. 2017 , 500, 30-43	25

(2017-2017)

849	Photoluminescence from amino functionalized graphene quantum dots prepared by electrochemical exfoliation method in the presence of ammonium ions. 2017 , 7, 18340-18346	21
848	Controllable synthesis of sandwich-like graphene-supported structures for energy storage and conversion. 2017 , 32, 1-14	12
847	Recent advances and energy-related applications of high quality/chemically doped graphenes obtained by electrochemical exfoliation methods. 2017 , 5, 7228-7242	54
846	Preparation of High-quality Graphene via Electrochemical Exfoliation in Acidic Electrolytes: A Review. <i>MRS Advances</i> , 2017 , 2, 1611-1619	2
845	Graphene-based field effect transistors as biosensors. 2017 , 3, 11-17	30
844	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. 2017 , 117, 6225-6331	2919
843	Three-dimensional graphene nanosheets supported by NiO/Si-MCP as electrode materials for high-performance supercapacitors. 2017 , 23, 2185-2191	
842	Stimulus-Responsive Micro-Supercapacitors with Ultrahigh Energy Density and Reversible Electrochromic Window. 2017 , 29, 1604491	122
841	Electrochemically exfoliating graphite into N-doped graphene and its use as a high efficient electrocatalyst for oxygen reduction reaction. 2017 , 21, 1287-1295	13
840	Safe growth of graphene from non-flammable gas mixtures via chemical vapor deposition. 2017 , 33, 285-290	3
839	Ni-doped molybdenum disulfide nanoparticles anchored on reduced graphene oxide as novel electroactive material for a non-enzymatic glucose sensor. 2017 , 244, 131-141	63
838	Graphene as initiator/catalyst in polymerization chemistry. 2017 , 67, 48-76	34
837	Single Stage Simultaneous Electrochemical Exfoliation and Functionalization of Graphene. 2017 , 9, 710-721	52
836	Facile modification of graphite sheet by novel electrochemical exfoliation/oxidant method and its adsorption of caffeine from water. 2017 , 80, 747-753	6
835	Nanofabrication strategies for advanced electrode materials. 2017, 3, 1-15	3
834	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. 2017 , 129, 15043-150)4& 5
833	Unlocking the Electrocatalytic Activity of Antimony for CO Reduction by Two-Dimensional Engineering of the Bulk Material. 2017 , 56, 14718-14722	126
832	A Double Self-Assembly Process for Versatile Reduced-Graphene-Oxide Layer Deposition and Conformal Coating on 3D Structures. 2017 , 4, 1700758	12

831	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17446-17456	-4	135
830	Unlocking the Electrocatalytic Activity of Antimony for CO2 Reduction by Two-Dimensional Engineering of the Bulk Material. 2017 , 129, 14910-14914		45
829	Graphene-enhanced electrodes for scalable supercapacitors. <i>Electrochimica Acta</i> , 2017 , 257, 372-379 6.7	7	63
828	Efficient Graphene Production by Combined Bipolar Electrochemical Intercalation and High-Shear Exfoliation. 2017 , 2, 6492-6499		11
827	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. 2017, 56, 14847-14	l85:	2 ₇₁
826	2D printed graphene conductive layers with high carrier mobility. 2017 , 17, 1655-1661		14
825	Graphene-Based Linear Tandem Micro-Supercapacitors with Metal-Free Current Collectors and High-Voltage Output. 2017 , 29, 1703034		106
824	Graphene membranes with nanoslits for seawater desalination via forward osmosis. 2017 , 19, 30551-3056	1	30
823	DC and AC Performance of Graphite Films Supercapacitors Prepared by Contact Glow Discharge Electrolysis. 2017 , 164, A2539-A2546		17
822	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. 2017 , 121, 21887-21903		22
821	Structural factors controlling size reduction of graphene oxide in liquid processing. 2017 , 125, 360-369		9
820	Stable aqueous dispersion of polymer functionalized graphene sheets from electrochemical exfoliation for anticorrosion application. 2017 , 295, 1951-1959		13
819	Solvothermal synthesis, electromagnetic and electrochemical properties of jellylike cylinder graphene-Mn3O4 composite with highly coupled effect. 2017 , 256, 256-265		14
818	Facile One-Pot Synthesis of Highly Stable Graphene Ag0 Hybrid Nanostructures with Enhanced Optical Properties. 2017 , 121, 21591-21599		5
817	Preparation of Graphene Sheets by Electrochemical Exfoliation of Graphite in Confined Space and Their Application in Transparent Conductive Films. 2017 , 9, 34456-34466		59
816	Flexible Graphene-Based Wearable Gas and Chemical Sensors. 2017 , 9, 34544-34586		437
815	Effective Network Formation of PEDOT by in-situ Polymerization Using Novel Organic Template and Nanocomposite Supercapacitor. <i>Electrochimica Acta</i> , 2017 , 247, 871-879	7	24
814	Layer-Tunable Phosphorene Modulated by the Cation Insertion Rate as a Sodium-Storage Anode. 2017 , 29, 1702372		128

813	Etched nanoholes in graphitic surfaces for enhanced electrochemistry of basal plane. 2017 , 123, 84-92	11
812	Phytic acid-assisted electrochemically synthesized three-dimensional O, P-functionalized graphene monoliths with high capacitive performance. 2017 , 9, 12601-12608	13
811	The device application of electrochemical exfoliated graphene. 2017,	
810	The role of surface chemistry in the charge storage properties of graphene oxide. <i>Electrochimica Acta</i> , 2017 , 258, 1228-1243	26
809	Electrochemical Method To Prepare Graphene Quantum Dots and Graphene Oxide Quantum Dots. 2017 , 2, 8343-8353	127
808	Electrocatalytic phenol degradation by a novel nanostructured carbon fiber brush cathode coated with graphene ink. <i>Electrochimica Acta</i> , 2017 , 258, 607-617	40
807	Template-free synthesis of two-dimensional titania/titanate nanosheets as electrodes for high-performance supercapacitor applications. 2017 , 372, 227-234	25
806	Latest advances in supercapacitors: from new electrode materials to novel device designs. 2017 , 46, 6816-6854	1120
805	Towards understanding the salt-intercalation exfoliation of graphite into graphene. 2017 , 7, 52252-52260	41
804	Scalable Self-Supported Graphene Foam for High-Performance Electrocatalytic Oxygen Evolution. 2017 , 9, 41980-41987	18
803	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. 2017 , 129, 10579-10581	39
802	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. 2017 , 56, 10443-10445	159
801	Electrochemical exfoliation of graphene and graphene-analogous 2D nanosheets. 2017 , 52, 10649-10660	39
800	Scalable Fabrication and Integration of Graphene Microsupercapacitors through Full Inkjet Printing. 2017 , 11, 8249-8256	204
799	Magnetic conductive polymer-graphene nanocomposites based supercapacitors for energy storage. 2017 , 138, 883-889	53
798	Solution-Processable High-Quality Graphene for Organic Solar Cells. 2017 , 9, 25412-25417	40
797	Morphology and Electronic Properties of Electrochemically Exfoliated Graphene. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3347-3355	26
796	Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic. 2017 , 128, 155-163	30

795	Solution Synthesis of Semiconducting Two-Dimensional Polymer via Trimerization of Carbonitrile. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11666-11669	16.4	133
794	Electrochemical Fabrication of High Quality Graphene in Mixed Electrolyte for Ultrafast Electrothermal Heater. 2017 , 29, 6214-6219		44
793	Flexible All-Solid-State Supercapacitors with High Volumetric Capacitances Boosted by Solution Processable MXene and Electrochemically Exfoliated Graphene. 2017 , 7, 1601847		298
792	Preparation of MoS2Eeduced graphene oxide (rGO) hybrid paper for catalytic applications by simple exfoliationEostacking. 2017 , 112, 8-16		47
791	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. 2017 , 29, 1604453		50
790	General overview of graphene: Production, properties and application in polymer composites. 2017 , 215, 9-28		210
789	Printed Organic and Inorganic Electronics: Devices To Systems. 2017 , 7, 147-160		26
788	Green Processing of Carbon Nanomaterials. 2017 , 29, 1602423		30
787	Efficient Electrochemical and Photoelectrochemical Water Splitting by a 3D Nanostructured Carbon Supported on Flexible Exfoliated Graphene Foil. 2017 , 29, 1604480		139
786	Scalable exfoliation and dispersion of two-dimensional materials - an update. 2017 , 19, 921-960		214
785	Nanoclay assisted electrochemical exfoliation of pencil core to high conductive graphene thin-film electrode. 2017 , 487, 156-161		46
7 ⁸ 4	Guidelines for Exfoliation, Characterization and Processing of Layered Materials Produced by Liquid Exfoliation. 2017 , 29, 243-255		282
783	Facile and Green Reduction of Graphene Oxide by a Reduced Polyoxometalate and Formation of a Nanohybrid. 2017 , 82, 186-189		1
782	One-step fast electrochemical fabrication of water-dispersible graphene. 2017 , 111, 617-621		27
781	Flexible and Stretchable Energy Storage: Recent Advances and Future Perspectives. 2017 , 29, 1603436		725
780	A cost-effective method for preparing mechanically stable anti-corrosive superhydrophobic coating based on electrochemically exfoliated graphene. 2017 , 513, 396-401		43
779	In-situ growth of graphene/polyaniline for synergistic improvement of extracellular electron transfer in bioelectrochemical systems. 2017 , 87, 195-202		61
778	Simple and rapid synthesis of ternary polyaniline/titanium oxide/graphene by simultaneous TiO2 generation and aniline oxidation as hybrid materials for supercapacitor applications. 2017 , 21, 57-68		38

777	Ni0.37Co0.63S2-reduced graphene oxide nanocomposites for highly efficient electrocatalytic oxygen evolution and photocatalytic pollutant degradation. 2017 , 21, 183-192	5
776	Ultrasonic-assisted cathodic electrochemical discharge for graphene synthesis. 2017 , 34, 978-983	18
775	Functionalization of graphene sheets by the diazonium chemistry during electrochemical exfoliation of graphite. 2017 , 111, 83-93	77
774	Fabrication of visible-light active Fe2O3-GQDs/NF-TiO2 composite film with highly enhanced photoelectrocatalytic performance. 2017 , 205, 347-356	45
773	Regulation of radicals from electrochemical exfoliation for production of graphene and its electrochemical properties. <i>Electrochimica Acta</i> , 2017 , 258, 1484-1492	17
772	Nanoscale electric discharge-induced FLG peeling off during the STM electric lithography. 2017 , 12, 793-798	
771	6. Graphene via Molecule-Assisted Ultrasound- Induced Liquid-Phase Exfoliation: A Supramolecular Approach. 2017 ,	
770	Synthetic routes to graphene preparation from the perspectives of possible biological applications. 2017 , 17-44	1
769	Green Intelligent Nanomaterials by Design (Using Nanoparticulate/2D-Materials Building Blocks) Current Developments and Future Trends. 2017 ,	1
768	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. 2018 , 10, 10330-10338	38
767	2D Black Phosphorus: from Preparation to Applications for Electrochemical Energy Storage. 2018 , 5, 1700491	109
766	One-pot synthesis of CoFeO/rGO hybrid hydrogels with 3D networks for high capacity electrochemical energy storage devices 2018 , 8, 8607-8614	34
765	Electrochemical exfoliation of graphite to stage-III graphite bisulfate flakes in low concentration sulfuric acid solution: A novel synthesis route to completely trilayer graphene suspension. 2018 , 443, 157-166	12
764	Photoexcitation-Controllable Magnetization in MagneticBemiconducting Nanohybrid Containing IFe2O3II raphene (0DIID) van der Waals Heterostructure Based on Steady-State PumpII robe Light Scattering Measurement in Magnetic Field. 2018 , 122, 6912-6917	2
763	Graphene analogues in aquatic environments and porous media: dispersion, aggregation, deposition and transformation. 2018 , 5, 1298-1340	57
762	Wrapping Nanocellulose Nets around Graphene Oxide Sheets. 2018 , 130, 8644-8649	14
761	Recent advances in phosphorene as a sensing material. 2018 , 20, 13-32	105
760	Wrapping Nanocellulose Nets around Graphene Oxide Sheets. 2018 , 57, 8508-8513	67

759	Ultrafast Electrochemical Expansion of Black Phosphorus toward High-Yield Synthesis of Few-Layer Phosphorene. 2018 , 30, 2742-2749	89
758	One-step electrochemical strategy for in-situ synthesis of S,N-codoped graphene as metal-free catalyst for oxygen reduction reaction. 2018 , 134, 316-325	48
757	Towards scale-up of graphene production via nonoxidizing liquid exfoliation methods. 2018 , 64, 3246-3276	23
756	A rationally designed self-standing VO electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. 2018 , 10, 8741-8751	23
755	Effects of ammonia on graphene preparation via microwave assisted intercalation exfoliation method. 2018 , 44, 12763-12766	8
754	Electrochemical cathode exfoliation of bulky black phosphorus into few-layer phosphorene nanosheets. 2018 , 89, 10-13	56
753	Towards flexible solid-state supercapacitors for smart and wearable electronics. 2018, 47, 2065-2129	936
752	The growth and assembly of organic molecules and inorganic 2D materials on graphene for van der Waals heterostructures. 2018 , 131, 246-257	19
751	Synthesis of Colloidal Graphene by Electrochemical Exfoliation of Graphite in Lithium Sulphate. 2018 , 5, 973-979	6
750	Anode coverage for enhanced electrochemical oxidation: a green and efficient strategy towards water-dispersible graphene. 2018 , 20, 1306-1315	24
749	Preparation of high-quality graphene using triggered microwave reduction under an air atmosphere. 2018 , 6, 1829-1835	24
748	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. 2018 , 8, 1702794	34
747	A sonoelectrochemical preparation of graphene nanosheets with graphene quantum dots for their use as a hydrogen peroxide sensor. <i>Electrochimica Acta</i> , 2018 , 261, 530-536	7
746	Designing Carbon Based Supercapacitors with High Energy Density: A Summary of Recent Progress. 2018 , 24, 7312-7329	81
745	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. 2018 , 34, 250-258	49
744	Enhanced electrical, mechanical and thermal properties by exfoliating graphene platelets of larger lateral dimensions. 2018 , 129, 191-198	23
743	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode. 2018 , 29, 095501	11
742	Ultrathin two-dimensional metallic nanomaterials. 2018 , 2, 456-467	43

