Flash reduction and patterning of graphite oxide and its polymer composite

DOI: 10.1021/ja902348k
Journal of the American Chemical Society, 2009, 131, 11027-32

#	Paper	IF	Citations
780	From plants to birds: higher avian predation rates in trees responding to insect herbivory. **2008**, 3, e2832		106
779	Pressure-induced insertion of liquid alcohols into graphite oxide structure. *Journal of the American Chemical Society*, **2009**, 131, 18445-9	16.4	66
778	Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H2. **2010**, 39, 750-752		22
777	Reduced graphene oxide by chemical graphitization. **2010**, 1, 73		1645
776	Sandwich Complex of TATB/Graphene: An Approach to Molecular Monolayers of Explosives. **2010**, 114, 22684-22687		45
775	Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. **2010**, 114, 832-842		883
774	Fabrication, mechanical properties, and biocompatibility of graphene-reinforced chitosan composites. **2010**, 11, 2345-51		479
773	Pressure-Induced Insertion of Liquid Acetone into the Graphite Oxide Structure. **2010**, 114, 7004-7006		21
772	Graphene nanomesh by ZnO nanorod photocatalysts. *ACS Nano*, **2010**, 4, 4174-80	16.7	612
771	Toward a universal "adhesive nanosheet" for the assembly of multiple nanoparticles based on a protein-induced reduction/decoration of graphene oxide. *Journal of the American Chemical Society*, **2010**, 132, 7279-81	16.4	726
770	Graphene-based materials as supercapacitor electrodes. **2010**, 20, 5983		1171
769	Simple photoreduction of graphene oxide nanosheet under mild conditions. **2010**, 2, 3461-6		190
768	Thinnest two-dimensional nanomaterial-graphene for solar energy. **2010**, 3, 782-96		185
767	Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. **2010**, 20, 2255-2262		663
766	Self-Propagating Domino-like Reactions in Oxidized Graphite. **2010**, 20, 2867-2873		271
765	Detonation Nanodiamond and Onion-Like-Carbon-Embedded Polyaniline for Supercapacitors. **2010**, 20, 3979-3986		208
764	Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. **2010**, 22, 2392-415		1818

763	Graphene oxide: surface activity and two-dimensional assembly. **2010**, 22, 1954-8		537
762	Flash nano-welding: investigation and control of the photothermal response of ultrathin bismuth sulfide nanowire films. **2010**, 22, 4395-400		21
761	Electric current induced reduction of graphene oxide and its application as gap electrodes in organic photoswitching devices. **2010**, 22, 5008-12		81
760	Cellulose acetate/multiwalled carbon nanotube nanocomposites with improved mechanical, thermal, and electrical properties. **2010**, 118, n/a-n/a		6
759	Direct imprinting of microcircuits on graphene oxides film by femtosecond laser reduction. **2010**, 5, 15-20		393
758	Physical and mechanical properties of poly(methyl methacrylate) -functionalized graphene/poly(vinylidine fluoride) nanocomposites: Piezoelectric polymorph formation. **2010**, 51, 5846-5856		210
757	Graphene–gold nanostructure composites fabricated by electrodeposition and their electrocatalytic activity toward the oxygen reduction and glucose oxidation. **2010**, 56, 491-500		156
756	Variations in the microstructure and electrical resistance of the SWCNT films under consecutive photoflash exposures. *Carbon*, **2010**, 48, 1652-1661	10.4	1
755	Microwave assisted exfoliation and reduction of graphite oxide for ultracapacitors. *Carbon*, **2010**, 48, 2118-2122	10.4	698
754	Gaseous products of thermo- and photo-reduction of graphite oxide. **2010**, 498, 287-291		57
753	Seeing graphene-based sheets. *Materials Today*, **2010**, 13, 28-38	21.8	147
752	Multilayer stacked low-temperature-reduced graphene oxide films: preparation, characterization, and application in polymer memory devices. **2010**, 6, 1536-42		104
751	Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. **2010**, 6, 711-23		2103
750	Flexible Chemical Sensors. **2010**, 247-273		2
749	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. **2010**, 22, 4153-4157		156
748	Polyoxometalate assisted photoreduction of graphene oxide and its nanocomposite formation. **2010**, 46, 6243-5		154
747	Electrochemical approach for detection of extracellular oxygen released from erythrocytes based on graphene film integrated with laccase and 2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid). **2010**, 82, 3588-96		103
746	Direct fabrication of photoconductive patterns on LBL assembled graphene oxide/PDDA/titania hybrid films by photothermal and photocatalytic reduction. **2010**, 20, 5190		88

745	A roadmap to high quality chemically prepared graphene. **2010**, 43, 374015		48
744	Recent advance in functionalized graphene/polymer nanocomposites. **2010**, 20, 7906		415
743	Local current mapping and patterning of reduced graphene oxide. *Journal of the American Chemical Society*, **2010**, 132, 14130-6	16.4	126
742	Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. *ACS Nano*, **2010**, 4, 1227-33	16.7	615
741	Synthesis of graphene aerogel with high electrical conductivity. *Journal of the American Chemical Society*, **2010**, 132, 14067-9	16.4	975
740	Photocatalytic degradation of dyes over graphene-gold nanocomposites under visible light irradiation. **2010**, 46, 6099-101		480
739	Ultrafast, dry microwave synthesis of graphene sheets. **2010**, 20, 4781		112
738	Pulsed laser assisted reduction of graphene oxide as a flexible transparent conducting material. **2010**,		
737	Photothermal Deoxygenation of Graphite Oxide with Laser Excitation in Solution and Graphene-Aided Increase in Water Temperature. **2010**, 1, 2804-2809		243
736	In situ Polymerization Approach to Graphene-Reinforced Nylon-6 Composites. **2010**, 43, 6716-6723		569
735	Formation of Graphene Features from Direct Laser-Induced Reduction of Graphite Oxide. **2010**, 1, 2633-2636		174
734	Layered graphene oxide nanostructures with sandwiched conducting polymers as supercapacitor electrodes. **2010**, 26, 17624-8		361
733	Individual nanocomposite sheets of chemically reduced graphene oxide and poly(N-vinyl pyrrolidone): preparation and humidity sensing characteristics. **2010**, 20, 10824		70
732	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. **2011**, 3, 51-55		70
731	Supercapacitors: Electrode Materials Aspects. **2011**,		3
730	In Situ Reduction of Graphene Oxide in Polymers. **2011**, 44, 9821-9829		87
729	Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. **2011**, 39, 963-971		18
728	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. **2011**, 435-464		1

727	Twist-boat conformation in graphene oxides. **2011**, 3, 192-5		36
726	Carbon-Based Materials: Growth, Properties, MEMS/NEMS Technologies, and MEM/NEM Switches. **2011**, 36, 66-101		48
725	Chemically modified graphene: flame retardant or fuel for combustion?. **2011**, 21, 3277-3279		63
724	A green approach to the synthesis of reduced graphene oxide nanosheets under UV irradiation. **2011**, 22, 215601		196
723	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. **2011**, 21, 10907		236
722	Minimizing graphene defects enhances titania nanocomposite-based photocatalytic reduction of CO2 for improved solar fuel production. **2011**, 11, 2865-70		499
721	Achieving high specific charge capacitances in Fe3O4/reduced graphene oxide nanocomposites. **2011**, 21, 3422		378
720	Effect of Oxygen Content on Structures of Graphite Oxides. **2011**, 50, 6132-6137		99
719	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. **2011**, 21, 3365-3370		193
718	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. **2011**, 47, 10070-2		15
717	Sonochemical preparation of functionalized graphenes. *Journal of the American Chemical Society*, **2011**, 133, 9148-51	16.4	137
716	Photoreaction of Graphene Oxide Nanosheets in Water. **2011**, 115, 19280-19286		212
715	Nitrogen-doped graphene for high-performance ultracapacitors and the importance of nitrogen-doped sites at basal planes. **2011**, 11, 2472-7		1373
714	Wrapping bacteria by graphene nanosheets for isolation from environment, reactivation by sonication, and inactivation by near-infrared irradiation. **2011**, 115, 6279-88		454
713	Structural Breathing of Graphite Oxide Pressurized in Basic and Acidic Solutions.. **2011**, 2, 309-313		22
712	Nanofillers. **2011**, 1		
711	Wettability and switching of electrical conductivity in UV irradiated graphene oxide films. **2011**, 20, 871-874		17
710	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. **2011**, 21, 6800		139

709	Supercapacitors: Electrode Materials Aspects. **2011**,		2
708	One-step preparation of hierarchical superparamagnetic iron oxide/graphene composites via hydrothermal method. **2011**, 258, 1132-1138		99
707	Graphene oxide windows for in situ environmental cell photoelectron spectroscopy. **2011**, 6, 651-7		177
706	In situ preparation of functionalized graphene oxide/epoxy nanocomposites with effective reinforcements. **2011**, 21, 13290		325
705	Reversible electrical reduction and oxidation of graphene oxide. *ACS Nano*, **2011**, 5, 2475-82	16.7	143
704	Rapid preparation of noble metal nanocrystals via facile coreduction with graphene oxide and their enhanced catalytic properties. **2011**, 3, 3737-42		44
703	Layer-by-layer assembly and UV photoreduction of graphene-polyoxometalate composite films for electronics. *Journal of the American Chemical Society*, **2011**, 133, 9423-9	16.4	278
702	Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation. **2011**, 3, 4662-9		65
701	Evaluation Criteria for Reduced Graphene Oxide. **2011**, 115, 11327-11335		409
700	The graphite oxide photoreduction mechanism. **2011**, 45, 411-415		35
699	Oxidation of SO2 to SO3 catalyzed by graphene oxide foams. **2011**, 21, 13934		118
698	Bimetallic Pt-Au nanocatalysts electrochemically deposited on graphene and their electrocatalytic characteristics towards oxygen reduction and methanol oxidation. *Physical Chemistry Chemical Physics*, **2011**, 13, 4083-94	3.6	222
697	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. **2011**, 25, 4107-4143		18
696	Surface plasmon resonance-induced visible light photocatalytic reduction of graphene oxide: using Ag nanoparticles as a plasmonic photocatalyst. **2011**, 3, 2142-4		127
695	Graphene Oxide as a Two-dimensional Surfactant. **2011**, 1344, 1		2
694	Surfactant-free water-processable photoconductive all-carbon composite. *Journal of the American Chemical Society*, **2011**, 133, 4940-7	16.4	191
693	Assembly of chemically modified graphene: methods and applications. **2011**, 21, 3311-3323		231
692	El grafeno: entre serendipia, cinta adhesiva y emigrantes. **2011**, 22, 72-74		

691	Photoreduction of graphite oxide. **2011**, 45, 57-61		78
690	Aniline as a dispersing and stabilizing agent for reduced graphene oxide and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. **2011**, 363, 615-9		101
689	Flash ignition of Al nanoparticles: Mechanism and applications. **2011**, 158, 2544-2548		95
688	Direct electro-deposition of graphene from aqueous suspensions. *Physical Chemistry Chemical Physics*, **2011**, 13, 9187-93	3.6	172
687	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. **2011**, 3, 2849-53		92
686	Hydration of Graphite Oxide in Electrolyte and Non-Electrolyte Solutions. **2011**, 115, 24611-24614		19
685	Laser assisted photocatalytic reduction of metal ions by graphene oxide. **2011**, 21, 9608		89
684	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. **2011**, 21, 298-306		154
683	Synthesis, mechanical, and barrier properties of LDPE/graphene nanocomposites using vinyl triethoxysilane as a coupling agent. *Journal of Nanoparticle Research*, **2011**, 13, 869-878	2.3	73
682	Noncovalent wrapping of chemically modified graphene with π-conjugated disk-like molecules. **2011**, 289, 925-932		27
681	Thermal actuation of graphene oxide nanoribbon mats. **2011**, 505, 31-36		14
680	Graphite oxide film-modified electrode as an electrochemical sensor for acetaminophen. **2011**, 155, 220-225		54
679	Functionalization of graphene oxide towards thermo-sensitive nanocomposites via moderate in situ SET-LRP. **2011**, 49, 4747-4755		73
678	Reduction of graphene oxide by aniline with its concomitant oxidative polymerization. **2011**, 32, 684-8		129
677	Metal nitride/graphene nanohybrids: general synthesis and multifunctional titanium nitride/graphene electrocatalyst. **2011**, 23, 5445-50		159
676	Electrical assembly and reduction of graphene oxide in a single solution step for use in flexible sensors. **2011**, 23, 4626-30		81
675	Visible-light-induced dye degradation over copper-modified reduced graphene oxide. **2011**, 17, 2428-34		74
674	Pulsed laser assisted reduction of graphene oxide. *Carbon*, **2011**, 49, 2431-2436	10.4	166

673	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. *Carbon*, **2011**, 49, 3454-3462	10.4	91
672	Laser synthesis of Pt, Pd, CoO and Pd□CoO nanoparticle catalysts supported on graphene. **2011**, 510, 179-184		86
671	Graphene supercapacitor electrodes fabricated by inkjet printing and thermal reduction of graphene oxide. **2011**, 13, 355-358		330
670	Scalable nanoimprint patterning of thin graphitic oxide sheets and in situ reduction. **2011**, 29, 011023		6
669	Electrochemically tunable ultrafast optical response of graphene oxide. **2011**, 98, 141103		27
668	All-Carbon Composite for Photovoltaics. **2011**, 1344, 1		
667	Graphene Oxide: Theoretical Perspectives. **2012**, 69-84		6
666	Reduced Graphene Oxide Nanosheets Functionalized with Bile Salts as Support for Electrochemical Catalysts. **2012**, 535-537, 1467-1477		2
665	LIGHT INDUCED CHANGE IN CONDUCTIVITY OF GRAPHENE OXIDE FILMS PATTERNED BY METAL MASKS. **2012**, 05, 1250034		
664	X-ray diffraction characterization of polymer intercalated graphite oxide. **2012**, 27, 104-107		64
663	Enzymatic Synthesis of Polyaniline/Graphite Oxide Nanocomposites. **2012**, 1448, 19		1
662	Colorful Polymer Compositions with Dyed Graphene Oxide Nanosheets. **2012**, 2012, 1-5		9
661	Electrospun Nylon-Graphene Nanocomposites Synthesis and Microstructure. **2012**, 1453, 7		4
660	Green Photocatalytic Synthesis of Au Nanoparticles/Multi-walled Carbon Nanotubes Nanocomposites and their Application for Glucose Sensing. **2012**, 8, 930-933		
659	Covalent attachment of functionalized polyaniline nanofibers onto graphene oxide. **2012**, 27, 2644-2649		5
658	Graphenes in chemical sensors and biosensors. **2012**, 39, 87-113		170
657	Chapter 1:Graphene Functionalization: A Review. **2012**, 1-52		3
656	Bottom-up synthesis of large-scale graphene oxide nanosheets. **2012**, 22, 5676		193

655	Self-assembled reduced graphene oxide/carbon nanotube thin films as electrodes for supercapacitors. **2012**, 22, 3591		161
654	Supercritical fluid conversion of graphene oxides. **2012**, 61, 206-211		38
653	Photothermal-assisted fabrication of iron fluoride-graphene composite paper cathodes for high-energy lithium-ion batteries. **2012**, 48, 9909-11		76
652	Plasma-Assisted Reduction of Graphene Oxide at Low Temperature and Atmospheric Pressure for Flexible Conductor Applications. **2012**, 3, 772-7		109
651	Engineering radial deformations in single-walled carbon and boron nitride nanotubes using ultrathin nanomembranes. *ACS Nano*, **2012**, 6, 1814-22	16.7	15
650	Photothermally reduced graphene as high-power anodes for lithium-ion batteries. *ACS Nano*, **2012**, 6, 7867-78	16.7	275
649	Emerging methods for producing graphene oxide composites in coatings with multifunctional properties. **2012**, 22, 21355		8
648	One-pot photochemical synthesis of ultrathin Au nanocrystals on co-reduced graphene oxide and its application. **2012**, 383, 140-7		24
647	Synthesis and electrochemical performance of sandwich-like polyaniline/graphene composite nanosheets. **2012**, 48, 1406-1412		70
646	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H2O2, and glucose sensing. **2012**, 2, 538-545		250
645	Patterns of Solution-Processed Graphene Oxide Produced by a Transfer Printing Method. **2012**, 159, H605-H609		11
644	Graphene-based electrodes. **2012**, 24, 5979-6004		756
643	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon□Carbon Cross Coupling Reactions. **2012**, 2, 145-154		253
642	Graphene based catalysts. **2012**, 5, 8848		642
641	Graphene and Its Synthesis. **2012**, 415-438		5
640	Synthesis, Characterization, and Selected Properties of Graphene. **2012**, 1-47		14
639	Heterogeneous Catalysis by Metal Nanoparticles Supported on Graphene. **2012**, 303-338		
638	Patterning and electronic tuning of laser scribed graphene for flexible all-carbon devices. *ACS Nano* , **2012**, 6, 1395-403	16.7	291

637	Screen printed, transparent, and flexible electrodes based on graphene nanoplatelet pastes. **2012**,		3
636	Graphene unrolled from up-stacked carbon nanotubes. *Carbon*, **2012**, 50, 5421-5428	10.4	16
635	Synthesis of graphene nanosheetsviaoxalic acid-induced chemical reduction of exfoliated graphite oxide. **2012**, 2, 1168-1173		129
634	A glucose biosensor based on TiO2-Graphene composite. **2012**, 38, 184-8		165
633	Rapid and efficient synthesis of soluble graphene nanosheets using N-methyl-p-aminophenol sulfate as a reducing agent. **2012**, 23, 485604		8
632	Wet-spinning assembly of continuous, neat, and macroscopic graphene fibers. **2012**, 2, 613		233
631	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. **2012**, 41, 97-114		432
630	Green reduction of graphene oxide by aqueous phytoextracts. *Carbon*, **2012**, 50, 5331-5339	10.4	422
629	Reduced graphene oxide produced by rapid-heating reduction and its use in carbon-based field-effect transistors. **2012**, 112, 033701		4
628	Photoelectron spectroscopy studies of plasma-fluorinated epitaxial graphene. **2012**, 30, 03D102		24
627	Aerosol synthesis of cargo-filled graphene nanosacks. **2012**, 12, 1996-2002		166
626	Direct growth of monodisperse SnO2 nanorods on graphene as high capacity anode materials for lithium ion batteries. **2012**, 22, 975-979		192
625	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. **2012**, 8, 630-46		335
624	Thermoresponsive graphene oxide-PNIPAM nanocomposites with controllable grafting polymer chains via moderate in situ SET RP. **2012**, 50, 4451-4458		69
623	Biological and chemical sensors based on graphene materials. **2012**, 41, 2283-307		1384
622	Graphene-based composites. **2012**, 41, 666-86		3116
621	Macroscopic multifunctional graphene-based hydrogels and aerogels by a metal ion induced self-assembly process. *ACS Nano*, **2012**, 6, 2693-703	16.7	935
620	Chemical Approaches to Produce Graphene Oxide and Related Materials. **2012**, 205-234		5

619	Photochemical reduction of graphene oxide in colloidal solution. **2012**, 48, 2-13		29
618	Ultrasonication-assisted direct functionalization of graphene with macromolecules. **2012**, 2, 4713		53
617	Phase Transitions in Graphite Oxide Solvates at Temperatures Near Ambient. **2012**, 3, 812-7		47
616	Towards Rationally Designed Graphene-Based Materials and Devices. **2012**, 213, 1091-1100		19
615	A Photoresponsive Hybrid Nanomaterial Based on Graphene and Polyhedral Oligomeric Silsesquioxanes. **2012**, 2012, 5282-5287		17
614	Graphene oxide and its reduction: modeling and experimental progress. **2012**, 2, 2643		418
613	Towards solution processed all-carbon solar cells: a perspective. **2012**, 5, 7810		81
612	Surface decoration of graphene by grafting polymerization using graphene oxide as the initiator. **2012**, 22, 3982		62
611	A leavening strategy to prepare reduced graphene oxide foams. **2012**, 24, 4144-50		701
610	Tunable Photoluminescence from Graphene Oxide. **2012**, 124, 6766-6770		28
609	Tunable photoluminescence from graphene oxide. **2012**, 51, 6662-6		520
608	A green chemistry of graphene: photochemical reduction towards monolayer graphene sheets and the role of water adlayers. **2012**, 5, 642-6		51
607	Efficient reduction of graphene oxide catalyzed by copper. *Physical Chemistry Chemical Physics*, **2012**, 14, 3083-8	3.6	11
606	Hybrid films with graphene oxide and metal nanoparticles could now replace indium tin oxide. *ACS Nano*, **2012**, 6, 4565-72	16.7	41
605	The reduction of graphene oxide. *Carbon*, **2012**, 50, 3210-3228	10.4	3551
604	Increasing the antioxidant activity of green tea polyphenols in the presence of iron for the reduction of graphene oxide. *Carbon*, **2012**, 50, 3015-3025	10.4	194
603	An environment-friendly route to synthesize reduced graphene oxide as a supercapacitor electrode material. **2012**, 69, 364-370		70
602	Energetic graphene oxide: Challenges and opportunities. **2012**, 7, 137-152		235

601	Chemical functionalization of graphene and its applications. **2012**, 57, 1061-1105	1351
600	Photoreduction of graphite oxide nanosheets with vacuum ultraviolet radiation. **2012**, 46, 117-121	21
599	Photoreduction of graphite oxide at different temperatures. **2012**, 7, 156-163	15
598	Localized insulator-conductor transformation of graphene oxide thin films via focused laser beam irradiation. **2012**, 106, 523-531	27
597	A facile synthesis of graphene–metal (Pb, Zn, Cd, Mn) sulfide composites. **2012**, 47, 1026-1032	15
596	Preparation and characterization of graphene oxide/poly(vinyl alcohol) composite nanofibers via electrospinning. **2013**, 127, 3026-3032	98
595	Nanoparticles as macromolecules. **2013**, 51, 1195-1208	29
594	Post-fabrication, in situ laser reduction of graphene oxide devices. **2013**, 102, 093115	65
593	Reduction of graphene oxide through a green and metal-free approach using formic acid. **2013**, 37, 74-79	39
592	Solar light assisted green synthesis of palladium nanoparticle decorated nitrogen doped graphene for hydrogen storage application. **2013**, 1, 11192	58
591	Photochemical reduction of graphite oxide. **2013**, 8, 1-22	16
590	One pot synthesis of a highly water-dispersible hybrid glucose carbides and reduced graphene oxide material with superior electrical capacitance. **2013**, 48, 8277-8286	8
589	Electrochemical-reduction-assisted assembly of a polyoxometalate/graphene nanocomposite and its enhanced lithium-storage performance. **2013**, 19, 10895-902	79
588	3D Honeycomb-Like Structured Graphene and Its High Efficiency as a Counter-Electrode Catalyst for Dye-Sensitized Solar Cells. **2013**, 125, 9380-9384	67
587	Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. **2013**, 1, 12893	43
586	3D honeycomb-like structured graphene and its high efficiency as a counter-electrode catalyst for dye-sensitized solar cells. **2013**, 52, 9210-4	308
585	Photocatalytic reduction of GO/ZnO to achieve GNRs for optoelectronic applications. **2013**, 46, 385101	12
584	Synthesis of graphene based noble metal composites for glucose biosensor. **2013**, 106, 277-280	22