741	Flexible ENi(OH)2/graphene electrode with high areal capacitance enhanced by conductive interconnection. 2018 , 737, 731-739		19
740	Largely enhanced dielectric and thermal conductive properties of novel ternary composites with small amount of nanofillers. 2018 , 163, 71-80		26
739	Recent Advances in Effective Reduction of Graphene Oxide for Highly Improved Performance Toward Electrochemical Energy Storage. 2018 , 1, 5-12		78
738	A self-healing, adaptive and conductive polymer composite ink for 3D printing of gas sensors. 2018 , 6, 6200-6207		43
737	Preparation of Expanded Graphite Using a Thermal Method. 2018, 323, 012012		2
736	Study on Industrial-Scale Fabrication of Graphene Nanoplatelets (GNPs) from Natural Graphite. 2018 , 917, 101-105		
735	Ferroelectric field-effect transistors based on solution-processed electrochemically exfoliated graphene. 2018 , 144, 90-94		13
734	A review on liquid-phase exfoliation for scalable production of pure graphene, wrinkled, crumpled and functionalized graphene and challenges. 2018 , 8, 40-71		102
733	High quality, low-oxidized graphene via anodic exfoliation with table salt as an efficient oxidation-preventing co-electrolyte for water/oil remediation and capacitive energy storage applications. 2018 , 11, 246-254		17
732	Mussel-inspired functionalization of electrochemically exfoliated graphene: Based on self-polymerization of dopamine and its suppression effect on the fire hazards and smoke toxicity of thermoplastic polyurethane. 2018 , 352, 57-69		108
731	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storage. 2018 , 67, 115-157		186
730	Ultrasonic waves and temperature effects on graphene structure fabricated by electrochemical exfoliation method. <i>Materials Chemistry and Physics</i> , 2018 , 212, 95-102	4.4	19
729	Three-dimensional carbon architectures for electrochemical capacitors. 2018 , 509, 529-545		48
728	Graphene integrating carbon fiber and hierarchical porous carbon formed robust flexible Barbon-concrete upercapacitor film. 2018 , 126, 500-506		32
727	Large-scale production of high-quality graphene sheets by a non-electrified electrochemical exfoliation method. 2018 , 126, 507-513		61
726	Eco-friendly preparation of large-sized graphene via short-circuit discharge of lithium primary battery. 2018 , 512, 489-496		6
725	Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol. 2018 , 256, 665-673		30
724	Vertically Aligned MoS2 Nanosheets Patterned on Electrochemically Exfoliated Graphene for High-Performance Lithium and Sodium Storage. 2018 , 8, 1702254		234

723	Preparation of graphene-enhanced nickel-phosphorus composite films by ultrasonic-assisted electroless plating. 2018 , 435, 617-625	36
722	Two-dimensional MoS2-graphene hybrid nanosheets for high gravimetric and volumetric lithium storage. 2018 , 437, 384-389	13
721	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. 2018 , 29, 4171-4178	12
720	Electrochemically exfoliated high-yield graphene in ambient temperature molten salts and its application for flexible solid-state supercapacitors. 2018 , 127, 392-403	56
719	Recent progress in 2D materials for flexible supercapacitors. 2018 , 27, 57-72	129
718	The electrodeposition of manganese oxide on graphite electrode in-situ exfoliated for solid state rechargeable Zn-oxygen battery. 2018 , 212, 221-224	7
717	Co-synthesis of atomic Fe and few-layer graphene towards superior ORR electrocatalyst. 2018, 12, 1-7	41
716	Recent Advances toward Achieving High-Performance Carbon-Fiber Materials for Supercapacitors. 2018 , 5, 571-582	42
715	Precursor synthesis strategy for polycyclic aromatic conjugated polymers on the application of supercapacitors. 2018 , 61, 192-199	3
714	Preliminary Study of Graphite Rod Pre-treatment in H2O2/H2SO4 Mixture Solution on the Synthesized Graphene by Electrochemical Exfoliation Method. 2018 ,	
713	Green and facile production of high-quality graphene from graphite by the combination of hydroxyl radical and electrical exfoliation 2018 , 8, 40621-40631	4
712	Electrochemical synthesis of graphene and its application in electrochemical sensing of glucose. 2018 , 5, 16487-16493	6
711	. 2018,	2
710	Supercapacitor: Instrumentation, Measurement and Performance Evaluation Techniques. 2018,	13
709	Fabrication of a Graphene-Based Paper-Like Electrode for Flexible Solid-State Supercapacitor Devices. 2018 , 165, A3481-A3486	21
708	Graphene, related two-dimensional crystals and hybrid systems for printed and wearable electronics. 2018 , 23, 73-96	71
707	Electrochemical Exfoliation of MoS Crystal for Hydrogen Electrogeneration. 2018 , 24, 18551-18555	28
706	Directional Flow-Aided Sonochemistry Yields Graphene with Tunable Defects to Provide Fundamental Insight on Sodium Metal Plating Behavior. 2018 , 12, 12255-12268	39

705	Supercapacitor Based Approach Towards Development of Graphene Sensors. 2018,	2
704	High-Yield and Damage-free Exfoliation of Layered Graphdiyne in Aqueous Phase. 2018 , 131, 756	
703	Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. 2018 , 8, 375	13
702	Effect of Sonication Time on the Production of Graphene by Electrochemical Exfoliation Method. 2018 , 1082, 012031	O
701	Carbon Nanosponge Cathode Materials and Graphite-Protected Etched Al Foil Anode for Dual-Ion Hybrid Supercapacitor. 2018 , 165, A3100-A3107	8
700	Electrochemical Properties of the Graphite Electrode after Electrochemical Exfoliation and its Application as a Substrate for Hydrogen Evolution Reaction. 2018 , 3, 10077-10084	2
699	Recent Advances in Synthesis and Assembly of van der Waals Materials. 2018, 73, 805-816	8
698	Electrochemically synthesized Ag/Graphene for electromagnetic-interference shielding. 2018, 5, 125604	4
697	High-yield scalable graphene nanosheet production from compressed graphite using electrochemical exfoliation. 2018 , 8, 14525	91
696	Graphene Ink Film Based Electrochemical Detector for Paracetamol Analysis. 2018, 7, 15	16
695	Advances in Flexible Supercapacitors for Portable and Wearable Smart Gadgets. 2018, 209-246	4
694	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. 2018 , 28, 1805255	20
693	Mechanochemically Carboxylated Multilayer Graphene for Carbon/ABS Composites with Improved Thermal Conductivity. 2018 , 10,	12
692	Printing 2D Materials. 2018 , 131-205	4
691	Promise and Challenge of Phosphorus in Science, Technology, and Application. 2018 , 28, 1803471	49
690	Combination of graphene and graphene oxide with metal and metal oxide nanoparticles in fabrication of electrochemical enzymatic biosensors. 2018 , 8, 229-239	36
689	Facile synthesis of multi-layer graphene by electrochemical exfoliation using organic solvent. 2018 , 7, 497-508	17
688	On the Role of Transition Metal Salts During Electrochemical Exfoliation of Graphite: Antioxidants or Metal Oxide Decorators for Energy Storage Applications. 2018 , 28, 1804357	25

687	Spray coating of electrochemically exfoliated graphene/conducting polymer hybrid electrode for organic field effect transistor. 2018 , 68, 399-405		4
686	Spatially resolved solid-state reduction of graphene oxide thin films. 2018 , 5, 1176-1184		10
685	Exfoliation of crystals. 2018 , 87, 882-903		4
684	Regulation of radicals from electrochemical exfoliation of a double-graphite electrode to fabricate high-quality graphene. 2018 , 6, 6257-6263		21
683	Emerging trends in 2D nanotechnology that are redefining our understanding of Nanocomposites 2018, 21, 18-40		47
682	Facile and green synthesis of highly conducting graphene paper. 2018 , 138, 108-117		43
681	Amino-functionalization of graphene nanosheets by electrochemical exfoliation technique. <i>Diamond and Related Materials</i> , 2018 , 87, 99-106	3.5	10
680	2D Materials-based Platforms for Electroanalysis Applications. 2018 , 30, 1271-1280		14
679	The role of sulfate in the chemical synthesis of graphene oxide. <i>Materials Chemistry and Physics</i> , 2018 , 215, 203-210	4.4	8
678	Electrical Breakdown-Induced Tunable Piezoresistivity in Graphene/Polyimide Nanocomposites for Flexible Force Sensor Applications. 2018 , 3, 1800113		8
677	Simultaneously Exfoliated Boron-Doped Graphene Sheets To Encapsulate Sulfur for Applications in LithiumBulfur Batteries. 2018 , 6, 9661-9670		47
676	Layered graphene/mesoporous carbon heterostructures with improved mesopore accessibility for high performance capacitive deionization. 2018 , 6, 14272-14280		60
675	Sonochemical Preparation and Subsequent Fixation of Oxygen-Free Graphene Sheets at N,N-Dimethyloctylamine-Aqua Boundary. 2018 , 2018, 1-11		9
674	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. 2018 , 28, 1706705		127
673	Facile synthesis of graphene-phthalocyanine composites as oxygen reduction electrocatalysts in microbial fuel cells. 2018 , 237, 699-707		61
672	Bilayer-rich graphene suspension from electrochemical exfoliation of graphite. 2018 , 156, 62-70		19
671	LiFePO4 Anchored on Pristine Graphene for Ultrafast Lithium Battery. 2018, 1, 3497-3504		11
670	Flexible metal-free supercapacitors based on multilayer graphene electrodes. <i>Electrochimica Acta</i> , 2018 , 285, 241-253	6.7	20

669	Development of preconcentration process of iron by using graphene adsorbent and experimental design methodology. 2018 , 143, 272-279	2
668	Enhanced Lithium Storage Performance of Liquid-Phase Exfoliated Graphene Supported WS2 Heterojunctions. 2018 , 5, 3222-3228	11
667	Facile, environmentally benign and scalable approach to produce pristine few layers graphene suitable for preparing biocompatible polymer nanocomposites. 2018 , 8, 11228	14
666	Enhanced exfoliation efficiency of graphite into few-layer graphene via reduction of graphite edge. 2018 , 138, 390-396	7
665	Conductive composites of tapioca based bioplastic and electrochemical-mechanical liquid exfoliation (emle) graphene. 2018 , 345, 012026	3
664	Toward high production of graphene flakes he review on recent developments in their synthesis methods and scalability. 2018 , 6, 15010-15026	46
663	Universal Effectiveness of Inducing Magnetic Moments in Graphene by Amino-Type sp\(\text{Defects}\). 2018 , 11,	1
662	Synthesis of Graphite Oxide with Different Surface Oxygen Contents Assisted Microwave Radiation. 2018 , 8,	13
661	One-Step Green Hydrothermal Synthesis of Few-Layer Graphene Oxide from Humic Acid. 2018, 8,	20
660	Thermomechanical Behavior of Polymer Composites Based on Edge-Selectively Functionalized Graphene Nanosheets. 2017 , 10,	9
659	Intercalation Polymerization Approach for Preparing Graphene/Polymer Composites. 2018, 10,	18
658	Free-standing and binder-free electrochemical capacitor electrode based on hierarchical microfibrous carbongrapheneMn3O4 nanocomposites materials. 2018 , 29, 14813-14826	3
657	Polypyrrole thin film on electrochemically modified graphite surface for mechanically stable and high-performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018 , 283, 1543-1550	12
656	A comparison of I-V characteristics of graphene silicon and graphene-porous silicon hybrid structures. 2018 , 122, 387-393	2
655	Different spectroscopic behavior of coupled and freestanding monolayer graphene deposited by CVD on Cu foil. 2018 , 458, 580-585	4
654	Sonication Exfoliation of Defect-Free Graphene in Aqueous Silk Nanofiber Solutions. 2018 , 6, 12261-12267	23
653	One-step room-temperature exfoliation of graphite to 100% few-layer graphene with high quality and large size. 2018 , 6, 8343-8348	9
652	Simple route for the preparation of graphene/poly(styrene-b-butadiene-b-styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity. 2018 , 67, 1118-1127	3

651	Rational Design of Hierarchical TiO2/Epitaxially Aligned MoS2farbon Coupled Interface Nanosheets Core/Shell Architecture for Ultrastable Sodium-Ion and LithiumBulfur Batteries. 2018 , 2, 1800119		41
650	Graphite-graphene architecture stabilizing ultrafine Co3O4 nanoparticles for superior oxygen evolution. 2018 , 140, 17-23		16
649	Factors affecting barrier performance of composite anti-corrosion coatings prepared by using electrochemically exfoliated few-layer graphene as filler. 2018 , 155, 1-10		24
648	Solution electrochemical approach to functionalized graphene: History, progress and challenges. 2018 , 140, 41-56		28
647	Nano-mechanical and tribological properties of copper matrix composites reinforced by graphene nanosheets. 2018 , 28, 416-421		15
646	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. 2018 , 5, 045034		22
645	A New Facile Route to Flexible and Semi-Transparent Electrodes Based on Water Exfoliated Graphene and their Single-Electrode Triboelectric Nanogenerator. 2018 , 30, e1802953		52
644	Size distribution of trilayer graphene flakes obtained by electrochemical exfoliation of graphite: Effect of the synthesis parameters. <i>Materials Chemistry and Physics</i> , 2018 , 220, 87-97	4.4	8
643	Aqueous Intercalation of Graphite at a Near-Neutral pH. 2018 , 1, 5062-5067		3
642	Synthesis of Graphene Nanosheets through Spontaneous Sodiation Process. 2018 , 4, 42		13
641	High-quality and low-cost three-dimensional graphene from graphite flakes via carbocation-induced interlayer oxygen release. 2018 , 10, 17638-17646		8
640	Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents. 2018 , 201, 48-59		8
639	Period doubling and route to chaos in reduced graphene oxide, an experimental evidence. 2018 , 269, 485-491		4
638	Recent advances in the preparation, characterization, and applications of two-dimensional heterostructures for energy storage and conversion. 2018 , 6, 21747-21784		62
637	Exfoliation of layered materials using electrochemistry. 2018 , 47, 7213-7224		90
636	Modifying Current Collectors to Produce High Volumetric Energy Density and Power Density Storage Devices. 2018 , 10, 21262-21280		15
635	Effect of graphite structures on the productivity and quality of few-layer graphene in liquid-phase exfoliation. 2018 , 53, 12807-12815		25
634	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8198-8205	16.4	188