583	Graphene for energy solutions and its industrialization. **2013**, 5, 10108-26		71
582	Synthesis and Characterization of Reduced Graphene Oxide. **2013**, 678, 56-60		27
581	Revealing the ultrafast process behind the photoreduction of graphene oxide. **2013**, 4, 2560		100
580	Flash ignition of freestanding porous silicon films: effects of film thickness and porosity. **2013**, 13, 5528-33		33
579	Diels-Alder reactions of graphene: computational predictions of products and sites of reaction. *Journal of the American Chemical Society*, **2013**, 135, 17643-9	16.4	71
578	The structure characteristic and electrochemical performance of graphene/polyaniline composites. **2013**, 170, 57-62		20
577	Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. **2013**, 139, 064703		9
576	Direct observation of spatially heterogeneous single-layer graphene oxide reduction kinetics. **2013**, 13, 5777-84		37
575	Towards low temperature thermal exfoliation of graphite oxide for graphene production. *Carbon*, **2013**, 62, 11-24	10.4	108
574	Biocompatibility effects of biologically synthesized graphene in primary mouse embryonic fibroblast cells. **2013**, 8, 393		68
573	Humanin: a novel functional molecule for the green synthesis of graphene. **2013**, 111, 376-83		45
572	Preparation of reduced graphene oxide by infrared irradiation induced photothermal reduction. **2013**, 5, 9040-8		63
571	Photoelectrochemical Properties of Graphene and Its Derivatives. **2013**, 3, 325-356		88
570	Hydrogen-Terminated Graphene by Laser Vaporization-Controlled Condensation of Graphite Oxide. Observation of Hydrogen-Capped Carbon Chains CnH□CnH+, and CnH2+ (n = 2□0) in the Gas Phase. **2013**, 117, 9485-9495		8
569	Humidity-dependant compression properties of graphene oxide foams prepared by freeze-drying technique. **2013**, 8, 66-67		8
568	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. **2013**, 222, 52-58		158
567	Excimer laser reduction and patterning of graphite oxide. *Carbon*, **2013**, 53, 81-89	10.4	85
566	Flexible Organic Photovoltaic Cells with In Situ Nonthermal Photoreduction of Spin-Coated Graphene Oxide Electrodes. **2013**, 23, 2742-2749		148

565	Antibacterial activity of dithiothreitol reduced graphene oxide. **2013**, 19, 1280-1288		102
564	Fabrication of flexible, all-reduced graphene oxide non-volatile memory devices. **2013**, 25, 233-8		186
563	Biocompatibility of microbially reduced graphene oxide in primary mouse embryonic fibroblast cells. **2013**, 105, 58-66		62
562	Graphene-related nanomaterials: tuning properties by functionalization. **2013**, 5, 4541-83		524
561	A functional graphene oxide-ionic liquid composites-gold nanoparticle sensing platform for ultrasensitive electrochemical detection of Hg2+. **2013**, 138, 1091-7		118
560	Reduction of graphite oxide to graphene with laser irradiation. *Carbon*, **2013**, 52, 574-582	10.4	122
559	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. **2013**, 5, 52-71		392
558	Inkjet printed acrylic formulations based on UV-reduced graphene oxide nanocomposites. **2013**, 48, 1249-125565		
557	Scalable fabrication of high-power graphene micro-supercapacitors for flexible and on-chip energy storage. **2013**, 4, 1475		1376
556	Nanoscale assembly into extended and continuous structures and hybrid materials. **2013**, 5, e43-e43		18
555	Optical ignition of nanoenergetic materials: The role of single-walled carbon nanotubes as potential optical igniters. **2013**, 160, 830-834		23
554	Improvement of photoluminescence of graphene quantum dots with a biocompatible photochemical reduction pathway and its bioimaging application. **2013**, 5, 1174-9		202
553	Graphene: promises, facts, opportunities, and challenges in nanomedicine. **2013**, 113, 3407-24		563
552	The mechanism of the reaction of graphite oxide to reduced graphene oxide under ultraviolet irradiation. *Carbon*, **2013**, 54, 412-418	10.4	56
551	Facile synthesis of graphene oxide hybrids bridged by copper ions for increased conductivity. **2013**, 1, 3084		44
550	Material processing of chemically modified graphene: some challenges and solutions. **2013**, 46, 2225-34		141
549	Functional Polymer Brushes on Hydrogenated Graphene. **2013**, 25, 466-470		32
548	Influence of synthesis conditions on properties of green-reduced graphene oxide. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	28

547	Graphene: safe or toxic? The two faces of the medal. **2013**, 52, 4986-97		446
546	Highly selective gas sensor arrays based on thermally reduced graphene oxide. **2013**, 5, 5426-34		219
545	Visible light-induced photocatalytic reduction of graphene oxide by tungsten oxide thin films. **2013**, 276, 628-634		26
544	Carbon nanotube-templated polyaniline nanofibers: synthesis, flash welding and ultrafiltration membranes. **2013**, 5, 3856-62		53
543	Chemical Structure of Oxidized Multilayer Epitaxial Graphene: A Density Functional Theory Study. **2013**, 117, 6267-6274		16
542	A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. **2013**, 24, 215604		26
541	Graphen: sicher oder toxisch?. **2013**, 125, 5086-5098		14
540	Highly sensitive and selective gas sensor using hydrophilic and hydrophobic graphenes. **2013**, 3, 1868		150
539	Selective and sensitive determination of uric acid in the presence of ascorbic acid and dopamine by PDDA functionalized graphene/graphite composite electrode. *Talanta*, **2013**, 112, 31-6	6.2	53
538	Ultrafast spectral migration of photoluminescence in graphene oxide. **2013**, 13, 344-9		56
537	Photoreduction processes of graphene oxide and related applications. **2013**, 21, 290-297		42
536	Photosynthesis of Multiple Valence Silver Nanoparticles on Reduced Graphene Oxide Sheets With Enhanced Antibacterial Activity. **2013**, 43, 440-445		5
535	Photoinduced Electron Transfer Between Pyridine Coated Cadmium Selenide Quantum Dots and Single Sheet Graphene. **2013**, 23, 5199-5211		54
534	25th anniversary article: The evolution of electronic skin (e-skin): a brief history, design considerations, and recent progress. **2013**, 25, 5997-6038		1622
533	Preparing three-dimensional graphene architectures: Review of recent developments. **2013**, 22, 098105		42
532	Reducing minimum flash ignition energy of Al microparticles by addition of WO3 nanoparticles. **2013**, 102, 043108		15
531	In situ Synthesis of Poly(methyl methacrylate)/Graphene Oxide Nanocomposites Using Thermal-initiated and Graphene Oxide-initiated Polymerization. **2013**, 50, 720-727		19
530	Photochemical doping of graphene oxide with nitrogen for photoluminescence enhancement. **2013**, 103, 123108		25

529	One-Step Synthesis of Pt-Nanoparticles-Laden Graphene Crumples by Aerosol Spray Pyrolysis and Evaluation of Their Electrocatalytic Activity. **2013**, 47, 93-98		43
528	Study of simultaneous reduction and nitrogen doping of graphene oxide Langmuir-Blodgett monolayer sheets by ammonia plasma treatment. **2013**, 24, 355704		38
527	Graphite Oxide. **2013**, 571-604		
526	Characterization of X-ray irradiated graphene oxide coatings using X-ray diffraction, X-ray photoelectron spectroscopy, and atomic force microscopy. **2013**, 28, 68-71		50
525	Aerosol Processing of Graphene and Its Application to Oil Absorbent and Glucose Biosensor. **2014**, 31, 111-125		9
524	Ginkgo biloba: a natural reducing agent for the synthesis of cytocompatible graphene. **2014**, 9, 363-77		66
523	Polarised infrared microspectroscopy of edge-oriented graphene oxide papers. **2014**, 75, 178-183		16
522	Carbon Nanomaterial-Based Composites in Wastewater Purification. **2014**, 04, 1441006		24
521	Holographic patterning of graphene-oxide films by light-driven reduction. **2014**, 39, 4263-6		15
520	Tunable optical properties of graphene oxide by tailoring the oxygen functionalities using infrared irradiation. **2014**, 25, 495704		55
519	An electrochemical sensor based on polyelectrolyte-functionalized graphene for detection of 4-nitrophenol. *Journal of Electroanalytical Chemistry*, **2014**, 734, 1-6	4.1	39
518	Coffee-Ring Structure from Dried Graphene Derivative Solutions: A Facile One-Step Fabrication Route for All Graphene-Based Transistors. **2014**, 118, 27081-27090		38
517	Simultaneous Laser-Induced Reduction and Nitrogen Doping of Graphene Oxide in Titanium Oxide/Graphene Oxide Composites. **2014**, 97, 2718-2724		20
516	Rapid sintering of TiO2 photoelectrodes using intense pulsed white light for flexible dye-sensitized solar cells. **2014**, 104, 143902		21
515	Enhanced green fluorescent protein-mediated synthesis of biocompatible graphene. **2014**, 12, 41		53
514	2. Synthesis, characterisation and properties of graphene. **2014**,		
513	Accelerated differentiation of neural stem cells into neurons on ginseng-reduced graphene oxide sheets. *Carbon*, **2014**, 66, 395-406	10.4	187
512	Laser-Assisted Reduction of Graphene Oxide for Flexible, Large-Area Optoelectronics. **2014**, 20, 106-115		48