633	Mildly oxidized graphene oxide suspension for printing technologies. 2018 , 5, 065608	3
632	Interface-Assisted Synthesis of 2D Materials: Trend and Challenges. 2018 , 118, 6189-6235	358
631	A flexible solid-state supercapacitor based on graphene/polyaniline paper electrodes. 2019 , 32, 166-173	52
630	Printing of Graphene and Related 2D Materials. 2019 ,	18
629	2D Material Production Methods. 2019 , 53-101	2
628	High-performance anode materials based on 3D orderly and vertically macroporous graphene-Si framework for Li-ion batteries. 2019 , 25, 467-473	4
627	Improved Synthesis of Graphene-Like Materials and Their Application. 2019 , 371-386	
626	Enhanced Specificity and Sensitivity for the Determination of Nickel(II) by Square-wave Adsorptive Cathodic Stripping Voltammetry at Disposable Graphene-modified Pencil Graphite Electrodes. 2019 , 52, 373-398	13
625	Water-Dispersed High-Quality Graphene: A Green Solution for Efficient Energy Storage Applications. 2019 , 13, 9431-9441	22
624	Mass Transfer and Reaction Kinetic Enhanced Electrode for High-Performance Aqueous Flow Batteries. 2019 , 29, 1903192	27
623	Multiple roles of a heterointerface in two-dimensional van der Waals heterostructures: insights into energy-related applications. 2019 , 7, 23577-23603	30
622	Enhanced capacitive performance of activated carbon paper electrode material. 2019 , 34, 2472-2481	30
621	A Nonaqueous Na-Ion Hybrid Micro-Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. 2019 , 2, 918-923	17
620	An Optimum Electrochemical Production Method of Few-Layers and Few-Defective Graphene. 2019 , 8, M75-M84	1
619	Pristine graphene for advanced electrochemical energy applications. 2019 , 437, 226899	20
618	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. 2019 , 75, 100786	247
617	The role of electrolyte acid concentration in the electrochemical exfoliation of graphite: Mechanism and synthesis of electrochemical graphene oxide. 2019 , 1, 215-223	23
616	Liquid-exfoliated graphene as highly efficient conductive additives for cathodes in lithium ion batteries. 2019 , 153, 156-163	22

615	Simultaneous Electrochemical Dual-Electrode Exfoliation of Graphite toward Scalable Production of High-Quality Graphene. 2019 , 29, 1902171		40
614	Morphological/SAXS/WAXS studies on the electrochemical synthesis of graphene nanoplatelets. 2019 , 45, 20882-20890		21
613	Effect of Supporting Electrolyte on the Surface Corrosion and Anodic Oxidation Performance of Graphite Electrode. 2019 , 10, 549-559		6
612	Highperformance flexible supercapacitor based on carbon cloth through inlitu electrochemical exfoliation and refleposition in neutral electrolyte. 2019 , 153, 617-624		19
611	Sustainable Design and Manufacturing 2019. 2019 ,		5
610	A simple ozone bubbling procedure for the preparation of graphene oxide. 2019 , 58, SIIA05		1
609	Fast and Effective Route for Removing Methylene Blue from Aqueous Solution by Using Red Mud-Activated Graphite Composites. 2019 , 2019, 1-7		5
608	Recent Advances in Green, Safe, and Fast Production of Graphene Oxide via Electrochemical Approaches. 2019 , 7, 12671-12681		20
607	Electro-Exfoliation of Graphite to Graphene in an Aqueous Solution of Inorganic Salt and the Stabilization of Its Sponge Structure with Poly(Furfuryl Alcohol). 2019 , 9,		11
606	Effect of the Sulfate Concentration on the Graphene Film Produced by Electrochemical Exfoliation. 2019 , 290, 127-133		
605	Electrical behavior of graphene under temperature effect and survey of III curve. 2019, 13, 351-356		7
604	Digital light processing 3D printing of graphene/carbonyl iron/polymethyl methacrylate nanocomposites for efficient microwave absorption. 2019 , 179, 107533		39
603	Gold nanoparticles/electrochemically expanded graphite composite: A bifunctional platform toward glucose sensing and SERS applications. 2019 , 851, 113471		8
602	Enhancement of the electrochemical activity of a commercial graphite felt for vanadium redox flow battery (VRFB), by chemical treatment with acidic solution of K2Cr2O7. 2019 , 26, 100967		21
601	Graphene aerogels for oil absorption. 2019 , 173-197		5
600	A pH-dependent partial electrochemical exfoliation of highly oriented pyrolytic graphite for high areal capacitance electric double layer capacitor electrode. <i>Electrochimica Acta</i> , 2019 , 325, 134933	6.7	3
599	Top-down bottom-up graphene synthesis. 2019 , 3, 042003		12
598	Study of a rhombohedral graphite X-ray filter using the sphere-in-contact model. 2019 , 734, 136717		

(2019-2019)

597	Growth and characterization of two-dimensional crystals for communication and energy applications. 2019 , 65, 100465	4
596	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. 2019 , 11, 44652-44663	15
595	Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential. 2019 , 1, 173-199	109
594	Flexible Planar-Integrated Micro-Supercapacitors from Electrochemically Exfoliated Graphene as Advanced Electrodes Prepared by Flash Foam Assisted Stamp Technique on Paper. 2019 , 7, 1900664	5
593	Hybrid electrode composed of multiwall carbon nanotubes decorated with magnetite nanoparticles for aqueous supercapacitors. 2019 , 26, 101020	15
592	Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications. 2019 , 535-568	O
591	Recent progress in two-dimensional nanomaterials: Synthesis, engineering, and applications. 2019 , 18, 100133	33
590	Using Different Ions to Tune Graphene Stack Structures from Sheet- to Onion-Like During Plasma Exfoliation, with Supercapacitor Applications. 2019 , 14, 141	10
589	Simultaneous electrochemical-assisted exfoliation and in situ surface functionalization towards large-scale production of few-layer graphene. 2019 , 18, 100132	14
588	Facile synthesis of water-stable iron intercalated multi layered graphene nanocomposite with large magnetic moments as superior water pollutant remediators. 2019 , 255, 116105	4
587	Electrochemical synthesis of CoOOH©o(OH)2 composite electrode on graphite current collector for supercapacitor applications. 2019 , 30, 18413-18423	12
586	Graphene at Fifteen. 2019 , 13, 10872-10878	50
585	Bimodal role of fluorine atoms in fluorographene chemistry opens a simple way toward double functionalization of graphene. 2019 , 145, 251-258	6
584	In-line monitoring of carbon nanoparticle epoxy dispersion processes. 2019 , 13, 373-390	3
583	Graphenedye hybrid optical sensors. 2019 , 17, 194-217	17
582	Scalable Production of Graphene Oxide Using a 3D-Printed Packed-Bed Electrochemical Reactor with a Boron-Doped Diamond Electrode. 2019 , 2, 867-878	25
581	Watermelon-like Metallic Co/Graphene-like Nanohybrids from Electrochemical Exfoliation of Anthracite Coal as Superior Oxygen Reduction Reaction Electrocatalyst. 2019 ,	3
580	Graphene as a Transparent and Conductive Electrode for Organic Optoelectronic Devices. 2019 , 5, 1900247	18

579	Physicochemical evaluation of nanocomposite hydrogels with covalently incorporated poly(vinyl alcohol) functionalized graphene oxide. 2019 , 136, 48025		9
578	Flash foam stamp-inspired fabrication of flexible in-plane graphene integrated micro-supercapacitors on paper. 2019 , 433, 226703		17
577	A self-etched template method to prepare CHS@MoS2 hollow microspheres for lithium-ion storage. 2019 , 801, 367-374		4
576	Electrical Conductivity of Films Formed by Few-Layer Graphene Structures Obtained by Plasma-Assisted Electrochemical Exfoliation of Graphite. 2019 , 2019, 1-6		2
575	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. 2019 , 44, 18103-18114		26
574	High-Performance and Reactivation Characteristics of High-Quality, Graphene-Supported SnS Heterojunctions for a Lithium-Ion Battery Anode. 2019 , 11, 22314-22322		22
573	Adhesion properties of 2D materials. 2019 , 52, 364002		21
572	Optimum Electrochemical Production Method of Few-Layers and Few-Defective Graphene. SSRN Electronic Journal, 2019 ,	1	
571	Modern Methods for Synthesis of Few-Layer Graphene Structures by Electrochemical Exfoliation of Graphite. 2019 , 10, 249-255		3
57°	Mechanically strengthened graphene-Cu composite with reduced thermal expansion towards interconnect applications. 2019 , 5, 20		12
569	Top-down synthesis of S-doped graphene nanosheets by electrochemical exfoliation of graphite: Metal-free bifunctional catalysts for oxygen reduction and evolution reactions. <i>Electrochimica Acta</i> , 2019 , 313, 1-9	6.7	32
568	A Porous Carbon with Excellent Gas Storage Properties from Waste Polystyrene. 2019 , 9,		10
567	Thermal decomposition of ammonium perchlorate/exfoliated-graphene and the relationship between activation energy and band gap. 2019 , 37, 270-281		
566	Two-Dimensional Nanomaterials: Crystal Structure and Synthesis. 2019 , 1-25		10
565	Large Area Graphene Deposition on Hydrophobic Surfaces, Flexible Textiles, Glass Fibers and 3D Structures. 2019 , 9, 183		11
564	Hierarchical MnO2/activated carbon cloth electrode prepared by synchronized electrochemical activation and oxidation for flexible asymmetric supercapacitors. 2019 , 372, 1047-1055		61
563	Electrochemical mass production of graphene nanosheets for arsenic removal from aqueous solutions. 2019 , 250, 16-19		7
562	Graphene nanomaterials: chemistry and pharmaceutical perspectives. 2019 , 373-402		10

561	Polyimide nanohybrid films with electrochemically functionalized graphene. 2019 , 68, 1441-1449		2
560	An aqueous cathodic delamination route towards high quality graphene flakes for oil sorption and electrochemical charge storage applications. 2019 , 372, 1226-1239		7
559	A Green Approach for the Synthesis of Coconut Husk Ash II wisted Graphene Nanocomposites: Novel Catalysts for Solvent-Free Biginelli Reaction. 2019 , 4, 4785-4796		10
558	Graphene: An Effective Lubricant for Tribological Applications. 2019 , 239-258		3
557	Improved DSSC photovoltaic performance using reduced graphene oxidellarbon nanotube/platinum assisted with customised triple-tail surfactant as counter electrode and zinc oxide nanowire/titanium dioxide nanoparticle bilayer nanocomposite as photoanode. 2019 , 4, 17-31		2
556	Tunable solution-processable anodic exfoliated graphene. 2019 , 15, 290-296		14
555	Electron transfer properties of a redox polyelectrolyte based on ferrocenated imidazolium. <i>Electrochimica Acta</i> , 2019 , 305, 155-163	6.7	2
554	Mesoporous dominant cashewnut sheath derived bio-carbon anode for LIBs and SIBs. <i>Electrochimica Acta</i> , 2019 , 304, 175-183	6.7	13
553	High-Performance Graphene-Based Cementitious Composites. 2019 , 6, 1801195		38
552	Rational design of a sandwiched structure Ni(OH)2 nanohybrid sustained by amino-functionalized graphene quantum dots for outstanding capacitance. 2019 , 480, 727-737		28
551	Preparation of graphene nanosheets by electrochemical exfoliation of a graphite-nanoclay composite electrode: Application for the adsorption of organic dyes. 2019 , 570, 107-116		14
550	Mass-Produced Electrochemically Exfoliated Graphene for Ultrahigh Thermally Conductive Paper Using a Multimetal Electrode System. 2019 , 6, 1900095		10
549	Carbon Nanoparticles' Impact on Processability and Physical Properties of Epoxy Resins-A Comprehensive Study Covering Rheological, Electrical, Thermo-Mechanical, and Fracture Properties (Mode I and II). 2019 , 11,		5
548	Scotch-tape-like exfoliation effect of graphene quantum dots for efficient preparation of graphene nanosheets in water. 2019 , 483, 52-59		17
547	Production and Patterning of Liquid Phase E xfoliated 2D Sheets for Applications in Optoelectronics. 2019 , 29, 1901126		45
546	Controlled Grafting of Colloidal Nanoparticles on Graphene through Tailored Electrostatic Interaction. 2019 , 11, 11824-11833		13
545	Holey graphene synthesized by electrochemical exfoliation for high-performance flexible microsupercapacitors. 2019 , 7, 7852-7858		23
544	Current Review on Synthesis, Composites and Multifunctional Properties of Graphene. 2019 , 377, 10		49

543	Characterization Techniques of Two-Dimensional Nanomaterials. 2019, 27-41	2
542	Water-based and inkjet printable inks made by electrochemically exfoliated graphene. 2019 , 149, 213-221	52
541	Nonsaturating negative magnetoresistance in laser-induced graphene. 2019 , 248, 43-47	11
540	Persian waxing of graphite: towards green large-scale production of graphene. 2019 , 55, 5331-5334	7
539	Difference Frequency Generation-based ultralow threshold Optical Bistability in graphene at visible frequencies, an experimental realization. 2019 , 284, 92-101	8
538	Unconventional Nanofabrication for Supramolecular Electronics. 2019 , 31, e1900599	24
537	Tunable nitrogen-doped graphene sheets produced with in situ electrochemical cathodic plasma at room temperature for lithium-ion batteries. 2019 , 12, 336-347	14
536	Systematic Comparison of Graphene Materials for Supercapacitor Electrodes. 2019 , 8, 418-428	20
535	Facial fabrication of an inorganic/organic thermoelectric nanocomposite based gas sensor for hydrogen detection with wide range and reliability. 2019 , 44, 11266-11274	15
534	Review of carbon-based electrode materials for supercapacitor energy storage. 2019 , 25, 1419-1445	172
533	Programmed electrochemical exfoliation of graphite to high quality graphene. 2019 , 55, 3379-3382	21
532	High throughput synthesis of defect-rich MoS nanosheets via facile electrochemical exfoliation for fast high-performance lithium storage. 2019 , 542, 263-268	18
531	Exfoliated graphene nanosheets as high-power anodes for lithium-ion batteries. 2019 , 29, 81-87	8
530	Continuous Growth of Highly Reproducible Single-Layer Graphene Deposition on Cu Foil by Indigenously Developed LPCVD Setup. 2019 , 4, 2893-2901	4
529		
	An In Situ Interface Reinforcement Strategy Achieving Long Cycle Performance of Dual-Ion Batteries. 2019 , 9, 1804022	59
528		59 6
528 527	Batteries. 2019 , 9, 1804022	

525	Unveiling the thickness-dependent mechanical properties of graphene papers by SEM tension 2019 , 9, 4609-4615	3
524	Preparation of highly dispersed expandable graphite/polystyrene composite foam via suspension polymerization with enhanced fire retardation. 2019 , 146, 503-512	21
523	High-Mobility Polymer Monolayer Field-Effect Transistors with Graphene Electrodes. 2019,	
522	Controlled electrophoretic deposition of electrochemically exfoliated graphene sheets on Ag nanowires network. 2019 , 14, 389-393	4
521	Electrochemical Synthesis of Multilayer Graphene Oxide by Anodic Oxidation of Disperse Graphite. 2019 , 55, 1196-1202	16
520	High-Efficiency Production of Large-Size Few-Layer Graphene Platelets via Pulsed Discharge of Graphite Strips. 2019 , 9,	3
519	Synthesis of graphene electrochemical exfoliation in different electrolytes for direct electrodeposition of a Cu/graphene composite coating 2019 , 9, 35524-35531	3
518	Two-dimensional group-VA nanomaterials beyond black phosphorus: synthetic methods, properties, functional nanostructures and applications. 2019 , 7, 25712-25771	34
517	Janus electrochemical exfoliation of two-dimensional materials. 2019 , 7, 25691-25711	23
516	Analysis of the structural characteristics of graphene materials obtained by electrochemical exfoliation of graphite. 2019 , 693, 012025	1
515	Electrochemical exfoliation of pencil graphite for preparation of graphene coating as a new versatile SPME fiber for determination of polycyclic aromatic hydrocarbons by gas chromatography. 2019 , 186, 861	9
514	Research Progress of the Liquid-Phase Exfoliation and Stable Dispersion Mechanism and Method of Graphene. 2019 , 6,	15
513	Mass production of low-boiling point solvent- and water-soluble graphene by simple salt-assisted ball milling. 2019 , 1, 4955-4964	5
512	High voltage electrochemical exfoliation of graphite for high-yield graphene production 2019 , 9, 29305-293	1110
511	Printed electronics based on inorganic conductive nanomaterials and their applications in intelligent food packaging. 2019 , 9, 29154-29172	16
510	Growth and growth mechanism of oxide nanocrystals on electrochemically exfoliated graphene for lithium storage. 2019 , 18, 174-181	10
509	Carbon-Based Photocathode Materials for Solar Hydrogen Production. 2019 , 31, e1801446	54
508	Electrically Conductive Thin Films Derived from Bulk Graphite and Liquidliquid Interface Assembly. 2019 , 6, 1801570	10

507	Effect of electrolytes and sonication times on the formation of graphene using an electrochemical exfoliation process. 2019 , 469, 951-961		38
506	Pristine or Highly Defective? Understanding the Role of Graphene Structure for Stable Lithium Metal Plating. 2019 , 9, 1802918		79
505	Comparative Degradation of Atrazine by Anodic Oxidation at Graphite and Platinum Electrodes and Insights into Electrochemical Behavior of Graphite Anode. 2019 , 10, 35-44		18
504	Mechanochemical Routes to Functionalized Graphene Nanofillers Tuned for Lightweight Carbon/Hydrocarbon Composites. 2019 , 304, 1800496		10
503	A single step strategy to fabricate graphene fibres via electrochemical exfoliation for micro-supercapacitor applications. <i>Electrochimica Acta</i> , 2019 , 299, 645-653	6.7	19
502	Direct growth of SnO2 nanocrystallites on electrochemically exfoliated graphene for lithium storage. 2019 , 21, 647-656		11
501	Ink-based 3D printing technologies for graphene-based materials: a review. 2019 , 2, 1-33		97
500	Selected Aspects of Graphene Exfoliation as an Introductory Step Towards 3D Structuring of Graphene Nano-Sheets. 2019 , 2, 106-117		5
499	Punching holes on paper-like electrodes: An effective strategy to enhance rate performance of supercapacitors. 2019 , 19, 338-345		12
498	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. 2019 , 243, 373-380		28
497	Synthesis/Preparation of Carbon Materials. 2019 , 1-64		
496	Kinetics of Graphene and 2D Materials Growth. 2019 , 31, e1801583		53
495	Three-Dimensional Nitrogen-Doped Graphene Frameworks from Electrochemical Exfoliation of Graphite as Efficient Supercapacitor Electrodes. 2019 , 5, 152-157		13
494	Electrochemically Exfoliated Phosphorene©raphene Hybrid for Sodium-Ion Batteries. 2019 , 3, 1800328		50
493	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. 2018, 11, 16-33		126
492	Advanced MoS and graphene heterostructures as high-performance anode for sodium-ion batteries. 2019 , 30, 104003		16
491	High-Yield and Damage-free Exfoliation of Layered Graphdiyne in Aqueous Phase. 2019 , 58, 746-750		44
490	Graphene from discharged dry cell battery electrodes. 2019 , 366, 358-369		27

(2020-2019)

489	Mechanochemical reaction using weak acid salts enables dispersion and exfoliation of nanomaterials in polar solvents. 2019 , 54, 4546-4558	2
488	High-yield production of high-quality graphene by novel electrochemical exfoliation at air-electrolyte interface. 2019 , 235, 153-156	15
487	Preparation of Porous [email[protected]3O4 and Its Application in the Oxygen Reduction Reaction and Supercapacitor. 2019 , 7, 831-837	46
486	Three-dimensional interconnected network few-layered MoS2/N, S co-doped graphene as anodes for enhanced reversible lithium and sodium storage. <i>Electrochimica Acta</i> , 2019 , 293, 47-59	31
485	Salt and water co-assisted exfoliation of graphite in organic solvent for efficient and large scale production of high-quality graphene. 2019 , 535, 92-99	30
484	Choice for graphene as conductive additive for cathode of lithium-ion batteries. 2019 , 30, 19-26	25
483	Cobalt-based composite films on electrochemically activated carbon cloth as high performance overall water splitting electrodes. 2019 , 44, 23-33	22
482	Environmentally friendly route for graphene oxide production via electrochemical synthesis focused on the adsorptive removal of dyes from water. 2020 , 41, 2771-2782	5
481	Spilled oil absorption from Caspian sea water by graphene/chitosan nano composite. 2020 , 42, 2856-2872	7
480	Tailoring graphene reinforced thermoset and biothermoset composites. 2020 , 36, 623-652	5
479	Exfoliation and europium(III)-functionalization of titanium phosphate via propylamine intercalation: from multilayer assemblies to single nanosheets. 2020 , 26, 241-250	3
478	Recent Development of Printed Micro-Supercapacitors: Printable Materials, Printing Technologies, and Perspectives. 2020 , 32, e1805864	82
477	Scalable preparation of high performance fibrous electrodes with bio-inspired compact core-fluffy sheath structure for wearable supercapacitors. 2020 , 157, 106-112	31
476	The CuAAC: Principles, Homogeneous and Heterogeneous Catalysts, and Novel Developments and Applications. 2020 , 41, e1900359	80
475	Synthesis of a high-temperature stable electrochemically exfoliated graphene. 2020 , 157, 681-692	34
474	Dispersed graphene materials of biomedical interest and their toxicological consequences. 2020 , 275, 102051	18
473	Electrochemical exfoliation of graphite in nanofibrillated kenaf cellulose (NFC)/surfactant mixture for the development of conductive paper. 2020 , 228, 115376	7
472	Two-Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. 2020 , 13, 59-77	18

471	Graphen im Schulexperiment. 2020 , 54, 116-125	1
470	Fast chemical exfoliation of graphite to few-layer graphene with high quality and large size via a two-step microwave-assisted process. 2020 , 381, 122592	19
469	Non-destructive, uniform, and scalable electrochemical functionalization and exfoliation of graphite. 2020 , 158, 356-363	20
468	Dual-ion batteries: The emerging alternative rechargeable batteries. 2020 , 25, 1-32	83
467	One step electrochemical fabricating of the biomimetic graphene skins with superhydrophobicity and superoleophilicity for highly efficient oil-water separation. 2020 , 236, 116293	15
466	Multi-role p-styrene sulfonate assisted electrochemical preparation of functionalized graphene nanosheets for improving fire safety and mechanical property of polystyrene composites. 2020 , 181, 107544	20
465	Preparation of electrochemically exfoliated graphene sheets using DC switching voltages. 2020 , 30, 409-416	2
464	Self-healing effect of graphene@PANI loaded with benzotriazole for carbon steel. 2020 , 163, 108246	35
463	Biocompatibility and hemocompatibility of hydrothermally derived reduced graphene oxide using soluble starch as a reducing agent. 2020 , 185, 110579	28
462	The Capacitance of Graphene: From Model Systems to Large-Scale Devices. 2020 , 33-84	5
461	Rhodium(III)-Catalyzed Decarboxylative Aminomethylation of Glycine Derivatives with Indoles via C-H Activation. 2020 , 85, 2838-2845	5
460	Application of organic@raphene hybrids in high performance photodetectors. 2020 , 4, 354-368	9
459	Photon-induced synthesis of ultrafine metal nanoparticles on graphene as electrocatalysts: impact of functionalization and doping. 2020 , 8, 714-723	10
458	Exfoliation Behavior of Large Anionic Graphite Flakes in Liquid Produced by Salt-Assisted Ball Milling. 2020 , 8, 28	2
457	. 2020 , 14, 14-22	3
456	High Performance Na-O Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. 2020 , 12, 494-506	15
455	Role of electrolyte at the interface and in the dispersion of graphene in organic solvents. 2020 , 31, 404-413	2
454	Electrochemical exfoliation of graphene as an anode material for ultra-long cycle lithium ion batteries. 2020 , 139, 109301	21

(2020-2020)

453	Simultaneously electrochemical expoliation and functionalization of graphene nanosheets: Multifunctional reinforcements in thermal, flame-retardant, and mechanical properties of polyacrylonitrile composite fibers. 2020 , 41, 1561-1573	5
452	In Situ Formation of Hierarchical Bismuth Nanodots/Graphene Nanoarchitectures for Ultrahigh-Rate and Durable Potassium-Ion Storage. 2020 , 16, e1905789	43
451	Azidated Graphene: Direct Azidation from Monolayers, Click Chemistry, and Bulk Production from Graphite. 2020 , 20, 534-539	8
450	Electrochemical generation of Fe3C/N-doped graphitic carbon nanozyme for efficient wound healing in vivo. 2020 , 159, 149-160	34
449	Introduction. 2020 , 1-35	1
448	Rapid preparation of expanded graphite at low temperature. 2020 , 35, 262-268	6
447	Efficient overall water splitting using nickel boride-based electrocatalysts. 2020 , 45, 28616-28625	8
446	Untraditional Deformation-Driven Pressure Sensor with High Sensitivity and Ultra-Large Sensing Range up to MPa Enables Versatile Applications. 2020 , 5, 2000677	12
445	Graphene to Advanced MoS2: A Review of Structure, Synthesis, and Optoelectronic Device Application. 2020 , 10, 902	16
444	Enhanced Solar-Driven-Heating and Tough Hydrogel Electrolyte by Photothermal Effect and Hofmeister Effect. 2020 , 16, e2004091	6
443	Scalable Production of Graphene Nanoplatelets for Energy Storage. 2020 , 3, 10303-10309	6
442	Construction of NiCo2S4 heterostructure based on electrochemically exfoliated graphene for high-performance hybrid supercapacitor electrode. 2020 , 845, 156164	25
441	Exploiting the Surface Properties of Graphene for Polymorph Selectivity. 2020, 14, 10394-10401	10
440	Review of fabrication methods of large-area transparent graphene electrodes for industry. 2020 , 13, 91-113	13
439	Proton-Triggered Fluorescence Switching in Self-Exfoliated Ionic Covalent Organic Nanosheets for Applications in Selective Detection of Anions. 2020 , 12, 13248-13255	40
438	Recent developments in carbon-based two-dimensional materials: synthesis and modification aspects for electrochemical sensors. 2020 , 187, 441	21
437	Boosting Capacitive Sodium-Ion Storage in Electrochemically Exfoliated Graphite for Sodium-Ion Capacitors. 2020 , 12, 52635-52642	13
436	Synthesis, transfer and application of graphene as a transparent conductive film: a review. 2020 , 43, 1	10

435 Types of Flame Retardants. **2020**, 1-129

434	Nanosheet size-dependent rheology, microstructure, adsorption properties of graphene oxide-electrolyte dispersions and adsorbents. 2020 , 269, 116494		O
433	Avenue to Large-Scale Production of Graphene Quantum Dots from High-Purity Graphene Sheets Using Laboratory-Grade Graphite Electrodes. 2020 , 5, 18831-18841		9
432	From spent graphite to recycle graphite anode for high-performance lithium ion batteries and sodium ion batteries. <i>Electrochimica Acta</i> , 2020 , 356, 136856	6.7	36
431	Exploration of in-house synthesized and functionalized graphene as reinforcement in Cu-matrix for improved mechanical and anti-corrosion properties. <i>Diamond and Related Materials</i> , 2020 , 109, 108009	3.5	3
430	Efficient inhibition of Salmonella on chestnuts via Fe3C/N-C bacteriostatic suspension prepared by electrochemical method. 2020 , 118, 108034		0
429	Ultrasonic-Assisted Cathodic Plasma Electrolysis Approach for Producing of Graphene Nanosheets. 2020 ,		1
428	Electrochemically exfoliated graphene as high-performance catalyst support to promote electrocatalytic oxidation of methanol on Pt catalysts. 2020 , 27, 2515-2529		6
427	Novel determination of Cd and Zn in soil extract by sequential application of bismuth and gallium thin films at a modified screen-printed carbon electrode. 2020 , 1137, 94-102		8
426	Flexible graphene paper electrode prepared via polyvinyl alcohol-assisted shear-exfoliation for all-solid-state polymer supercapacitor application. <i>Electrochimica Acta</i> , 2020 , 363, 137208	6.7	13
425	A novel method for graphene synthesis via electrochemical process and its utilization in organic photovoltaic devices. 2020 , 126, 1		4
424	Two-Dimensional Black Phosphorus Nanomaterials: Emerging Advances in Electrochemical Energy Storage Science. 2020 , 12, 179		34
423	Stretchable and Flexible Thin Films Based on Expanded Graphite Particles. 2020, 8, 961		2
422	3D Graphene Materials: From Understanding to Design and Synthesis Control. 2020 , 120, 10336-10453		117
421	Fabrication of AuPd NPs@CNSs/GO Nanocomposites and Their High Catalytic Properties. 2020 , 94, 1804-1810		
420	Three-Dimensional Architectures in Electrochemical Capacitor Applications Insights, Opinions, and Perspectives. 2020 , 8,		1
419	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni into Single Atom Catalysts. 2020 , 14, 11662-11669		9
418	Voltammetric pH sensor based on electrochemically modified pseudo-graphite. 2020 , 145, 7252-7259		7