511	Synthesis and characterization of graphene and carbon nanotubes: A review on the past and recent developments. **2014**, 20, 1171-1185		248
510	Supercapacitors based on modified graphene electrodes with poly(ionic liquid). **2014**, 256, 264-273		65
509	Structural diversity of bulky graphene materials. **2014**, 10, 2200-14		39
508	Conducting polymer and reduced graphene oxide LangmuirBlodgett films: a hybrid nanostructure for high performance electrode applications. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 1063-1071	2.1	20
507	One-step reduction and PEGylation of graphene oxide for photothermally controlled drug delivery. **2014**, 35, 4986-95		150
506	Dye-sensitized solar cells with reduced graphene oxide as the counter electrode prepared by a green photothermal reduction process. **2014**, 15, 1175-81		53
505	One-step co-electrodeposition of graphene oxide doped poly(hydroxymethylated-3,4-ethylenedioxythiophene) film and its electrochemical studies of indole-3-acetic acid. **2014**, 25, 511-516		17
504	X-ray absorption spectroscopy study on the thermal and hydrazine reduction of graphene oxide. **2014**, 196, 89-93		18
503	Pulsed laser irradiation for environment friendly reduction of graphene oxide suspensions. **2014**, 301, 183-188		58
502	Scale-up and purification of graphite oxide as intermediate for functionalized graphene. *Carbon*, **2014**, 75, 432-442	10.4	48
501	Titanium oxide nanosheets: graphene analogues with versatile functionalities. **2014**, 114, 9455-86		482
500	Graphene-based sensors for detection of heavy metals in water: a review. **2014**, 406, 3957-75		134
499	Pre-lithiated graphene nanosheets as negative electrode materials for Li-ion capacitors with high power and energy density. **2014**, 264, 108-113		130
498	Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. **2014**, 193, 110-116		23
497	An Introduction to Graphene. **2014**, 1-20		11
496	Chemical Functionalization of Graphene for Biomedical Applications. **2014**, 95-138		8
495	Graphene materials and their use in dye-sensitized solar cells. **2014**, 114, 6323-48		331
494	Graphene. **2014**, 1-32		2

493	Direct observation of single layer graphene oxide reduction through spatially resolved, single sheet absorption/emission microscopy. **2014**, 14, 3172-9		30
492	Carbon nanomaterial produced by microwave exfoliation of graphite oxide: new insights. **2014**, 4, 587-592		52
491	Supramolecular Hydrogel of Chitosan in the Presence of Graphene Oxide Nanosheets as 2D Cross-Linkers. **2014**, 2, 296-300		98
490	Reduced Graphene Oxide Thin Films as Ultrabarriers for Organic Electronics. **2014**, 4, 1300986		49
489	Photoreduction of Graphene Oxides: Methods, Properties, and Applications. **2014**, 2, 10-28		191
488	Waveband-dependent photochemical processing of graphene oxide in fabricating reduced graphene oxide film and graphene oxide□Ag nanoparticles film. **2014**, 4, 2404-2408		20
487	An easy one-step electrosynthesis of graphene/polyaniline composites and electrochemical capacitor. *Carbon*, **2014**, 67, 662-672	10.4	68
486	Mask-free and programmable patterning of graphene by ultrafast laser direct writing. **2014**, 430, 13-17		31
485	Electrochemical performance of the graphene/Y2O3/LiMn2O4 hybrid as cathode for lithium-ion battery. **2014**, 584, 454-460		35
484	Role of thickness and intercalated water in the facile reduction of graphene oxide employing camera flash. **2014**, 25, 075702		10
483	Colorimetric detection of Ag ions with graphene oxide in dimethylformamide. **2014**, 38, 503-506		9
482	Conjugated polymer nanoparticles for photoacoustic vascular imaging. **2014**, 5, 2854-2862		86
481	Iodide-mediated room temperature reduction of graphene oxide: a rapid chemical route for the synthesis of a bifunctional electrocatalyst. **2014**, 2, 1332-1340		118
480	Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers □Graphene oxide tethered with magnetic Fe3O4 nanoparticles. *Chemical Engineering Journal*, **2014**, 237, 462-468	14.7	55
479	Plasmon-assisted and visible-light induced graphene oxide reduction and efficient fluorescence quenching. **2014**, 50, 13481-4		10
478	Direct printing and reduction of graphite oxide for flexible supercapacitors. **2014**, 105, 053902		39
477	Reduced graphene oxide derived from used cell graphite and its green fabrication as an eco-friendly supercapacitor. **2014**, 4, 60039-60051		15
476	Porous conducting polymer and reduced graphene oxide nanocomposites for room temperature gas detection. **2014**, 4, 42546-42553		40

475	Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. **2014**, 50, 7103-6		31
474	Multi-stimuli responsive smart elastomeric hyperbranched polyurethane/reduced graphene oxide nanocomposites. **2014**, 2, 14867-14875		80
473	Macroscopic Graphene Structures: Preparation, Properties, and Applications. **2014**, 291-350		3
472	Split-second nanostructure control of a polymer:fullerene photoactive layer using intensely pulsed white light for highly efficient production of polymer solar cells. **2014**, 6, 1495-501		13
471	In situ polymerization deposition of porous conducting polymer on reduced graphene oxide for gas sensor. **2014**, 6, 13807-14		116
470	Graphene/silicon nanocomposite anode with enhanced electrochemical stability for lithium-ion battery applications. **2014**, 269, 873-882		93
469	Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying d-Spacing. **2014**, 26, 2983-2990		510
468	Electrospun TiO2 nanofiber/graphite oxide modified electrode for electrochemical detection of l-DOPA in human cerebrospinal fluid. **2014**, 204, 393-401		50
467	Green reduction of graphene oxide by Hibiscus sabdariffa L. to fabricate flexible graphene electrode. *Carbon*, **2014**, 80, 725-733	10.4	61
466	Processing of nanostructured polymers and advanced polymeric based nanocomposites. **2014**, 85, 1-46		165
465	Achieving direct electrochemistry of glucose oxidase by one step electrochemical reduction of graphene oxide and its use in glucose sensing. **2014**, 45, 103-8		20
464	Tunable properties of graphene oxide reduced by laser irradiation. **2014**, 117, 19-23		30
463	Real-time monitoring of graphene oxide reduction in acrylic printable composite inks. **2014**, 117, 1289-1293		7
462	Study on the PMMA/GO nanocomposites with good thermal stability prepared by in situ Pickering emulsion polymerization. **2014**, 117, 755-763		27
461	Reduced graphene oxide/Ni(1-x)Co(x)Al-layered double hydroxide composites: preparation and high supercapacitor performance. **2014**, 43, 11667-75		106
460	Surface Plasmon-Mediated Photothermal Chemistry. **2014**, 118, 20735-20749		154
459	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. **2014**, 118, 13493-13502		14
458	Graphene Oxide: Some New Insights into an Old Material. **2014**, 341-374		6

457	Electrochemistry of graphene and related materials. **2014**, 114, 7150-88		802
456	Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. *Carbon*, **2014**, 69, 327-335	10.4	42
455	Organic solvents-enabled hydrothermal preparation of graphene hydrogels. **2014**, 129, 24-27		1
454	Effect of combined chemical and electrochemical reduction of graphene oxide on morphology and structure of electrodeposited ZnO. **2014**, 40, 10351-10357		24
453	Enhanced laser scribed flexible graphene-based micro-supercapacitor performance with reduction of carbon nanotubes diameter. *Carbon*, **2014**, 75, 236-243	10.4	116
452	Preparation of pillared carbon thin films from the reduction of silylated graphite oxide by UV light irradiation and their size selective electrical response to various molecules. *Carbon*, **2014**, 75, 271-276	10.4	5
451	Recent advances in upscalable wet methods and ink formulations for printed electronics. **2014**, 2, 6436-6453		146
450	A powerful tool for graphene functionalization: Benzophenone mediated UV-grafting. *Carbon*, **2014**, 77, 226-235	10.4	36
449	Thermal exfoliation of fluorinated graphite. *Carbon*, **2014**, 77, 688-704	10.4	38
448	Chemically derived graphene. **2014**, 50-80		6
447	Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. *Carbon*, **2014**, 77, 857-867	10.4	19
446	An in vitro evaluation of graphene oxide reduced by Ganoderma spp. in human breast cancer cells (MDA-MB-231). **2014**, 9, 1783-97		57
445	Photoconductivity from photochemical N-doped graphene oxide thin films. **2015**, 19, S11-S14		1
444	Platinized Graphene/ceramics Nano-sandwiched Architectures and Electrodes with Outstanding Performance for PEM Fuel Cells. **2015**, 5, 16246		11
443	Conversion of 4-N,N-dimethylamino-4'-N'-methyl-stilbazolium tosylate (DAST) from a Simple Optical Material to a Versatile Optoelectronic Material. **2015**, 5, 12269		13
442	UV-Enhanced Sacrificial Layer Stabilised Graphene Oxide Hollow Fibre Membranes for Nanofiltration. **2015**, 5, 15799		44
441	Visible-light Induced Reduction of Graphene Oxide Using Plasmonic Nanoparticle. **2015**,		1
440	Nanoscale Sensor Technologies for Disease Detection via Volatolomics. **2015**, 11, 6142-64		128

439	Rapid and Versatile Photonic Annealing of Graphene Inks for Flexible Printed Electronics. **2015**, 27, 6683-8		220
438	Flash reduction of inkjet printed graphene oxide on flexible substrates for electronic applications. **2015**,		
437	Technical Program. **2015**,		
436	Reduction of graphene oxide by resveratrol: a novel and simple biological method for the synthesis of an effective anticancer nanotherapeutic molecule. **2015**, 10, 2951-69		105
435	Visible Light-Assisted Photoreduction of Graphene Oxide Using CdS Nanoparticles and Gas Sensing Properties. *Journal of Nanomaterials*, **2015**, 2015, 1-11	3.2	19
434	Polymer composites prepared by low-temperature post-irradiation polymerization of C2F4 in the presence of graphene-like material: synthesis and characterization. **2015**, 5, 9865-9874		16
433	Graphene-based nanomaterials for versatile imaging studies. **2015**, 44, 4835-52		154
432	Engineering a Water-Dispersible, Conducting, Photoreduced Graphene Oxide. **2015**, 119, 6356-6362		15
431	Graphene Oxide. **2015**,		61
430	Spectroscopy and Microscopy of Graphene Oxide and Reduced Graphene Oxide. **2015**, 29-60		4
429	The Chemistry of Graphene Oxide. **2015**, 61-95		162
428	Liquid crystalline polymer nanocomposites reinforced with in-situ reduced graphene oxide. **2015**, 9, 709-720		16
427	Stability enhancement of organic photovoltaic devices utilizing partially reduced graphene oxide as the hole transport layer: nanoscale insight into structural/interfacial properties and aging effects. **2015**, 5, 106930-106940		15
426	Bi-axially oriented polystyrene/montmorillonite nanocomposite films. **2015**, 5, 58191-58198		19
425	Carbon nanostructures reduced from graphite oxide as electrode materials for supercapacitors. **2015**, 1, 1-9		4
424	A lithium-ion battery based on LiFePO4 and silicon/reduced graphene oxide nanocomposite. **2015**, 283, 145-151		9
423	Challenges and opportunities for graphene as transparent conductors in optoelectronics. **2015**, 10, 681-700		58
422	Electron-stimulated reduction of graphite oxide. **2015**, 102, 443-447		2