417	Growth of hydrophilic graphene oxide layers using continuous laser ablation. 2020 , 182, 109721	2
416	. 2020,	0
415	Selective Electrochemical Sensing of NADH and NAD+ Using Graphene/Tungstate Nanocomposite Modified Electrode. 2020 , 5, 14643-14651	5
414	Coordinating capillary infiltration with anodic oxidation: a multi-functional strategy for electrochemical fabrication of graphene 2020 , 10, 43324-43333	
413	A No-Sweat Strategy for Graphene-Macrocycle Co-assembled Electrocatalyst toward Oxygen Reduction and Ambient Ammonia Synthesis. 2020 , 59, 16385-16397	3
412	Poly(ionic liquid)-Stabilized Graphene Nanoinks for Scalable 3D Printing of Graphene Aerogels. 2020 , 3, 11608-11619	7
411	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. 2020 , 10,	7
410	Wearable supercapacitors based on nickel tungstate decorated commercial cotton fabrics. 2020 , 44, 7603-7616	15
409	Scalable Fabrication of Modified Graphene Nanoplatelets as an Effective Additive for Engine Lubricant Oil. 2020 , 10,	8
408	Scalable Fabrication of Carbon Nanomaterials by Electrochemical Dual-Electrode Exfoliation of Graphite in Hydroxide Molten Salt. 2020 , 59, 10010-10017	3
407	Cera alba-assisted ultraclean graphene transfer for high-performance PbI UV photodetectors. 2020 , 31, 365204	2
406	Rechargeable Aqueous Zinc-Ion Batteries with Mild Electrolytes: A Comprehensive Review. 2020 , 3, 966-1005	24
405	Highly Effective Electrochemical Exfoliation of Ultrathin Tantalum Disulfide Nanosheets for Energy-Efficient Hydrogen Evolution Electrocatalysis. 2020 , 12, 24675-24682	15
404	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. 2020 , 12, 118	67
403	Multilayer graphene sheets converted directly from anthracite in the presence of molten iron and their applications as anode for lithium ion batteries. 2020 , 263, 116364	6
402	2D materialsBased flexible supercapacitors for high energy storage devices. 2020 , 417-436	
401	Defect Engineering of 2D Materials for Electrochemical Energy Storage. 2020 , 7, 2000494	10
400	Electrochemical exfoliation for few-layer graphene in molybdate aqueous solution and its application for fast electrothermal film. 2020 , 30, 312-320	6

399	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. 2020 , 17, 100459	3
398	Recent breakthroughs in two-dimensional van der Waals magnetic materials and emerging applications. 2020 , 34, 100902	16
397	Self-Planarization of High-Performance Graphene Liquid Crystalline Fibers by Hydration. 2020 , 6, 1105-1114	8
396	Role of anions on electrochemical exfoliation of graphite into graphene in aqueous acids. 2020 , 167, 816-825	27
395	Review B reparation and Application of Graphene-Based Hybrid Materials through Electrochemical Exfoliation. 2020 , 167, 086511	11
394	Design and synthesis of high performance flexible and green supercapacitors made of manganese-dioxide-decorated alkali lignin. 2020 , 2, e184	10
393	Exfoliation of graphene nanosheets in aqueous media. 2020 , 46, 21873-21887	15
392	A two-step approach for improved exfoliation and cutting of boron nitride into boron nitride nanodisks with covalent functionalizations. 2020 , 31, 425604	5
391	Enhanced through-plane thermal conductivity in Polymer nanocomposites by constructing graphene-supported BN nanotubes. 2020 , 8, 9569-9575	13
390	Multimaterial 3D-printing of graphene/Li0.35Zn0.3Fe2.35O4 and graphene/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. 2020 , 167, 62-74	44
389	The cyclic regeneration of templates during the preparation of mesoporous graphene fibers with excellent capacitive behavior in the fluidized-bed chemical vapor deposition process. 2020 , 221, 115657	2
388	Nitrogen-Doped Graphene via Alternating Voltage Electrochemical Exfoliation for Supercapacitor Application. 2020 , 8, 428	5
387	Preparation of graphene. 2020 , 39-171	0
386	Exfoliation of 2D Materials for Energy and Environmental Applications. 2020 , 26, 6360-6401	42
385	Graphene-based nanomaterials for healthcare applications. 2020 , 45-81	6
384	An experimental and steered molecular dynamics simulation approach to histidine assisted liquid-phase exfoliation of graphite into few-layer graphene. 2020 , 22, 9910-9914	3
383	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. 2020 , 20, 3411-3419	25
382	Solution-processed two-dimensional materials for ultrafast fiber lasers (invited). 2020 , 9, 2169-2189	28

(2020-2020)

381	Photoacoustic identification of laser-induced microbubbles as light scattering centers for optical limiting in a liquid suspension of graphene nanosheets. 2020 , 12, 7109-7115		7
380	Tailoring the graphene polarity through the facile and one-step electrochemical exfoliation in low concentration of exfoliation agents. 2020 , 22, 100181		6
379	Electrochemical exfoliation of water-dispersible graphene from graphite towards reinforcing the mechanical and flame-retardant properties of poly (vinyl alcohol) composites. <i>Materials Chemistry and Physics</i> , 2020 , 254, 123430	4.4	7
378	A facile electrochemical synthesis of graphene from battery waste for sensing application. 2020,		1
377	Polymer-Assisted Electrophoretic Synthesis of N-Doped Graphene-Polypyrrole Demonstrating Oxygen Reduction with Excellent Methanol Crossover Impact and Durability. 2020 , 26, 12664-12673		8
376	2D inorganic nanosheets as versatile building blocks for hybrid electrode materials for supercapacitor. 2020 , 421, 213439		40
375	Heterojunction induced activation of iron oxide anode for high-power aqueous batteries. 2020 , 400, 125874		9
374	Electronic devices based on solution-processed two-dimensional materials. 2020 , 351-384		2
373	Bleaching and coloration kinetics of electrochromic device based on PT/EG/AgNWs composite film. 2020 , 215, 110673		2
372	Impact of oxidation morphology on reduced graphene oxides upon thermal annealing. 2020 , 3, 015011		5
37 ²	Impact of oxidation morphology on reduced graphene oxides upon thermal annealing. 2020 , 3, 015011 Improving Fire Retardancy of Beech Wood by Graphene. 2020 , 12,		18
371	Improving Fire Retardancy of Beech Wood by Graphene. 2020 , 12, Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for		18
371 370	Improving Fire Retardancy of Beech Wood by Graphene. 2020 , 12, Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for 3D printing. 2020 , 189, 107912 Synthesis of graphene-related carbon nanoparticles from a liquid isopropanol precursor by a	6.7	18 17
371 370 369	Improving Fire Retardancy of Beech Wood by Graphene. 2020, 12, Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for 3D printing. 2020, 189, 107912 Synthesis of graphene-related carbon nanoparticles from a liquid isopropanol precursor by a one-step atmospheric plasma process. 2020, 514, 145926 Fabrication of Pt3Ni catalysts on polypyrrole-modified electrochemically exfoliated graphene with exceptional electrocatalytic performance for methanol and ethanol oxidation. <i>Electrochimica Acta</i> ,	6.7	18 17 1
371 370 369 368	Improving Fire Retardancy of Beech Wood by Graphene. 2020, 12, Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for 3D printing. 2020, 189, 107912 Synthesis of graphene-related carbon nanoparticles from a liquid isopropanol precursor by a one-step atmospheric plasma process. 2020, 514, 145926 Fabrication of Pt3Ni catalysts on polypyrrole-modified electrochemically exfoliated graphene with exceptional electrocatalytic performance for methanol and ethanol oxidation. Electrochimica Acta, 2020, 340, 135969 A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole	6.7	18 17 1
371 370 369 368 367	Improving Fire Retardancy of Beech Wood by Graphene. 2020, 12, Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for 3D printing. 2020, 189, 107912 Synthesis of graphene-related carbon nanoparticles from a liquid isopropanol precursor by a one-step atmospheric plasma process. 2020, 514, 145926 Fabrication of Pt3Ni catalysts on polypyrrole-modified electrochemically exfoliated graphene with exceptional electrocatalytic performance for methanol and ethanol oxidation. Electrochimica Acta, 2020, 340, 135969 A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors. 2020, 12, 13386-13399 Single-Step Electrochemical Synthesis of Cobalt Nanoclusters Embedded on Dense Graphite Sheets	6.7	18 17 1 7 21

363	One-Step Electrochemically Prepared Graphene/Polyaniline Conductive Filter Membrane for Permeation Enhancement by Fouling Mitigation. 2020 , 36, 2209-2222	6
362	Wetting Properties of Graphene Aerogels. 2020 , 10, 1916	8
361	Plasma-Induced Exfoliation Provides Onion-Like Graphene-Surrounded MoS Nanosheets for a Highly Efficient Hydrogen Evolution Reaction. 2020 , 12, 11533-11542	27
360	Enhanced biogas production from swine manure anaerobic digestion via in-situ formed graphene in electromethanogenesis system. 2020 , 389, 124510	23
359	High-performance electrochemical sensor based on molecularly imprinted polypyrrole-graphene modified glassy carbon electrode. 2020 , 699, 137875	9
358	Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. 2020 , 12,	69
357	Ultrasonic-Ball Milling: A Novel Strategy to Prepare Large-Size Ultrathin 2D Materials. 2020 , 16, e1906734	19
356	NiMn hydroxides supported on porous Ni/graphene films as electrically and thermally conductive electrodes for supercapacitors. 2020 , 393, 124598	14
355	Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. 2020 , 27, 396-404	22
354	Enhanced methanol electro-oxidation activity of electrochemically exfoliated graphene-Pt through polyaniline modification. 2020 , 858, 113821	14
353	Property-Activity Relationship of Black Phosphorus at the Nano-Bio Interface: From Molecules to Organisms. 2020 , 120, 2288-2346	73
352	Electrode and symmetric supercapacitor device performance of boron-incorporated reduced graphene oxide synthesized by electrochemical exfoliation. 2020 , 2, e134	10
351	Review@raphene-Based Water Quality Sensors. 2020 , 167, 037539	24
350	One-step formation of a hybrid material of graphene and porous Ni with highly active Ni(OH) used for glucose detection. 2020 , 31, 185501	6
349	Drying-Mediated Self-Assembly of Graphene for Inkjet Printing of High-Rate Micro-supercapacitors. 2020 , 12, 40	25
348	Preparation and characterization of graphene. 2020 , 51-90	1
347	An electrochemical study on bismuth oxide (Bi2O3) as an electrode material for rechargeable aqueous aluminum-ion battery. 2020 , 347, 115228	15
346	Production and processing of graphene and related materials. 2020 , 7, 022001	179

(2021-2020)

345	Facile synthesis of paper based graphene electrodes for point of care devices: A double stranded DNA (dsDNA) biosensor. 2020 , 566, 463-472	119
344	Solution-Processable 2D Materials Applied in Light-Emitting Diodes and Solar Cells. 2020 , 5, 1900972	25
343	Innovative Electrochemical Strategy to Recovery of Cathode and Efficient Lithium Leaching from Spent Lithium-Ion Batteries. 2020 , 3, 4767-4776	18
342	Synthesis of Multilayer Graphene Oxide in Electrochemical Graphite Dispersion in H2SO4. 2020 , 93, 219-224	2
341	. 2020,	2
340	Nanostructured Metal-Oxide Electrode Materials for Water Purification. 2020 ,	
339	Industrial scale synthesis of few-layer graphene nanosheets (FLGNSs): an exploration of electrochemical exfoliation approach. 2020 , 50, 673-688	10
338	The fabrication of hierarchical nanostructured graphene/PPy fiber composites and its electrochemical properties. 2020 , 26, 2667-2671	6
337	Modifications of MXene layers for supercapacitors. 2020 , 73, 104734	74
336	Co-Doped Electrochemically Exfoliated Graphene/Polymer Nanocomposites with High Dielectric Constant and Low Dielectric Loss for Flexible Dielectrics and Charge Storage. 2020 , 3, 4512-4521	14
335	Adjustable anchoring of Ni/Co cations by oxygen-containing functional groups on functionalized graphite paper and accelerated mass/electron transfer for overall water splitting. 2020 , 10, 2627-2643	11
334	Effective accommodation and conversion of polysulfides using organic-inorganic hybrid frameworks for long-life lithium-sulfur batteries. 2020 , 12, 13377-13387	2
333	Local current mapping of electrochemically-exfoliated graphene oxide by conductive AFM. 2020 , 59, SN1001	1
332	Graphene as interface modifier in ITO and ITO-Cr electrodes. 2020 , 20, 846-852	2
331	Design of Slidable Polymer Networks: A Rational Strategy to Stretchable, Rapid Self-Healing Hydrogel Electrolytes for Flexible Supercapacitors. 2020 , 12, 20479-20489	29
330	Cathodic exfoliation of graphite into graphene nanoplatelets in aqueous solution of alkali metal salts. 2021 , 56, 3612-3622	5
329	Electrochemical extraction of palladium from spent heterogeneous catalysts of a petrochemical unit using the leaching and flat plate graphite electrodes. 2021 , 258, 117527	2
328	Synthesis, crystal structure of a iron-manganese bimetal MOF and its graphene composites with enhanced microwave absorption properties. 2021 , 148, 109657	20

327	Environment-friendly preparation of exfoliated graphite and functional graphite sheets. 2021 , 7, 136-145	7
326	Mixed-acid intercalation for synthesis of a high conductivity electrochemically exfoliated graphene. 2021 , 171, 130-141	4
325	Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. 2021 , 29, 175-182	О
324	Effect of residual electrolyte on dispersion stability of graphene in aqueous solution. 2021 , 25, 617-626	
323	Crystalline polymer functionalized non-oxidized graphene flakes for high gas barrier composites. 2021 , 46, 5472-5484	4
322	Ultralight graphene/graphite hybrid fibers via entirely water-based processes and their application to density-controlled, high performance composites. 2021 , 173, 880-890	3
321	Ultrasonic and NH4+ assisted Ni foam substrate oxidation to achieve high performance MnO2 supercapacitor. 2021 , 541, 148546	10
320	Electrochemical Delamination of Ultralarge Few-Layer Black Phosphorus with a Hydrogen-Free Intercalation Mechanism. 2021 , 33, e2005815	6
319	Structural anisotropy in three dimensional macroporous graphene: A polarized XANES investigation. <i>Diamond and Related Materials</i> , 2021 , 111, 108171	1
318	Development of Pen-type Portable Electrochemical Sensor Based on Au-W Bimetallic Nanoparticles Decorated Graphene-chitosan Nanocomposite Film for the Detection of Nitrite in Water, Milk and Fruit Juices. 2021 , 33, 1096-1106	7
317	Synthesis and characterization of aryl substituted functionalized graphene sheets and their electrochemical behavior. 2021 , 25, 149-158	2
316	Recent Advances in Hybridization, Doping, and Functionalization of 2D Xenes. 2021 , 31, 2005471	10
315	Recent Progress in Graphene/Polymer Nanocomposites. 2021 , 33, e2001105	75
314	Graphene Quantum Dots and Their Applications in Bioimaging, Biosensing, and Therapy. 2021 , 33, e1904362	151
313	Facile assembly of layer-interlocked graphene heterostructures as flexible electrodes for Li-ion batteries. 2021 , 227, 321-331	O
312	CHAPTER 6:Atomic and Molecular Functionalization of Graphitic Carbon Nitride for Solar Cell Applications. 2021 , 221-261	O
311	Synthesis of Advanced Materials by Electrochemical Methods. 2021 , 435-466	
310	Fabrication and Characterization of Graphene with Few Layers Based on Electrode Exchange Stripping Technology. 2021 , 11, 562-570	

309	A short review on electrochemical exfoliation of graphene and graphene quantum dots. 2021 , 31, 371-388	7
308	Ultra-Fast, Chemical-Free, Mass Production of High Quality Exfoliated Graphene. 2021 , 15, 1775-1784	21
307	The effect of different electrolytes on the synthesis of graphene sheets by electrochemical exfoliation. 2021 ,	
306	Effect of HSO/HO pre-treatment on electrochemical properties of exfoliated graphite prepared by an electro-exfoliation method 2021 , 11, 10881-10890	O
305	Applications of Graphene-Based Nanomaterials. 2021 , 1-26	
304	Electrochemical Manufacturing Methods Based on Surface Inhomogeneities at the Nanoscale. 2021 , 323-359	
303	Gram-scale synthesis of electrochemically oxygenated graphene nanosheets for removal of methylene blue from aqueous solution. 2021 , 32, 16LT01	3
302	The complementary graphene growth and etching revealed by large-scale kinetic Monte Carlo simulation. 2021 , 7,	7
301	Electroactive organically modified mesoporous silicates on graphene oxide-graphite 3D architectures operating with electron-hopping for high rate energy storage. <i>Electrochimica Acta</i> , 6.7 2021 , 366, 137407	2
300	Boron carbonitride with tunable B/N Lewis acid/base sites for enhanced electrocatalytic overall water splitting. 2021 , 13, 2849-2854	9
299	Graphene preparation and process parameters by pre-intercalation assisted electrochemical exfoliation of graphite. 2021 , 25, 1245-1257	2
298	Graphene-based metal matrix nanocomposites: Recent development and challenges. 2021 , 55, 2369-2413	7
297	Preparation iron-nickel/graphene heterogeneous composites for enhanced microwave absorption performance via electrochemical exfoliation/deposition technique. <i>Materials Chemistry and Physics</i> , 4.4 2021 , 260, 124155	3
296	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. 2021 , 13, 8518-8527	9
295	Understanding Oxygen Bubble-Triggered Exfoliation of Graphite Toward the Low-Defect Graphene. 2021 , 8, 2001899	2
294	Synthesis and Characterization of Graphene Sheets from Graphite through Electrochemical Exfoliation and Microwave Reduction. 875, 127-137	O
293	A novel preparation of water-dispersed graphene and their application to electrochemical detection of dopamine. 2021 , 32, 619-629	3
292	Significant Capacitance Enhancement via In Situ Exfoliation of Quasi-One-Dimensional Graphene Nanostripes in Supercapacitor Electrodes. 2021 , 6, 5679-5688	O

291	Thermal Reductive Perforation of Graphene Cathode for High-Performance Aluminum-Ion Batteries. 2021 , 31, 2010569	15
290	The effect of voltage bias on the yield and electrical properties of Exfoliated Graphene synthesized via electrochemical method. 2021 , 1098, 062069	1
289	Halogen Functionalization in the 2D Material Flatland: Strategies, Properties, and Applications. 2021 , 17, e2005640	4
288	Docking MOF crystals on graphene support for highly selective electrocatalytic peroxide production. 2021 , 1-8	2
287	Droplet-Based Techniques for Printing of Functional Inks for Flexible Physical Sensors. 2021 , 33, e2006792	35
286	Effect of electrolyte concentration on the synthesis of graphene by electrochemical exfoliation process. 2021 , 1106, 012013	O
285	Energetically efficient and electrochemically tuneable exfoliation of graphite: process monitoring and product characterization. 2021 , 56, 10859-10875	2
284	Few-Layer Tellurium: Cathodic Exfoliation and Doping for Collaborative Hydrogen Evolution. 2021 , 17, e2007768	3
283	Electrochemical Production of Graphene Analogs from Various Graphite Materials. 2021, 50, 503-509	2
282	Liquid-Exfoliated 2D Materials for Optoelectronic Applications. 2021 , 8, e2003864	23
281	Mass Transport Behaviors in Graphene and Polyaniline Heterostructure B ased Microsupercapacitors. 2021 , 2, 2100006	O
280	One-step preparation of gold nanoparticles - exfoliated graphene composite by gamma irradiation at low doses for photothermal therapy applications. 2021 , 173, 110944	О
279	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. 2021 , 1-48	17
278	Electrochemical preparation and characterization of polyaniline enhanced electrodes: An application for the removal of cadmium metals in industrial wastewater. <i>Materials Chemistry and 4.4 Physics</i> , 2021 , 261, 124221	5
277	Reduction of Electrochemically Exfoliated Graphene Films for High-Performance Electromagnetic Interference Shielding. 2021 , 13, 15827-15836	6
276	Electrical Properties of Electrochemically Exfoliated Graphite with Copper Addition. 2021, 1811, 012042	
275	Interlayer Separation in Graphene Paper Comprising Electrochemically Exfoliated Graphene. 2021 , 11,	1
274	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. 2021 , 48, 176-176	17

(2021-2021)

273	Flourishing an Electrochemical Synthetic Route toward Carbon Black-Intercalated Graphene As a Neoteric Hybrid Nanofiller for Multifunctional Polymer Nanocomposites. 2021 , 60, 5758-5769	2
272	Electrochemical characterization of graphene-type materials obtained by electrochemical exfoliation of graphite. 2021 , 887, 115084	3
271	Graphene/PVDF Composites for Ni-rich Oxide Cathodes Toward High-Energy Density Li-ion Batteries. 2021 , 14,	3
270	Infiltration-Assisted Assembly of Flexible Noniridescent Amorphous Colloidal Arrays on Exfoliated Graphene Laminates for Structural Color Applications. 2021 , 4, 3893-3899	2
269	Atomic metal, N, S co-doped 3D porous nano-carbons: Highly efficient catalysts for HT-PEMFC. 2021 , 46, 13180-13189	5
268	Elucidating the structural redox behaviors of nanostructured expanded graphite anodes toward fast-charging and high-performance lithium-ion batteries. 2021 , 175, 187-201	9
267	One step electrochemical exfoliation of natural graphite flakes into graphene oxide for polybenzimidazole composite membranes giving enhanced performance in high temperature fuel cells. 2021 , 491, 229550	10
266	Graphene collage on Ni-rich layered oxide cathodes for advanced lithium-ion batteries. 2021 , 12, 2145	24
265	Voltammetric Determination of Amoxicillin Using a Reduced Graphite Oxide Nanosheet Electrode. 2021 , 2021, 8823452	7
264	Boron from net charge acceptor to donor and its effect on hydrogen uptake by novel Mg-B-electrochemically synthesized reduced graphene oxide. 2021 , 11, 10995	2
263	Graphene family for hydrogen peroxide production in electrochemical system. 2021 , 769, 144491	5
263	Graphene family for hydrogen peroxide production in electrochemical system. 2021 , 769, 144491 Layered Intercalation Materials. 2021 , 33, e2004557	5 37
262	Layered Intercalation Materials. 2021 , 33, e2004557 Facile Synthesis of Holey Phosphorene via Low Temperature Electrochemical Exfoliation for	37
262	Layered Intercalation Materials. 2021 , 33, e2004557 Facile Synthesis of Holey Phosphorene via Low Temperature Electrochemical Exfoliation for Electrocatalytic Nitrogen Reduction. 2021 , 6, 5021-5026 Real-time imaging of Na reversible intercalation in "Janus" graphene stacks for battery	37 1
262 261 260	Layered Intercalation Materials. 2021, 33, e2004557 Facile Synthesis of Holey Phosphorene via Low Temperature Electrochemical Exfoliation for Electrocatalytic Nitrogen Reduction. 2021, 6, 5021-5026 Real-time imaging of Na reversible intercalation in "Janus" graphene stacks for battery applications. 2021, 7,	37 1 21
262 261 260 259	Layered Intercalation Materials. 2021, 33, e2004557 Facile Synthesis of Holey Phosphorene via Low Temperature Electrochemical Exfoliation for Electrocatalytic Nitrogen Reduction. 2021, 6, 5021-5026 Real-time imaging of Na reversible intercalation in "Janus" graphene stacks for battery applications. 2021, 7, Carbon Substrates for Flexible Supercapacitors and Energy Storage Applications. 2021, 95-141	37 1 21

A Two-Dimensional Polyimide-Graphene Heterostructure with Ultra-fast Interlayer Charge Transfer. **2021**, 133, 13978-13983

254	Electric field driven exfoliation of MoS2. 2021 , 862, 158551	6
253	Regulating cations and solvents of the electrolyte for ultra-efficient electrochemical production of high-quality graphene. 2021 , 176, 157-167	7
252	Two-dimensional black phosphorus: Properties, fabrication and application for flexible supercapacitors. 2021 , 412, 128744	10
251	Synthesis and functionalization of 2D nanomaterials for application in lithium-based energy storage systems. 2021 , 38, 200-230	4
250	Stable and boosted oxygen evolution efficiency of mixed metal oxide and borate planner heterostructure over heteroatom (N) doped electrochemically exfoliated graphite foam. 2021 , 370, 83-92	О
249	Enhanced electrochemical production and facile modification of graphite oxide for cost-effective sodium ion battery anodes. 2021 , 177, 71-78	14
248	Scalable combustion synthesis of graphene-welded activated carbon for high-performance supercapacitors. 2021 , 414, 128781	58
247	One-pot synthesis of pre-reduced graphene oxide for efficient production of high-quality reduced graphene oxide and its lithium storage application. <i>Materials Chemistry and Physics</i> , 2021 , 265, 124523 4.4	2
246	Graphene preparation and graphite exfoliation. 2021 , 45, 493-519	3
245	Scalable activated carbon/graphene based supercapacitors with improved capacitance retention at high current densities. 2021 , 45, 927-941	2
244	Synthesis of Phosphorus Doped Graphenes via the Yucel Method as the Positive Electrode of a Vanadium Redox Flow Battery. 2021 , 168, 060504	3
243	Printed flexible supercapacitor: Ink formulation, printable electrode materials and applications. 2021 , 8, 021319	22
242	Water Electrolysis Accompanied by Side Reactions. 2021 , 98, 2381-2386	2
241	Application of Nanomaterials for Chemical and Biological Sensors: A Review. 2021 , 21, 12407-12425	6
240	On the mechanistic pathways of exfoliation-and-deposition of graphene by bipolar electrochemistry. 2021 , 32,	3
239	Constructing PEDOT:PSS/Graphene sheet nanofluidic channels to achieve dendrite-free Zn anode. 2021 , 215, 108798	12
238	Advances in Liquid-Phase and Intercalation Exfoliations of Transition Metal Dichalcogenides to Produce 2D Framework. 2021 , 8, 2002205	15

237	Graphene production by cracking. 2021 , 379, 20200293	3
236	Electrochemically exfoliated graphene sheets as electrode material for aqueous symmetric supercapacitors. 2021 , 416, 127150	14
235	Electrochemical approach toward reduced graphene oxide-based electrodes for environmental applications: A review. 2021 , 778, 146301	11
234	Supercritical CO2-assisted microfluidization as ultra-high efficiency strategy for graphene preparation. 2021 , 56, 15653-15666	
233	Electrochemically Exfoliated Graphite Nanosheet Films for Electromagnetic Interference Shields. 2021 , 4, 7221-7233	3
232	A structured catalyst support combining electrochemically exfoliated graphene oxide and carbon black for enhanced performance and durability in low-temperature hydrogen fuel cells. 2021 , 226, 120318	9
231	Highly Water-Dispersible Graphene Nanosheets From Electrochemical Exfoliation of Graphite. 2021 , 9, 699231	3
230	A facile and mild route for the preparation of holey phosphorene by low-temperature electrochemical exfoliation. 2021 , 128, 107074	2
229	Reassessing the Necessity of the Drying Step in Hummer's Method for Graphene Oxide Synthesis.	2
228	Interactions between Reduced Graphene Oxide with Monomers of (Calcium) Silicate Hydrates: A First-Principles Study. 2021 , 11,	6
227	Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7942-7963	2
226	Advanced Metallic and Polymeric Coatings for Neural Interfacing: Structures, Properties and Tissue Responses. 2021 , 13,	4
225	Innovative approach for the synthesis of graphene/MnO2 nanocomposites and their electrochemical behavior. 2100029	О
224	High-concentration graphene dispersions prepared via exfoliation of graphite in PVA/H2O green solvent system using high-shear forces. 2021 , 23, 1	2
223	A phosphorus integrated strategy for supercapacitor: 2D black phosphorusdoped and phosphorus-doped materials. 2021 , 21, 100480	6
222	Hybrid energy storage using nitrogen-doped graphene and layered-MXene (Ti3C2) for stable high-rate supercapacitors. <i>Electrochimica Acta</i> , 2021 , 388, 138664	4
221	Simultaneous Anodic and Cathodic Exfoliation of Graphite Electrodes in an Aqueous Solution of Inorganic Salt. 2021 , 8, 3168-3173	3
220	Synthesis of nickel cobalt manganese metal organic framework@high quality graphene composites as novel electrode materials for high performance supercapacitors. 2021 , 895, 115452	1