421	Study of benzophenone grafting on reduced graphene oxide by unconventional techniques. **2015**, 39, 2966-2972		7
420	Graphene modifications in polylactic acid nanocomposites: a review. **2015**, 72, 931-961		63
419	Effect of microstructure of graphene oxide fabricated through different self-assembly techniques on 1-butanol dehydration. *Journal of Membrane Science*, **2015**, 477, 93-100	9.6	204
418	Supercapacitors with graphene oxide separators and reduced graphite oxide electrodes. **2015**, 279, 722-730		46
417	Modification of electrode surface with covalently functionalized graphene oxide by l-tyrosine for determination of dopamine. *Journal of Electroanalytical Chemistry*, **2015**, 738, 203-208	4.1	19
416	Rapid production of a bulk of porous mesh reduced graphene oxide films using a naked flame. **2015**, 3, 2788-2791		23
415	2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet. **2015**, 25, 2428-2435		38
414	Graphene-based hybrid films for plasmonic sensing. **2015**, 7, 14561-76		37
413	Reduced graphene oxide synthesis by high energy ball milling. **2015**, 161, 123-129		27
412	Alternative methods and nature-based reagents for the reduction of graphene oxide: A review. *Carbon*, **2015**, 94, 224-242	10.4	161
411	Graphene/SnO2 nanocomposite-modified electrode for electrochemical detection of dopamine. **2015**, 5, 42-49		58
410	Non-Faradaic Energy Storage by Room Temperature Ionic Liquids in Nanoporous Electrodes. *ACS Nano*, **2015**, 9, 5999-6017	16.7	80
409	Glucosamine-Anchored Graphene Oxide Nanosheets: Fabrication, Ultraviolet Irradiation, and Electrochemical Properties. **2015**, 7, 14552-6		27
408	Photochemical Processes Involving Graphene Oxide. **2015**, 51, 1-29		8
407	Interface engineering of ionic liquid integrated graphene in poly(vinylidene fluoride) matrix yielding magnificent improvement in mechanical, electrical and dielectric properties. **2015**, 65, 154-167		54
406	Controlled crumpling of graphene oxide films for tunable optical transmittance. **2015**, 27, 3256-65		112
405	High-yield and environment-minded fabrication of nanoporous anodic aluminum oxide templates. **2015**, 5, 26872-26877		9
404	Ultraviolet-assisted reduction of BBL/graphene nanocomposite. **2015**, 23, 428-435		2

403	Hydrogen-rich water for green reduction of graphene oxide suspensions. **2015**, 40, 5553-5560		29
402	Environmentally benign and facile reduction of graphene oxide by flash light irradiation. **2015**, 26, 205601		28
401	Template free construction of a hollow Fe3O4 architecture embedded in an N-doped graphene matrix for lithium storage. **2015**, 44, 5735-45		29
400	High energy density Li-ion capacitor assembled with all graphene-based electrodes. *Carbon*, **2015**, 92, 106-118	10.4	136
399	A novel nanosilica/graphene oxide hybrid and its flame retarding epoxy resin with simultaneously improved mechanical, thermal conductivity, and dielectric properties. **2015**, 3, 9826-9836		165
398	How fast is the reaction of hydrated electrons with graphene oxide in aqueous dispersions?. **2015**, 7, 19432-7		10
397	Photochemical doping of graphene oxide thin film with nitrogen for photoconductivity enhancement. *Carbon*, **2015**, 94, 1037-1043	10.4	10
396	Graphene synthesis: a Review. **2015**, 33, 566-578		60
395	A novel template free synthetic strategy to graphene□ron oxide nanotube hybrid. **2015**, 5, 78648-78654		13
394	Fractal dendrite-based electrically conductive composites for laser-scribed flexible circuits. **2015**, 6, 8150		51
393	Reducing CO2 to dense nanoporous graphene by Mg/Zn for high power electrochemical capacitors. **2015**, 11, 600-610		78
392	Reaction-mediated structuring of three-dimensional honeycomb-structured graphene scaffold. **2015**, 142, 320-323		3
391	A tertiary amine in two competitive processes: reduction of graphene oxide vs. catalysis of atom transfer radical polymerization. **2015**, 5, 3370-3376		23
390	3D graphene nanomaterials for binder-free supercapacitors: scientific design for enhanced performance. **2015**, 7, 6957-90		148
389	Production of reduced graphene oxide via hydrothermal reduction in an aqueous sulphuric acid suspension and its electrochemical behaviour. **2015**, 19, 361-380		58
388	Graphene Oxide: Physics and Applications. *SpringerBriefs in Physics*, **2015**,	0.6	30
387	Evaporative assembly of graphene oxide for electric double-layer capacitor electrode application. **2015**, 270, 192-196		11
386	Voltage-Dependent Electronic Transport Properties of Reduced Graphene Oxide with Various Coverage Ratios. **2015**, 7, 42-50		4

385	2D and 3D graphene materials: Preparation and bioelectrochemical applications. **2015**, 65, 404-19		146
384	Moisture-responsive graphene paper prepared by self-controlled photoreduction. **2015**, 27, 332-8		176
383	NH3 assisted photoreduction and N-doping of graphene oxide for high performance electrode materials in supercapacitors. **2015**, 7, 2060-8		38
382	Photoreduction of graphene oxide enhanced by sacrificial agents. **2015**, 438, 291-295		9
381	3D label-free prostate specific antigen (PSA) immunosensor based on graphene-gold composites. **2015**, 63, 546-551		140
380	Bacteriorhodopsin as a superior substitute for hydrazine in chemical reduction of single-layer graphene oxide sheets. *Carbon*, **2015**, 81, 158-166	10.4	230
379	Thermoresponsive poly(N-isopropylacrylamide)/graphene/Au nanocomposite hydrogel for water treatment by a laser-assisted approach. **2015**, 11, 1165-70		44
378	Green Reduction of Graphene Oxide into Graphene by Cow Urine. **2016**, 1, 110-116		12
377	Making few-layer graphene photoluminescent by UV ozonation. *Optical Materials Express*, **2016**, 6, 3527	2.6	7
376	Reduced graphene oxide/SnO2 nanocomposite on PET surface: Synthesis, characterization and application as an electro-conductive and ultraviolet blocking textile. **2016**, 506, 507-513		29
375	Surface and Interface Engineering of Graphene Oxide Films by Controllable Photoreduction. **2016**, 16, 1244-55		21
374	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. **2016**, 28, 3305-12		67
373	A Facile Graphene Nanosheets-based Electrochemical Sensor for Sensitive Detection of Honokiol in Traditional Chinese Medicine. **2016**, 28, 508-515		5
372	Valence-band electronic structure evolution of graphene oxide upon thermal annealing for optoelectronics. **2016**, 213, 2380-2386		7
371	UV-assisted reduction of graphene oxide on Ni foam as high performance electrode for supercapacitors. *Carbon*, **2016**, 107, 917-924	10.4	22
370	Graphene and the related conductive inks for flexible electronics. **2016**, 4, 7193-7207		78
369	Localized Plasmon-Stimulated Nanochemistry of Graphene Oxide on a SERS Substrate. **2016**, 17, 873-8		2
368	Toward Rationally Designed Graphene-Based Materials and Devices. **2016**, 53-67		

367	Graphene-based nanomaterials for bioimaging. **2016**, 105, 242-254	237
366	Properties of Pristine Graphene Composites Arising from the Mechanism of Graphene-Stabilized Emulsion Formation. **2016**, 55, 6777-6782	20
365	Influence of reducing reagent combination in graphene oxide reduction. **2016**, 11, 215-220	2
364	Direct laser printing of graphene oxide for resistive chemosensors. **2016**, 82, 163-169	26
363	Review of functionalization, structure and properties of graphene/polymer composite fibers. **2016**, 87, 29-45	213
362	Single-Step Process toward Achieving Superhydrophobic Reduced Graphene Oxide. **2016**, 8, 10985-94	27
361	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. **2016**, 16, 3616-23	146
360	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. **2016**, 26, 276-285	112
359	Application of graphene in dye and quantum dots sensitized solar cell. **2016**, 137, 531-550	28
358	Graphene Oxide-Based Composite Materials. **2016**, 314-363	7
357	Preparation of vertically aligned carbon nanotube/polyaniline composite membranes and the flash welding effect on their supercapacitor properties. **2016**, 6, 98598-98605	9
356	in situformation of rGO quantum dots during GO reduction via interaction with citric acid in aqueous medium. **2016**, 3, 105601	10
355	Introduction for Nanomaterials and Nanocomposites: State of Art, New Challenges, and Opportunities. **2016**, 1-20	5
354	An ecofriendly graphene-based nanofluid for heat transfer applications. **2016**, 137, 555-566	58
353	Graphene-doped electrospun nanofiber membrane electrodes and proton exchange membrane fuel cell performance. **2016**, 327, 384-393	32
352	Challenges in Liquid-Phase Exfoliation, Processing, and Assembly of Pristine Graphene. **2016**, 28, 8796-8818	97
351	In Situ Transmission Electron Microscopy Observation of Sodiation–Desodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. **2016**, 28, 6528-6535	59
350	Silver Nanowire Embedded Colorless Polyimide Heater for Wearable Chemical Sensors: Improved Reversible Reaction Kinetics of Optically Reduced Graphene Oxide. **2016**, 12, 5826-5835	52

349	Recent Developments in Design and Fabrication of Graphene-Based Interdigital Micro-Supercapacitors for Miniaturized Energy Storage Devices. **2016**, 6, 1752-1765	16
348	Graphene and Graphene Sheets Based Nanocomposites. **2016**, 107-150	1
347	Reduction and structural evolution of graphene oxide sheets under hydrothermal treatment. **2016**, 380, 3128-3132	38
346	Electron-stimulated reduction of the surface of graphite oxide. **2016**, 42, 337-340	2
345	Nanomaterials for optical data storage. **2016**, 1,	159
344	A Facile Electrochemical Preparation of Reduced Graphene Oxide@Polydopamine Composite: A Novel Electrochemical Sensing Platform for Amperometric Detection of Chlorpromazine. **2016**, 6, 33599	37
343	Fabrication of nanohybrid polyetherimide/graphene oxide membranes: biofuel dehydration by pervaporation process. **2016**, 6, 103888-103894	6
342	Chapter 6 Graphene: A New Star Nanomaterial in Energy and Environment Applications. **2016**, 273-306	
341	Photo-induced reduction of graphene oxide coating on optical waveguide and consequent optical intermodulation. **2016**, 6, 23813	18
340	Flash-induced reduced graphene oxide as a Sn anode host for high performance sodium ion batteries. **2016**, 4, 18306-18313	39
339	The formation of carbonic and silicon dioxide structured films through the decomposition of molecules on the surface of ionic crystals under the action of IR femtosecond laser radiation. **2016**, 26, 066002	1
338	Stability and extreme ultraviolet photo-reduction of graphene during C-K edge NEXAFS characterization. **2016**, 296, 211-215	4
337	Effects of Vacancies, Nitrogen Atoms, and sp3 Bonds on Mechanical Properties of Graphene Using Molecular Dynamics Simulations. **2016**, 57-76	
336	Graphene oxide: strategies for synthesis, reduction and frontier applications. **2016**, 6, 64993-65011	297
335	High-temperature carbonization of humic acids and a composite of humic acids with graphene oxide. **2016**, 50, 43-50	4
334	Photochemical processes in graphene oxide films. **2016**, 50, 51-59	5
333	Synthesis of r-GO/TiO2 composites via the UV-assisted photocatalytic reduction of graphene oxide. **2016**, 380, 249-256	62
332	Supramolecular Assembly of Biobased Graphene Oxide Quantum Dots Controls the Morphology of and Induces Mineralization on Poly(Ɛ-caprolactone) Films. **2016**, 17, 256-61	25