219	Rechargeable Mg-Ion Full Battery System with High Capacity and High Rate. 2021 , 13, 40451-40459		6
218	Chemical and electrochemical synthesis of graphene oxide. 2021 , 2021, 115-120		
217	Battery-operated resistive sensor based on electrochemically exfoliated pencil graphite core for room temperature detection of LPG. 2021 , 343, 130133		2
216	Heterostructured Mn3O4-2D material nanosheets: One-step vacuum kinetic spray deposition and non-enzymatic H2O2 sensing. 2021 , 47, 35111-35111		1
215	ENi(OH)2/nickel-cobalt layered double hydroxides coupled with fluorine-modified graphene as high-capacitance supercapacitor electrodes with improved cycle life. 2021 , 875, 159929		5
214	Recent Progress in the Electrochemical Exfoliation of Colloidal Graphene: A Review.		1
213	Rapid fabrication of partially exfoliated graphite foil with 3D hierarchical structure and its application in electrochemical detection of olaquindox. <i>Electrochimica Acta</i> , 2021 , 392, 139039	6.7	
212	Sonoelectrochemical exfoliation of graphene in various electrolytic environments and their structural and electrochemical properties. 2021 , 184, 266-276		5
211	On the physical and electrochemical properties of MLG-based electrode surfaces modified by microwave-assisted reactive plasma. 2021 , 272, 115346		1
21 0	Nanostructured electrodes for electrocatalytic advanced oxidation processes: From materials preparation to mechanisms understanding and wastewater treatment applications. 2021 , 296, 120332		26
209	A systematic study of electrolyte effect on exfoliation efficiency and green synthesis of graphene oxide. 2021 , 47, 32276-32289		0
208	Cu/graphene composite coatings electrodeposited in a directly dispersed graphene solution after electrochemical exfoliation with enhanced oxidation resistance. 2021 , 882, 160706		O
207	Reduced graphene oxide impregnated in TiO2 for photodegradation of dyes monitored in UV-LED mini-reactor. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125020	4.4	2
206	Two-dimensional nanomaterials for cancer application. 2022 , 321-331		1
205	Anodized graphite felt as an efficient cathode for in-situ hydrogen peroxide production and Electro-Fenton degradation of rhodamine B. 2022 , 286, 131936		4
204	Synthesis/preparation and surface modification/functionalization of graphene, and concept of nanocomposites. 2022 , 1-44		
203	Delocalized electrochemical exfoliation toward high-throughput fabrication of high-quality graphene. 2022 , 428, 131122		2
202	Sensing Materials: Graphene. 2021 ,		O

201	Graphene and water-based elastomer nanocomposites - a review. 2021 , 13, 9505-9540	4
200	Applications of Graphene-Based Nanomaterials. 2021 , 1069-1093	
199	Emergent 2D materials for combating infectious diseases: the potential of MXenes and MXenegraphene composites to fight against pandemics. 2021 , 2, 2892-2905	26
198	Facile synthetic route to exfoliate high quality and super-large lateral size graphene-based sheets and their applications in SERS and CO gas sensing 2021 , 11, 9488-9504	4
197	A comprehensive review on selected graphene synthesis methods: from electrochemical exfoliation through rapid thermal annealing towards biomass pyrolysis.	9
196	Scalable one-step production of electrochemically exfoliated graphene decorated with transition metal oxides for high-performance supercapacitors. 2021 , 13, 15859-15868	1
195	Emerging 2D Materials Produced via Electrochemistry. 2020 , 32, e1907857	72
194	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. 2020 , 26, 6583-6590	18
193	Ein Schwamm gegen [þest. 2019 , 67, 15-17	1
192	First demonstration of gate voltage-less chemical vapour deposition graphene for non-vacuum thermoelectric study. 2018 ,	1
191	Electrochemical Synthesis of Multilayered Graphene and Its Use in CoNC Electrocatalysts of Oxygen Reduction and Hydrogen Evolution. 2020 , 56, 271-284	5
190	Review B rogress of Research on the Preparation of Graphene Oxide via Electrochemical Approaches. 2020 , 167, 155519	16
189	Progress in Graphene Synthesis and its Application: History, Challenge and the Future Outlook for Research and Industry. 2020 , 9, 093013	19
188	Electrical and Chemical Properties of Graphene over Composite Materials: A Technical Review. 2019 , 16, 142-163	9
187	STRATEGIES OF FABRICATING GRAPHENE AND GRAPHENE-ANALOGOUS 2D NANOSHEETS. 2018 , 211-220	2
186	Tunable time-resolved tick-tock pulsed digital holographic microscopy for ultrafast events. 2017 , 42, 2082-2085	11
185	Preparation of magnetized iron oxide grafted on graphene oxide for hyperthermia application. 2019 ,	2
184	In situ single-step reduction of bromine-intercalated graphite to covalently brominated and alkylated/brominated graphene. 2020 , 35, 1472-1480	3

183	Graphene Oxide and Its Derivatives: Their Synthesis and Use in Organic Synthesis. 2019 , 23, 188-204	6
182	Novel Green Micro-Synthesis of Graphene-Titanium Dioxide Nano- Composites with Photo-Electrochemical Properties. 2019 , 15, 606-617	1
181	2D printing technologies using graphene based materials. 2017 , 187, 220-234	4
180	Graphene Oxide/Multilayer-Graphene Synthesized from Electrochemically Exfoliated Graphite and Its Influence on Mechanical Behavior of Polyurethane Composites. 2018 , 09, 565-575	1
179	Synthesis Methods for Carbon-Based Materials. 2021 , 367-420	
178	Large-scale and clean preparation of low-defect few-layered graphene from commercial graphite via hydroxyl radical exfoliation in an acidic medium.	
177	Visualization of Transition Metal Decoration on h-BN Surface. 2021,	1
176	Efficient preparation of high-quality graphene via anodic and cathodic simultaneous electrochemical exfoliation under the assistance of microwave. 2021 , 608, 1422-1431	O
175	Laser-induced dynamic alignment and nonlinear-like optical transmission in liquid suspensions of 2D atomically thin nanomaterials. 2021 , 29, 36389-36399	О
174	Packing Sulfur Species by Phosphorene-Derived Catalytic Interface for Electrolyte-Lean LithiumBulfur Batteries. 2106966	5
173	Inkjet Printed Disposable High-Rate On-Paper Microsupercapacitors. 2022, 32, 2108773	8
172	Electrochemical Exfoliation of 2D Advanced Carbon Derivatives.	2
171	Facile Fabrication of MnO/Graphene/Ni Foam Composites for High-Performance Supercapacitors. 2021 , 11,	6
170	Effect of graphite exfoliation routes on the properties of exfoliated graphene and its photocatalytic applications. 2021 , 9, 106506	2
169	Evolution and recent developments of high performance electrode material for supercapacitors: A review. 2021 , 44, 103366	10
168	Facile Synthesis of Large Surface Area Graphene and Its Applications. 2017 , 159-175	
167	Life Cycle Assessment of Graphene as Heating Element. 2019 , 283-297	1
166	CHAPTER 6:Graphene: Preparation and Applications. 2020 , 100-130	

165	Effect of large graphene particle size on structure, optical property and photocatalytic activity of graphene-titanate nanotube composites. 2021 , 122, 111662	О
164	Influence of graphene oxide synthesis methods on the electrical conductivity of cotton/graphene oxide composites. 1-11	O
163	Highly efficient purification of natural coaly graphite via an electrochemical method. 2022 , 281, 119931	1
162	Synthesis and Fabrication of Photoactive Nanocomposites Electrodes for the Degradation of Wastewater Pollutants. 2020 , 19-38	
161	Production of Reduced Graphene Oxide (rGO) from Battery Waste: Green and Sustainable Synthesis and Reduction. 2020 , 329-358	
160	Graphene Flake Self-Assembly Enhancement via Stretchable Platforms and External Mechanical Stimuli. 2021 , 6, 30607-30617	O
159	Scalably Nanomanufactured Atomically Thin Materials-Based Wearable Health Sensors. 2100120	3
158	The electrical conductivity of solution-processed nanosheet networks.	21
157	Review of electrochemical production of doped graphene for energy storage applications. 2021 , 46, 103527	2
156	Graphene: An Insight Into Electrochemical Sensing Technology. 2020 , 169-233	
155	Interfacial Modulation of Graphene by Polythiophene with Controlled Molecular Weight to Enhance Thermal Conductivity. 2021 , 11,	1
155 154		2
	Enhance Thermal Conductivity. 2021 , 11, Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process	
154	Enhance Thermal Conductivity. 2021 , 11, Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process parameters in top-down and bottom-up synthesis approaches. 2021 , 139, 106313 One-step mechanical exfoliation and deposition of layered materials (graphite, MoS2, and BN) by	2
154	Enhance Thermal Conductivity. 2021, 11, Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process parameters in top-down and bottom-up synthesis approaches. 2021, 139, 106313 One-step mechanical exfoliation and deposition of layered materials (graphite, MoS2, and BN) by vacuum-kinetic spray process. 2021, 196, 110732 Investigating the synergistic initiating effect on promoting methane hydrate formation via mixed	2
154 153 152	Enhance Thermal Conductivity. 2021, 11, Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process parameters in top-down and bottom-up synthesis approaches. 2021, 139, 106313 One-step mechanical exfoliation and deposition of layered materials (graphite, MoS2, and BN) by vacuum-kinetic spray process. 2021, 196, 110732 Investigating the synergistic initiating effect on promoting methane hydrate formation via mixed graphene and sodium cholate. 2021, 349, 118134 Recent Advances in Manifold Exfoliated Synthesis of Two-Dimensional Non-precious Metal-Based	2 1 0
154 153 152 151	Enhance Thermal Conductivity. 2021, 11, Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process parameters in top-down and bottom-up synthesis approaches. 2021, 139, 106313 One-step mechanical exfoliation and deposition of layered materials (graphite, MoS2, and BN) by vacuum-kinetic spray process. 2021, 196, 110732 Investigating the synergistic initiating effect on promoting methane hydrate formation via mixed graphene and sodium cholate. 2021, 349, 118134 Recent Advances in Manifold Exfoliated Synthesis of Two-Dimensional Non-precious Metal-Based Nanosheet Electrocatalysts for Water Splitting. 2100153	2 1 0

147	Graphene as reinforcing filler in polyvinyl acetate resin. 2022 , 113, 103075	4
146	Formation and role in gas sensing properties of spherical and hollow silver nanoparticles deposited on the surface of electrochemically exfoliated graphite. 2022 , 580, 152316	O
145	A new approach to regenerate high-performance graphite from spent lithium-ion batteries. 2022 , 189, 293-304	2
144	A facile approach to fabricating graphene/waterborne epoxy coatings with dual functionalities of barrier and corrosion inhibitor. 2022 , 112, 263-276	O
143	Cyclic production of biocompatible few-layer graphene ink with in-line shear-mixing for inkjet-printed electrodes and Li-ion energy storage. 2022 , 6,	1
142	Effect of growth parameters on morphology and quality of magnetic graphene-cobalt nanocomposite made by electrochemical deposition/exfoliation. 2022 , 33, 3801	O
141	Epitaxial Engineering Strategy to Amplify Localized Surface Plasmon Resonance and Electrocatalytic Activity Enhancement in Layered Bismuth Selenide by Phosphorus Functionalization.	0
140	Flexible high dielectric polystyrene/ethylene-bottene copolymer/graphene nanocomposites: Tuning the morphology and dielectric properties by graphene's surface polarity. 2022 , 33, 937-951	2
139	Electric-Field-Triggered Graphene Production: From Fundamental Energy Applications to Perspectives.	1
138	A Review on Mechanochemistry: Approaching Advanced Energy Materials with Greener Force 2022 , e2108327	5
137	Biomimetic Hierarchically Silver Nanowire Interwoven MXene Mesh for Flexible Transparent Electrodes and Invisible Camouflage Electronics 2022 ,	5
136	Exfoliating spent cathode materials with robust interlayer interactions into atomic-thin nanosheets for boosting the oxygen evolution reaction.	3
135	A fast and high-efficiency electrochemical exfoliation strategy towards antimonene/carbon composites for selective lubrication and sodium-ion storage applications 2022 ,	0
134	Beyond sonication: Advanced exfoliation methods for scalable production of 2D materials. 2022 , 5, 515-545	3
133	Field emission arrays from graphite fabricated by laser micromachining. 2022 , 40, 023203	0
132	Two-dimensional nanomaterial-based polymer composites: Fundamentals and applications. 2022 , 11, 770-792	5
131	Hierarchical Porous Nitrogen-Doped Spray-Dried Graphene for High Performance Capacitive Deionization. 2100190	О
130	Screen-Printed Structures from a Highly Conductive Mildly Oxidized Graphene Suspension for Flexible Electronics 2022 , 15,	

129	Peptide-Driven Exfoliation and Dispersion Mechanisms of Graphene in Aqueous Media. <i>Journal of Physical Chemistry Letters</i> , 2021 , 11945-11950	6.4
128	Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature. SSRN Electronic Journal,	1
127	Molecular adsorption by biochar produced by eco-friendly low-temperature carbonization investigated using graphene structural reconfigurations. 2022 , 15, 287-295	Ο
126	Synthetic Protocols. 2022 , 65-110	
125	High-Performance Dual-Ion Battery Based on a Layered Tin Disulfide Anode 2022, 7, 7616-7624	0
124	Recent Progress of Atomic Layer Technology in Spintronics: Mechanism, Materials and Prospects 2022 , 12,	Ο
123	Advances and issues in developing intercalation graphite cathodes for aqueous batteries. 2022,	1
122	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. 2100342	3
121	2D Materials for Wearable Energy Harvesting. 2101623	1
120	Development of Exfoliated Graphite using Innovative Chemical Technique for Aerospace Applications (2022-01-0051).	
119	Highly sensitive detection of kinetin with electrochemical exfoliation of graphene nanosheets. 2022 , 128, 1	0
118	Construction of Graphene-Based "In-Paper" 3D Interdigital Microelectrodes for High Performance Metal-Free Flexible Supercapacitors 2022 , e2101454	Ο
117	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. 1	4
116	An electrochemical route to holey graphene nanosheets for charge storage applications. 2022,	O
115	Green syntheses of graphene and its applications in internet of things (IoT) - a status review 2022,	O
114	Layer structured materials for ambient nitrogen fixation. 2022 , 460, 214468	1
113	Graphitic carbon from catalytic methane decomposition as efficient conductive additives for zinc-carbon batteries. 2022 , 192, 84-92	0
112	Suppressing water decomposition for controllable exfoliation of graphite in water-in-salt electrolyte. 2022 , 591, 153109	O