331	Nano-size boron carbide intercalated graphene as high performance catalyst supports and electrodes for PEM fuel cells. *Carbon*, **2016**, 103, 449-456	10.4	28
330	Graphene-based materials for supercapacitor electrodes A review. **2016**, 2, 37-54		451
329	Graphene Nanocomposites with High Molecular Weight Poly(Ecaprolactone) Grafts: Controlled Synthesis and Accelerated Crystallization. **2016**, 5, 278-282		31
328	Photochemical reduction of graphene oxide (GO) by femtosecond laser irradiation. **2016**,		0
327	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. **2016**, 312, 216-222		25
326	Intense pulsed light induced crystallization of a liquid-crystalline polymer semiconductor for efficient production of flexible thin-film transistors. *Physical Chemistry Chemical Physics*, **2016**, 18, 4627-34	3.6	6
325	Tuning the reduction and conductivity of solution-processed graphene oxide by intense pulsed light. *Carbon*, **2016**, 102, 236-244	10.4	27
324	Studies on synthesis of reduced graphene oxide (RGO) via green route and its electrical property. **2016**, 79, 41-51		69
323	Photoflash and laser ignition of select high-nitrogen materials. **2016**, 167, 207-217		23
322	Graphene scaffolds in progressive nanotechnology/stem cell-based tissue engineering of the nervous system. **2016**, 4, 3169-3190		138
321	A high-voltage lithium-ion battery prepared using a Sn-decorated reduced graphene oxide anode and a LiNi0.5Mn1.5O4 cathode. **2016**, 22, 515-528		5
320	A Review on Composite Papers of Graphene Oxide, Carbon Nanotube, Polymer/GO, and Polymer/CNT: Processing Strategies, Properties, and Relevance. **2016**, 55, 559-581		27
319	Fast, scalable, and eco-friendly fabrication of an energy storage paper electrode. *Green Chemistry*, **2016**, 18, 1117-1124	10	54
318	Self-propagating solar light reduction of graphite oxide in water. **2017**, 391, 601-608		19
317	Optical properties of graphene oxide and reduced graphene oxide determined by spectroscopic ellipsometry. **2017**, 421, 778-782		65
316	Direct supramolecular interacted graphene oxide assembly on graphene as an active and defect-free functional platform. **2017**, 53, 1949-1952		4
315	Three-dimensional reduced graphene oxide/polyaniline nanocomposite film prepared by diffusion driven layer-by-layer assembly for high-performance supercapacitors. **2017**, 343, 60-66		119
314	Hybrid porous carbon materials derived from composite of humic acid and graphene oxide. **2017**, 245, 24-30		16

313	Anodic Materials for Lithium-ion Batteries: TiO2-rGO Composites for High Power Applications. **2017**, 230, 132-140		12
312	Photoluminescence-based real-time monitoring of graphene oxide photoreduction: Demonstrations and application to graphene oxide/titanium dioxide composites. **2017**, 188, 129-134		4
311	Fabrication of reduced graphene oxide micro patterns by vacuum-ultraviolet irradiation: From chemical and structural evolution to improving patterning precision by light collimation. *Carbon*, **2017**, 119, 82-90	10.4	14
310	Eco-friendly and rapid fabrication method for producing polyethylene terephthalate (PET) mask using intensive pulsed light. **2017**, 4, 155-159		9
309	Enhancing the electrical conductivity of vacuum-ultraviolet-reduced graphene oxide by multilayered stacking. **2017**, 35, 03D110		5
308	Instantaneous photoinitiated synthesis and rapid pulsed photothermal treatment of three-dimensional nanostructured TiO2 thin films through pulsed light irradiation. **2017**, 32, 1701-1709		13
307	3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. *Advanced Materials Interfaces*, **2017**, 4, 1600867	4.6	5
306	Carbon nano onion as versatile contender in polymer compositing and advance application. **2017**, 25, 109-123		23
305	Membrane-Based Environmental Cells for SEM in Liquids. 78-105		2
304	Tunable green graphene-silk biomaterials: Mechanism of protein-based nanocomposites. **2017**, 79, 728-739		36
303	Planar Perovskite Solar Cells: Local Structure and Stability Issues. **2017**, 1, 1700066		8
302	Electrosynthesis of a multilayer film stacked alternately by poly(3,4-ethylenedioxythiophene) and reduced graphene oxide from aqueous solution. **2017**, 81, 65-69		3
301	A versatile graphene foil. **2017**, 5, 14508-14513		16
300	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications. **2017**, 342, 34-79		174
299	Polyoxometalate-enabled photoreduction of graphene oxide to bioinspired nacre-like composite films for supercapacitor electrodes. **2017**, 121, 75-82		33
298	Scalable Fabrication of Photochemically Reduced Graphene-Based Monolithic Micro-Supercapacitors with Superior Energy and Power Densities. *ACS Nano*, **2017**, 11, 4283-4291	16.7	152
297	Studies of ultrasonication of exfoliated graphite. **2017**, 53, 261-267		1
296	Composite formed upon the ultrasonication of an aqueous suspension of graphite oxide/titanium dioxide. **2017**, 91, 189-194		

295	Light irradiation tuning of surface wettability, optical, and electric properties of graphene oxide thin films. **2017**, 28, 054003	15
294	Hybrid Copper-Silver-Graphene Nanoplatelet Conductive Inks on PDMS for Oxidation Resistance Under Intensive Pulsed Light. **2017**, 9, 37160-37165	21
293	Direct-write graphene resistors on aromatic polyimide for transparent heating glass. **2017**, 267, 327-333	22
292	Photoacoustic effect on the electrical and mechanical properties of polymer-infiltrated carbon nanotube fiber/graphene oxide composites. **2017**, 153, 136-144	15
291	Vacancy-Controlled Contact Friction in Graphene. **2017**, 27, 1702832	16
290	Advanced Photonic Processes for Photovoltaic and Energy Storage Systems. **2017**, 29, 1700335	43
289	Lignin as a green reductant and morphology directing agent in the fabrication of 3D graphene-based composites for high-performance supercapacitors. **2017**, 109, 410-419	42
288	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. **2017**, 129, 15883-15888	13
287	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. **2017**, 56, 15677-15682	60
286	Planar lighting from optimized graphite papers made of graphite oxide. **2017**, 110, 211903	1
285	Study on the performance of TEG with heat transfer enhancement using graphene-water nanofluid for a TEG cooling system. **2017**, 60, 1168-1174	17
284	Optical Band Gap Alteration of Graphene Oxide via Ozone Treatment. **2017**, 7, 6411	41
283	Direct laser writing of micro-supercapacitors on thick graphite oxide films and their electrochemical properties in different liquid inorganic electrolytes. **2017**, 507, 271-278	61
282	Effect of interfacial features on the mechanical and electrical properties of rGO/Al composites. **2017**, 52, 12001-12012	10
281	Intense pulsed light for split-second structural development of nanomaterials. **2017**, 5, 7142-7160	27
280	Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic. **2017**, 128, 155-163	30
279	Photoreduction of Graphene Oxide and Photochemical Synthesis of Graphene-Metal Nanoparticle Hybrids by Ketyl Radicals. **2017**, 9, 24887-24898	25
278	2D-printing ink based on ultrasound exfoliated graphite. **2017**, 43, 274-278	

277	Stretched graphene tented by polycaprolactone and polypyrrole net-bracket for neurotransmitter detection. **2017**, 396, 832-840		9
276	Laser reduced graphene for supercapacitor applications. **2017**, 337, 73-81		77
275	Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. **2017**, 29, 1602802		295
274	Synthesis and electrochemical properties of Fe3O4/MnO2/RGOs sandwich-like nano-superstructures. **2017**, 693, 373-380		10
273	Chemical surface modification of graphene oxide by femtosecond laser pulse irradiation in aqueous suspensions. **2017**, 52, 749-759		4
272	Synthesis of mesoporous reduced graphene oxide by Zn particles for electrodes of supercapacitor in ionic liquid electrolyte. **2017**, 45, 105-110		25
271	7 Graphene/Polymer Composite Materials: Processing, Properties and Applications. **2017**, 349-419		14
270	Laser emission from flash ignition of Zr/Al nanoparticles. *Optics Express*, **2017**, 25, A932-A939	3.3	5
269	Optical Fibre Sensors Using Graphene-Based Materials: A Review. **2017**, 17,		71
268	On the Response of Nascent Soot Nanostructure and Oxidative Reactivity to Photoflash Exposure. **2017**, 10, 961		14
267	Controlled Functionalization of Graphene Layers. **2017**,		1
266	Graphene devices based on laser scribing technology. **2018**, 57, 04FA01		7
265	Facile One-Pot Bottom-Up Synthesis of Graphene and Ni/Graphene Nanostructures and Their Excellent Adsorption Performances. **2018**, 13, 1850021		1
264	Laser-Reduced Graphene: Synthesis, Properties, and Applications. *Advanced Materials Technologies*, **2018**, 3, 1700315	6.8	63
263	Extending the Continuous Operating Lifetime of Perovskite Solar Cells with a Molybdenum Disulfide Hole Extraction Interlayer. **2018**, 8, 1702287		90
262	Recent advances in three-dimensional graphene based materials for catalysis applications. **2018**, 47, 2165-2216		326
261	Preparation of high-quality graphene using triggered microwave reduction under an air atmosphere. **2018**, 6, 1829-1835		24
260	Multidimensional Assemblies of Graphene. **2018**, 27-72		

259	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. **2018**, 30, 1704449		230
258	Recent Advances in Effective Reduction of Graphene Oxide for Highly Improved Performance Toward Electrochemical Energy Storage. **2018**, 1, 5-12		78
257	Palladium-ruthenium alloy nanoparticles dispersed on CoWO4-doped graphene for enhanced methanol electro-oxidation. **2018**, 43, 9677-9686		11
256	Determinative Surface-Wrinkling Microstructures on Polypyrrole Films by Laser Writing. **2018**, 34, 4793-4802		9
255	Electrochemical supramolecular recognition of hemin-carbon composites. **2018**, 698, 102-109		5
254	Multifunctional Graphene Hair Dye. **2018**, 4, 784-794		39
253	Fire Alarm Wallpaper Based on Fire-Resistant Hydroxyapatite Nanowire Inorganic Paper and Graphene Oxide Thermosensitive Sensor. *ACS Nano*, **2018**, 12, 3159-3171	16.7	97
252	A general synthetic strategy to monolayer graphene. **2018**, 11, 3088-3095		36
251	Probing the electron beam induced reduction of graphite oxide by in situ X-ray photoelectron spectroscopy/mass spectrometer. **2018**, 427, 1137-1143		3
250	Electrospun PAN□O composite nanofibers as water purification membranes. **2018**, 135, 45858		45
249	Fabrication and Engineering of Nanostructured Supercapacitor Electrodes Using Electromagnetic Field-Based Techniques. *Advanced Materials Technologies*, **2018**, 3, 1700168	6.8	4
248	Natural Honeycomb Flavone Chrysin (5,7-dihydroxyflavone)-Reduced Graphene Oxide Nanosheets Fabrication for Improved Bactericidal and Skin Regeneration. **2018**, 6, 349-363		13
247	Preparation of graphene oxide-humic acid composite-based ink for printing thin film electrodes for micro-supercapacitors. **2018**, 730, 88-95		22
246	Flexible graphene/carbon nanotube hybrid papers chemical-reduction-tailored by gallic acid for high-performance electrochemical capacitive energy storages. **2018**, 435, 699-707		14
245	Two-dimensional material functional devices enabled by direct laser fabrication. **2018**, 11, 2-22		21
244	Reductive nanometric patterning of graphene oxide paper using electron beam lithography. *Carbon* , **2018**, 129, 63-75	10.4	13
243	Geometric architecture design of ternary composites based on dispersive WO3 nanowires for enhanced visible-light-driven activity of refractory pollutant degradation. *Chemical Engineering Journal*, **2018**, 334, 2568-2578	14.7	22
242	Synthesis of reduced graphene oxide for high-performance supercapacitor. **2018**, 56, 778-785		14