Past, present and future of materials applications for CO2 capture: A bibliometric analysis. 2022, 8, 4252-4264 o

110	120GHz Schottky Terahertz Transceivers with Graphene FET Sub-Harmonic Mixers. 2021 ,	
109	Electrochemical Nitrate Production Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets 2021 ,	3
108	Secondary Exfoliation of Electrolytic Graphene Oxide by Ultrasound Assisted Microwave Technique 2021 , 12,	O
107	Soft Bioelectronics Based on Nanomaterials 2021,	11
106	InDence of C=O groups on the optical extinction coellient of graphene exfoliated in liquid phase. 2021 ,	O
105	Voltammetric Determination of 5-Hydroxymethyl-2-furfural in Processed Cheese Using an Easy-Made and Economic Integrated 3D Graphene-like Electrode 2021 , 22,	1
104	The scalable production of high-quality nanographite by organic radical-assisted electrochemical exfoliation 2021 , 2086, 012014	
103	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. 2021 , 4, 893-905	13
102	Recent progress in the all-solid-state flexible supercapacitors.	1
101	Polymer nanocomposites based on graphite nanoplatelets (GNPs): a review on thermal-electrical conductivity, mechanical and barrier properties. 2022 , 57, 7425-7480	0
100	Novel synthesis of multicomponent porous nano-hybrid composite, theoretical investigation using DFT and dye adsorption applications: disposing of waste with waste 2022 , 1	1
99	Achievements and Challenges of Graphene Chemical Vapor Deposition Growth. 2203191	2
98	Electrochemical Synthesis of Few Layer Graphene in Subcritical Electrolyte. 2022 , 105627	
97	Rapid fabrication of high-quality few-layer graphene through gel-phase electrochemical exfoliation of graphite for high-energy-density ionogel-based micro-supercapacitors. 2022 , 196, 203-212	2
96	Oxygen/fluorine-functionalized flexible carbon electrodes for high-performance and anti-self-discharge Zn-ion hybrid capacitors. 2022 , 538, 231586	O
95	2D Single- and Few-Layered MXene: Synthesis, applications and perspectives.	5
94	Systematic study of physicochemical and electrochemical properties of carbon nanomaterials. 2022 , 12, 15593-15600	1

93	Bilayer-favored intercalation induced efficient and selective liquid phase production of bilayer graphene.		0
92	Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature. 2022 , 153788		0
91	Interlayer Engineering of Band Gap and Hole Mobility in p-Type Oxide SnO.		3
90	Application of Reduced Graphene Oxide for Hole Transport Layer in Organic Solar Cells Synthesized from Waste Dry Cell Using Electrochemical Exfoliation Method.		1
89	Synthesis, Modification, and Application of Black Phosphorus, Few-Layer Black Phosphorus (FLBP), and Phosphorene: A Detailed Review.		0
88	A Graphene-Coated Thermal Conductive Separator to Eliminate the Dendrite-Induced Local Hotspots for Stable Lithium Cycling. 2201190		4
87	A New Approach to Turbostratic Carbon Production Via Thermal Salt-Assisted Treatment of Graphite. SSRN Electronic Journal,	1	
86	Graphene synthesis, fabrication, characterization based on bottom-up and top-down approaches: An overview. 2022 , 43, 061101		1
85	Nanographenes and Graphene Nanoribbons as Multitalents of Present and Future Materials Science. <i>Journal of the American Chemical Society</i> ,	16.4	8
84	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications.		O
83	Site-Selective Bipolar Electrodeposition of Gold Clusters on Graphene Oxide Microsheets at a 3D Air Liquid Interface. 2200304		1
82	Prototyping and Evaluation of Graphene-Based Piezoresistive Sensors. <i>Electronic Materials</i> , 2022 , 3, 218	-2.86	O
81	Recent advances on graphene: Synthesis, properties and applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 160, 107051	8.4	4
80	Graphene oxide: Synthesis and properties. 2022 , 31-64		
79	Scalable Production of Electrochemically Exfoliated Graphene by an Extensible Electrochemical Reactor with Encapsulated Anode and Dual Cathodes. <i>SSRN Electronic Journal</i> ,	1	
78	Graphite to graphene conversion via modified electrochemical exfoliation method. MRS Advances,	0.7	
77	Preparation, Crystallization Behavior, Simultaneous Spectroscopic and Rheological Characterization of Polyphenylene Sulfide/Graphene Quantum Dots Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2200149	2.6	
76	Three-Dimensional Micro/Nano-interconnected Scaffold Graphene-Based Micro-Supercapacitors with High Electrochemical Performance. <i>Electrochimica Acta</i> , 2022 , 140864	6.7	1

75	Universal Principle for Large-Scale Production of a High-Quality Two-Dimensional Monolayer via Positive Charge-Driven Exfoliation. <i>Journal of Physical Chemistry Letters</i> , 6597-6603	6.4	2
74	In-situ synthesis of mixed-phase carbon material using simple pyrolysis method for high-performance supercapacitor. <i>Diamond and Related Materials</i> , 2022 , 127, 109209	3.5	O
73	An electrochemical route to exfoliate vein graphite into graphene with black tea. <i>Materials Chemistry and Physics</i> , 2022 , 289, 126450	4.4	2
7 2	Fabrication of Binderless Electrodes via Non-destructive Electrochemical Oxidation/Reduction of Graphite Sheets using BF4 Salts. 2022 , 141087		2
71	Overview and Outlook on Graphene and Carbon Nanotubes in Perovskite Photovoltaics from Single-Junction to Tandem Applications. 2204594		1
70	Bubble-Mediated Mass Production of Graphene: A Review. 2203124		2
69	Realization and characterization of flexible supercapacitors based on doped graphene electrodes.		0
68	Catalytic graphene-mediated oxygen blocking and depletion for enhancing dual passive/active anticorrosion of epoxy coatings.		
67	Cation-anion redox active organic complex for high performance aqueous zinc ion battery.		О
66	Graphene-based electrode materials used for some pesticide detection in food samples: A review. 2022 , 144, 109891		1
65	Screen printing preparation of high-performance flexible planar micro-supercapacitors based on MoS2 nanoparticles decorated electrochemically exfoliated graphene. 2022 , 429, 141041		1
64	Electrochemical Determination of 4-Bromophenoxyacetic Acid Based on CeO2/eGr Composite. 2022 , 12, 760		O
63	CHAPTER 5. Printable Inorganic Materials for Printed Electronics. 2022 , 103-192		О
62	Synthetic carbon nanomaterials for electrochemical energy conversion. 2022 , 14, 13473-13489		1
61	Electrochemically functionalized graphene for highly sensitive detection of nitrofurazone.		O
60	Review on the Effects of Electrochemical Exfoliation Parameters on the Yield of Graphene Oxide. 2022 , 7, 33719-33731		4
59	Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules. 2022 , 23, 10838		3
58	Cytotoxicity survey of commercial graphene materials from worldwide. 2022, 6,		2

57	Scalable production of electrochemically exfoliated graphene by an extensible electrochemical reactor with encapsulated anode and dual cathodes. 2022 , 155211	1
56	Exfoliation mechanisms of 2D materials and their applications. 2022 , 9, 041301	1
55	Non-Seed Chemical Bath Deposition of ZnO Films in a Rotating Continuous Flow Reactor with Various Carboxylic Acids and Their Application to Transparent Conductive Films.	О
54	Latest Fabrication Approaches for Surface Modified Carbon Materials: Carbon Nanotubes and Graphene. 27-47	O
53	Human-muscle-inspired single fibre actuator with reversible percolation.	1
52	An efficient interface model to develop scalable methodology of melt processing of polypropylene with graphene oxide produced by an improved and eco-friendly electrochemical exfoliation.	1
51	Nanoscale insights into the structure of solution-processed graphene by x-ray scattering. 2023 , 10, 015006	O
50	Enhanced thermal conductivity of epoxy composites reinforced with oriented polydopamine-graphene foam complexed by metal ions. 2023 , 610, 155309	O
49	Electrometallurgical recovery of nickel and vanadium from spent desulfurization catalysts using an acidic leaching-electrolysis technique.	O
48	Promising Supercapacitive and Photocatalytic Performances of TiO2 Nanotubes Loaded with Graphene: Insight on the Quantitaive Chatacterisation by EIS.	O
47	One-Step Synthesis of Aminobenzoic Acid Functionalized Graphene Oxide by Electrochemical Exfoliation of Graphite for Oxygen Reduction to Hydrogen Peroxide and Supercapacitors. 2022 , 27, 7629	O
46	A Comparative Analysis of the Effect of Carbonaceous Nanoparticles on the Physicochemical Properties of Hybrid Polyethersulfone Ultrafiltration Membranes. 2022 , 12, 1143	2
45	Direct Mask-Free Fabrication of Patterned Hierarchical Graphene Electrode for On-Chip Micro-Supercapacitors. 2022 ,	O
44	An environmentally friendly and simple method for producing multi-layer exfoliated graphene in mass production from pencil graphite and its utilization for removing cadmium from an aqueous medium.	O
43	Structural Modulation of Exfoliated Graphene via a Facile Postultrasonication Treatment toward Enhanced Electrochemical Properties of Supercapacitor Electrode.	1
42	Highly efficient dual-electrode exfoliation of graphite into high-quality graphene via square-wave alternating currents. 2023 , 456, 140977	1
41	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. 2023 , 145, 213234	2
40	Application of graphene and its derivatives in cementitious materials: An overview. 2023 , 65, 105721	O

39	Fabrication and characterization of nickel-encapsulated graphene-reinforced aluminium composites. 2022 , 45,	0
38	Embedded ultra-high stability flexible transparent conductive films based on exfoliated graphene-silver nanowires-colorless polyimide. 2023 , 34, 105203	O
37	Graphene environmental footprint greatly reduced when derived from biomass waste via flash Joule heating. 2022 , 5, 1394-1403	0
36	Plasma-Electrochemical Exfoliation of Graphite in Pulsed Mode. 2022 , 56, 487-492	O
35	Effects of Graphene Morphology on Properties of Carbon Nanotube/Polyurethane Film Strain Sensors. 2022 , 12, 1889	0
34	Production of Graphene Stably Dispersible in Ethanol by Microwave Reaction. 2022, 6, 75	O
33	Controllable Synthesis of 2D Materials by Electrochemical Exfoliation For Energy Storage and Conversion Application. 2206702	0
32	Unique graphene-carbon black hybrid nanofiller by a micromechanical cleavage technique as a reinforcing agent in elastomers: Fundamental and experimental studies.	O
31	Extraction of excessively reduced graphene oxide from discarded dry cell batteries by anodic exfoliation method. 2023 , 34,	0
30	Exfoliated graphite: room temperature exfoliation and their applications.	O
29	Graphene-Fundamentals. 2023 , 1-30	O
28	Energy-saving cathodic H2 production enabled by non-oxygen evolution anodic reactions: A critical review on fundamental principles and applications. 2023 ,	O
27	Wearable chemical sensors based on 2D materials for healthcare applications.	0
26	Enhanced Electrical Conductivity and Tensile Strength of Cu/Single-Layer Graphene/Cu Nanomaterials.	O
25	Two-step thermal treatment of electrochemical graphene oxide films for high-performance electrical heating and electromagnetic interference shielding. 2023 , 618, 156669	O
24	Graphene-Based Touch Sensors. 2023 , 54-70	O
23	Electrochemical behavior of matrix graphite in nitric acid by cyclic voltammetry. 2023, 581, 154411	О
22	Electrolyte effect in electrochemical exfoliation of graphite. 2023, 302, 127713	O

21	Preparation of eco-friendly mesoporous expanded graphite for oil sorption.	O
20	Electrochemical production of two-dimensional atomic layer materials and their application for energy storage devices. 2023 , 4, 011306	O
19	Synthesis of atomically thin sheets by the intercalation-based exfoliation of layered materials. 2023 , 2, 101-118	1
18	Synthesis of high-quality graphene by electrochemical anodic and cathodic co-exfoliation method. 2023 , 461, 141985	О
17	Tyrosine-Conjugation Method for Evaluating BACE1 Activity Based on Silver Nanoparticles/Metal®rganic Framework Composites as Electrochemical Tags.	О
16	Graphene and its quantum dots. 2023 , 1-25	O
15	Recent progress on the use of graphene-based nanomaterials in perovskite solar cells. 2023, 11, 6659-6687	О
14	Determination of the effect of hydrogen peroxide on the structure of graphene produced by electrochemical method. 2023 , 27, 1203-1211	O
13	Environmentally sustainable implementations of two-dimensional nanomaterials. 11,	O
12	Graphene prepared by flash joule heating from biowaste for microwave absorption. 2023,	О
11	Laser Cutting Coupled with Electro-Exfoliation to Prepare Versatile Planar Graphene Electrodes for Energy Storage. 2023 , 24, 5599	О
10	Insights into the Conductive Network of Electrochemical Exfoliation with Graphite Powder as Starting Raw Material for Graphene Production. 2023 , 39, 4413-4426	O
9	Non-van der Waals 2D Materials for Electrochemical Energy Storage. 2209360	О
8	Enhancement in ionic conductivity of liquid crystals by graphene/metal-oxide-nanocomposite.	О
7	Graphene Nano-Blister in Graphite for Future Cathode in Dual-Ion Batteries: Fundamentals, Advances, and Prospects. 2207426	О
6	Comparing Two Types of Graphene-Magnetic Nanocomposites with Enhanced Electromagnetic Properties Synthesized by Two Different Exfoliation Methods.	O
5	Study of the electroplating process parameters on the electrical resistance of an aluminium alloy with a Cu-graphene-based coating. 1-12	O
4	Photoelectrocatalytic activity of silicon nanowires decorated with electroless copper nanoparticles and graphene oxide using a plasma jet for removal of methyl orange under visible light. 2023 , 13, 10621-1063	35 ^O

Green and Sustainable Ultrasound-Assisted Anodic Electrochemical Preparation of Graphene Oxide Dispersions and Their Antioxidant Properties. **2023**, 28, 3238

О

Microbial reduction of graphene oxide and its application in microbial fuel cells and biophotovoltaics. **2023**, 17,

О

Improving the rate capability of microporous activated carbon-based supercapacitor electrodes using non-porous graphene oxide.

О