241	. **2018**,		18
240	Detection of Neurotransmitters by Three-Dimensional Laser-Scribed Graphene Grass Electrodes. **2018**, 10, 42136-42145		32
239	YAP/TAZ mechano-transduction as the underlying mechanism of neuronal differentiation induced by reduced graphene oxide. **2018**, 13, 3091-3106		11
238	Non-thermal and low-destructive X-ray induced graphene oxide reduction. **2018**, 124, 175303		1
237	Graphene and CNT Based EMI Shielding Materials. **2018**, 241-261		1
236	Aptamer based biological sensors for virus-marker detection. **2018**,		
235	Preparation and Characterization of Chitosan/β-Glycerophosphate Thermal-Sensitive Hydrogel Reinforced by Graphene Oxide. **2018**, 6, 565		27
234	Rapid and efficient synthesis of reduced graphene oxide nano-sheets using CO ambient atmosphere as a reducing agent. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 19402-19412	2.1	7
233	Graphene and graphene oxide: Functionalization and nano-bio-catalytic system for enzyme immobilization and biotechnological perspective. **2018**, 120, 1430-1440		93
232	2D Materials for Gas Sensing Applications: A Review on Graphene Oxide, MoS_2, WS_2 and Phosphorene. **2018**, 18,		230
231	Robust and Flexible Micropatterned Electrodes and Micro-Supercapacitors in Graphene–Silk Biopapers. *Advanced Materials Interfaces*, **2018**, 5, 1801203	4.6	13
230	Graphene Oxide-Supported Transition Metal Catalysts for Di-Nitrogen Reduction. **2018**, 122, 25441-25446		20
229	Energetic Performance of Optically Activated Aluminum/Graphene Oxide Composites. *ACS Nano*, **2018**, 12, 11366-11375	16.7	51
228	Laser-Induced Reduction of Graphene Oxide by Intensity-Modulated Line Beam for Supercapacitor Applications. **2018**, 10, 39777-39784		35
227	Ultrathin Metal Crystals: Growth on Supported Graphene Surfaces and Applications. **2018**, 14, e1801529		5
226	Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. **2018**, 52, 355-359		2
225	Facilitated water-selective permeation via PEGylation of graphene oxide membrane. *Journal of Membrane Science*, **2018**, 567, 311-320	9.6	34
224	Hetero-structure arrays of NiCoO2 nanoflakes@nanowires on 3D graphene/nickel foam for high-performance supercapacitors. **2018**, 289, 193-203		33

223	Mechanical Properties of GO Nanostructures Prepared from Freeze-Drying Method. **2018**,		
222	In-situ sequential laser transfer and laser reduction of graphene oxide films. **2018**, 112, 183301		10
221	Free-standing, layered graphene monoliths for long-life supercapacitor. *Chemical Engineering Journal*, **2018**, 350, 386-394	14.7	48
220	Nanoassembly of water-soluble metalloporphyrin of ZnTCPP on RGO/AuNPs/CS nanocomposites for photoelectrochemical sensing of hydroquinone. *Journal of Electroanalytical Chemistry*, **2018**, 820, 123-131	4.1	10
219	Carboxyl Terminated Reduced Graphene Oxide (Crbxl-RGO) and Pt Nanoparticles Based Ultra-Sensitive and Selective Electrochemical Biosensor for Glutamate Detection. **2018**, 165, B296-B301		24
218	Graphene-Based Nanomaterials. **2018**, 79-103		
217	Substrate Engineered Interconnected Graphene Electrodes with Ultrahigh Energy and Power Densities for Energy Storage Applications. **2018**, 10, 21235-21245		9
216	Layered structure graphene oxide/methylcellulose composites with enhanced mechanical and gas barrier properties. **2018**, 6, 13203-13214		28
215	One-pot green synthesis of Ag nanoparticle-decorated reduced graphene oxide composites: effect of Ag/graphene oxide volume ratio and its demonstration as low-voltage on-chip photodetector. **2018**, 53, 11620-11632		9
214	Structure-property relationships of thermoset nanocomposites. **2018**, 231-276		4
213	Graphene-Based Nanomaterials in Bioimaging. **2018**, 247-287		14
212	Properties of a granulated nitrogen-doped graphene oxide aerogel. **2018**, 498, 236-243		9
211	Electrostatic self-assembly preparation of reduced graphene oxide-encapsulated alumina nanoparticles with enhanced mechanical properties of alumina nanocomposites. **2018**, 38, 5122-5133		14
210	Graphene a promising electrode material for supercapacitors A review. **2018**, 42, 4284-4300		79
209	Analysis of Deposition Methods for Lithium-Ion Battery Anodes Using Reduced Graphene Oxide Slurries on Copper Foil. **2018**, 140,		1
208	Horizontal Centripetal Plating in the Patterned Voids of Li/Graphene Composites for Stable Lithium-Metal Anodes. **2018**, 4, 2192-2200		90
207	Two-Dimensional Conductive and Redox-Active Nanostructures Synthesized by Crystal-Controlled Polymerization for Electrochemical Applications. **2018**, 1, 4218-4226		7
206	Simple and Fast Approach for Synthesis of Reduced Graphene Oxide MoS2 Hybrids for Room Temperature Gas Detection. **2018**, 65, 3943-3949		21

205	Recent Developments in Graphene/Polymer Nanocomposites for Application in Polymer Solar Cells. *Polymers*, **2018**, 10,	4.5	76
204	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. **2018**, 11, 2839-2845		58
203	Rapid photocatalytic reduction of graphene oxide indirectly activated by the domino effect of ethanol oxidation on a titanium dioxide film. **2018**, 218, 289-295		4
202	Strong Graphene 3D Assemblies with High Elastic Recovery and Hardness. **2018**, 30, e1707424		18
201	Tailoring the oxygen content of graphene oxide by IR laser irradiation. **2018**, 124, 1		9
200	detection of salicylic acid in sunflower seedlings under salt stress.. **2018**, 8, 23404-23410		9
199	Triethylenetetramine/hydroxyethyl cellulose-functionalized graphene oxide monoliths for the removal of copper and arsenate ions. **2018**, 19, 381-395		15
198	PdCu alloy nanoparticles supported on reduced graphene oxide for electrocatalytic oxidation of methanol. **2018**, 53, 15871-15881		19
197	Carbon-Based Photothermal Actuators. **2018**, 28, 1802235		179
196	Passive mode-locking in erbium-doped fibre laser based on BN-GO saturable absorber. **2018**, 65, 2339-2349		5
195	Efficient assembly of high-performance reduced graphene oxide/silver nanowire transparent conductive film based on in situ light-induced reduction technology. **2018**, 459, 732-740		19
194	Synergy between nanomaterials and volatile organic compounds for non-invasive medical evaluation. **2018**, 47, 4781-4859		131
193	Ambient Condition Production of High Quality Reduced Graphene Oxide. *Advanced Materials Interfaces*, **2018**, 5, 1800737	4.6	9
192	The Correlation Between Molecular Structure and Tribological Properties of Graphene Oxide with Different Oxidation Degree. **2019**, 67, 1		11
191	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. **2019**, 15, e1901529		15
190	Ultrahigh heating rate induced micro-explosive production of graphene for energy storage. **2019**, 442, 227224		11
189	A transparent and Pt-free all-carbon nanocomposite counter electrode catalyst for efficient dye sensitized solar cells. **2019**, 193, 568-575		31
188	Graphene-based wearable sensors. **2019**, 11, 18923-18945		50

187	The comparative analyses of reduced graphene oxide (RGO) prepared via green, mild and chemical approaches. **2019**, 1, 1		35
186	Eco-friendly preparation of electrically conductive chitosan - reduced graphene oxide flexible bionanocomposites for food packaging and biological applications. **2019**, 173, 53-60		54
185	Enhanced Photothermal Effect in Ultralow-Density Carbon Aerogels with Microporous Structures for Facile Optical Ignition Applications. **2019**, 11, 7250-7260		9
184	Photoresponsive Actuators Built from Carbon-Based Soft Materials. **2019**, 7, 1900069		55
183	Mechanical Properties of Films of Graphene Oxide Doped with Chitosan. **2019**, 93, 538-541		1
182	Application of lasers in the synthesis and processing of two-dimensional quantum materials. **2019**, 31, 031202		7
181	Laser Reduction of Zn-Infiltrated Multilayered Graphene Oxide as Electrode Materials for Supercapacitors. **2019**, 2, 3711-3717		10
180	High-power laser-patterning graphene oxide: A new approach to making arbitrarily-shaped self-aligned electrodes. *Carbon*, **2019**, 151, 148-155	10.4	9
179	Fabrication and electrochemical evaluation of micro-supercapacitors prepared by direct laser writing on free-standing graphite oxide paper. **2019**, 179, 676-684		63
178	Metal-organic frameworks (MOFs) and their composites as electrodes for lithium battery applications: Novel means for alternative energy storage. **2019**, 393, 48-78		123
177	Molecular Mechanisms of CO2 Adsorption in Diamine-Cross-Linked Graphene Oxide. **2019**, 31, 3729-3735		20
176	Preparation of ternary hierarchical silicon/reduced graphene oxide/carbon composites as anodes for lithium□on batteries. **2019**, 793, 433-445		9
175	Thermal Stability and Degradation Kinetic Studies of PVA/RGO Using the Model-fitting and Isoconversional (model-free) Methods. **2019**, 20, 472-480		3
174	Cuprous oxide anchored Reduced Graphene oxide ceramic nanocomposite using Tagetes erecta flower extract and evaluation of its antibacterial activity and cytotoxicity. **2019**, 45, 25020-25026		9
173	Structural Recovery of Highly Oxidized Single-Walled Carbon Nanotubes Fabricated by Kneading and Electrochemical Applications. **2019**, 31, 3468-3475		18
172	Highly potent radical scavenging-anti-oxidant activity of biologically reduced graphene oxide using Nettle extract as a green bio-genic amines-based reductants source instead of hazardous hydrazine hydrate. **2019**, 371, 609-624		36
171	Plasma Exfoliated Graphene: Preparation via Rapid, Mild Thermal Reduction of Graphene Oxide and Application in Lithium Batteries. *Materials*, **2019**, 12,	3.5	4
170	Functionalized-Graphene and Graphene Oxide: Fabrication and Application in Catalysis. **2019**, 661-727		3

169	Graphene-Based Inks for Printing of Planar Micro-Supercapacitors: A Review. *Materials*, **2019**, 12,	3.5	27
168	Recent Progress of Graphene-Based Photoelectrode Materials for Dye-Sensitized Solar Cells. **2019**, 2019, 1-16		18
167	Enhancing the Efficiency of Graphene Oxide Reduction in Low-Power Digital Video Disc Drives by a Simple Precursor Heat Treatment. **2019**, 11, 48162-48171		3
166	Use of palladium nanoparticles dispersed on GNS - modified with 10 wt%CoMoO4 as efficient bifunctional electrocatalysts. **2019**, 44, 31312-31322		1
165	Solution-processable method for producing high-quality reduced graphene oxide displaying self-catalytic healing *Carbon*, **2019**, 141, 774-781	10.4	13
164	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. *Carbon*, **2019**, 141, 83-91	10.4	40
163	Heteroatom-doped graphene and its application as a counter electrode in dye-sensitized solar cells. **2019**, 43, 1702-1734		15
162	Cycling profile of layered MgAlO/reduced graphene oxide composite for asymmetrical supercapacitor. **2019**, 539, 38-44		19
161	Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. *Journal of Porous Materials*, **2019**, 26, 1111-1119	2.4	11
160	Review of the Selected Carbon-Based Materials for Symmetric Supercapacitor Application. **2019**, 48, 717-744		29
159	Conductive cotton fabric through thermal reduction of graphene oxide enhanced by commercial antioxidants used in the plastics industry. **2019**, 26, 2191-2199		10
158	Graphene oxide-wrapped polyaniline nanorods for supercapacitor applications. **2019**, 40, E1716-E1724		14
157	Scalable modulation of reduced graphene oxide properties via regulating graphite oxide precursors. **2019**, 782, 17-27		6
156	Joule heating-induced sp2-restoration in graphene fibers. *Carbon*, **2019**, 142, 230-237	10.4	27
155	Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. *Materials Today*, **2019**, 24, 26-32	21.8	32
154	Dopamine-modified nanographite as reinforcing filler for epoxy nanocomposite. **2019**, 53, 1671-1679		4
153	Graphene-templated synthesis of palladium nanoplates as novel electrocatalyst for direct methanol fuel cell. **2019**, 466, 385-392		85
152	Functionalized sp2 carbon allotropes as fillers for rubber nanocomposites. **2020**, 43-92		

151	Understanding the processing-structure-performance relationship of graphene and its variants as anode material for Li-ion batteries: A critical review. *Carbon*, **2020**, 156, 130-165	10.4	24
150	Solution-based, flexible, and transparent patterned reduced graphene oxide electrodes for lab-on-chip applications. **2020**, 31, 075302		12
149	Review of photoreduction and synchronous patterning of graphene oxide toward advanced applications. **2020**, 55, 480-497		10
148	Cysteamine-crosslinked graphene oxide membrane with enhanced hydrogen separation property. *Journal of Membrane Science*, **2020**, 595, 117568	9.6	34
147	Folliculitis decalvans-like pustular plaques on the limbs sparing the scalp. **2020**, 61, 54-56		5
146	Free-standing N-Graphene as conductive matrix for Ni(OH)2 based supercapacitive electrodes. **2020**, 334, 135592		24
145	UV-Assisted Fabrication of Green Quality rGO with Wavelength-Dependant Properties. **2020**, 8, 1031-1042		9
144	Highly Loaded Mildly Edge-Oxidized Graphene Nanosheet Dispersions for Large-Scale Inkjet Printing of Electrochemical Sensors. **2020**, 7, 460-468		9
143	Micro-corrugated graphene sheet enabled high-performance all-solid-state film supercapacitor. *Carbon*, **2020**, 160, 156-163	10.4	18
142	Urea and cow urine-based green approach to fabricate graphene-based transparent conductive films with high conductivity and transparency. **2020**, 242, 122465		12
141	Synthesis of three-dimensional nitrogen/sulfur-co-doped graphene hydrogels at low temperature and atmospheric pressure for supercapacitor materials. **2020**, 26, 1407-1417		0
140	Photoactivated Graphene Oxide to Enhance Photocatalytic Reduction of CO. **2020**, 12, 3580-3591		49
139	. **2020**,		1
138	Microwave reduction of graphene oxide. *Carbon*, **2020**, 170, 277-293	10.4	33
137	Utilization of waste coir fibre architecture to synthesize porous graphene oxide and their derivatives: An efficient energy storage material. **2020**, 276, 124240		6
136	Graphene oxide and its chemical nature: Multi-stage interactions between the oxygen and graphene. **2020**, 21, 100763		13
135	Plastic three-dimensional nanocarbon-polyacrylic acid sponges with high volumetric capacitance for Li-ion capacitor. **2020**, 26, e00223		1
134	Spatio-temporal Analysis of the Electric Field-Induced Solid-State Reduction Dynamics of Graphene Oxide Thin Films for Controlled Band-Gap Modulation. **2020**, 124, 21874-21885		0

133	Low-Cost Graphene-Based Digital Microfluidic System. *Micromachines*, **2020**, 11,	3.3	1
132	A super-resilient and highly sensitive graphene oxide/cellulose-derived carbon aerogel. **2020**, 8, 18376-18384		21
131	The characteristic and performance of reduced graphene oxide by marine bacterium Pseudoalteromonas sp. CF10-13. **2020**, 46, 21699-21706		3
130	Preparation of Graphene/Mn3O4 by Flash Irradiating for High Voltage Aqueous Supercapacitors. **2020**, 49, 986-990		3
129	Copper nanocrystals anchored on an O-rich carbonized corn gel for nitrogen electroreduction to ammonia. **2020**, 7, 3555-3560		3
128	Recent Developments in Graphene and Graphene Oxide: Properties, Synthesis, and Modifications: A Review. **2020**, 5, 10200-10219		34
127	3D Graphene Materials: From Understanding to Design and Synthesis Control. **2020**, 120, 10336-10453		117
126	Electrospun Nanofibers for Water Purification. **2020**, 217-257		0
125	Reduced Graphene Oxide Improves Moisture and Thermal Stability of Perovskite Solar Cells. **2020**, 1, 100053		11
124	Antibacterial Action of Nanoparticle Loaded Nanocomposites Based on Graphene and Its Derivatives: A Mini-Review. **2020**, 21,		28
123	Graphene-based polymer nanocomposite membranes for pervaporation. **2020**, 135-152		
122	Light induced morphological reforms in thin film of advanced nano-materials for energy generation: A review. **2020**, 129, 106284		5
121	Influence of oxyfluorinated graphite on fluorinated ethylene–propylene composites as bipolar plates. *Carbon Letters*, **2020**, 30, 345-352	2.3	4
120	Preparation and properties of polybutylene-terephthalate/graphene oxide in situ flame-retardant material. **2020**, 137, 49214		7
119	Experimental Investigation on the Influence of Graphene Nanoplatelets Dispersion on the Thermal Conductivity of Sunflower Oil. **2020**, 19, 1950011		2
118	Low cost flexible pressure sensor using laser scribed GO/RGO periodic structure for electronic skin applications. **2020**, 140, 106470		4
117	Unusual Reduction of Graphene Oxide by Titanium Dioxide Electrons Produced by Ionizing Radiation: Reaction Products and Mechanism. **2020**, 124, 5425-5435		2
116	Carbon-Defect-Driven Electroless Deposition of Pt Atomic Clusters for Highly Efficient Hydrogen Evolution. *Journal of the American Chemical Society*, **2020**, 142, 5594-5601	16.4	87

115	Investigation on the role of different conductive polymers in supercapacitors based on a zinc sulfide/reduced graphene oxide/conductive polymer ternary composite electrode.. **2020**, 10, 3122-3129		21
114	Solution-Processed Transparent Electrodes for Emerging Thin-Film Solar Cells. **2020**, 120, 2049-2122		76
113	An intermittent microwave-exfoliated non-expansive graphite oxide process for highly-efficient production of high-quality graphene. **2020**, 565, 288-294		4
112	Synergistically Chemical and Thermal Coupling between Graphene Oxide and Graphene Fluoride for Enhancing Aluminum Combustion. **2020**, 12, 7451-7458		22
111	Fabrication of a Novel Electrochemical Sensor for Determination of Riboflavin in Different Drink Real Samples. **2020**, 56, 181-188		8
110	Cellulose Paper Composites for Flexible Electronics. **2020**, 171-191		2
109	Green and low-cost approach for graphene oxide reduction using natural plant extracts. **2020**, 30, 803-808		1
108	A Review on Intense Pulsed Light Sintering Technologies for Conductive Electrodes in Printed Electronics. **2021**, 8, 327-363		17
107	Strategies for reduction of graphene oxide □A comprehensive review. *Chemical Engineering Journal* , **2021**, 405, 127018	14.7	72
106	Tailoring of the physical and mechanical properties of biocompatible graphene oxide/gelatin composite nanolaminates via altering the crystal structure and morphology.		1
105	Efficient metal-free supercapacitor based on graphene oxide derived from waste rice. **2021**, 4, 100075		5
104	The Ultrafast and Eco-friendly Reduction of Graphene Oxide Using a UV□R Assisted Intense Pulsed Light and Its Application as Supercapacitor. 1		0
103	TECHNOLOGY AND APPLICATIONS OF GRAPHENE OXIDE MEMBRANES. **2021**, 28, 2140004		2
102	Plant extract assisted synthesis of reduced graphene oxide sheet and the photocatalytic performances on cationic and anionic dyes to decontaminate wastewater. **2021**, 12, 015008		2
101	Enhanced Optical and Electrical Properties of Graphene Oxide-Silver Nanoparticles Nanocomposite Film by Thermal Annealing in the Air. **2021**, 94, 402-409		2
100	Comparison of the Electrode Properties of Graphene Oxides Reduced Chemically, Thermally, or via Microwave Irradiation. **2021**, 57, 262-268		0
99	Effect of graphene oxide surface treatment on the interfacial adhesion and the tensile performance of flax epoxy composites. **2021**, 142, 106270		13
98	Combinational reduction of graphene oxide via coherent and incoherent light irradiation for flexible supercapacitors. **2021**, 113, 108237		5

97	Facile preparation of reduced graphene oxide, polypyrrole, carbon black, and polyvinyl alcohol nanocomposite by electrospinning: a low-cost and sustainable approach for supercapacitor application. **2021**, 27, 2659-2672		2
96	Photonic Flash Synthesis of Mo2C/Graphene Electrocatalyst for the Hydrogen Evolution Reaction. **2021**, 11, 5865-5872		15
95	Graphene Oxide as a Pb(II) Separation Medium: Has Part of the Story Been Overlooked?. **2021**, 1, 766-776		2
94	Quenching of graphene suspension photoluminescence with saturated hydrocarbons. **2021**, 42, 100431		2
93	Three-dimensional reduced graphene oxide/montmorillonite nanosheet aerogels as electrode material for supercapacitor application. **2021**, 206, 106022		9
92	Emerging polyimide and graphene derived nanocomposite foam: research and technical tendencies. **2021**, 58, 643-658		2
91	Laser Synthesized Graphene and Its Applications. **2021**, 11, 6304		5
90	Effects of interactions with metal ions on the thermal reduction of graphene oxide. **2021**, 154, 110090		1
89	Applications of GO/OA-POSS Layer-by-Layer self-assembly nanocoating on flame retardancy and smoke suppression of flexible polyurethane foam. **2021**, 32, 4516		3
88	Tuning the Surface Wettability of Cyclic Olefin Copolymer by Plasma Treatment and Graphene Oxide Deposition and Reduction. *Polymers*, **2021**, 13,	4.5	3
87	Modelling of GO/PPy/CB and rGO/PPy/CB nanocomposite supercapacitors using an electrical equivalent circuit. **2021**, 27, 4531-4547		0
86	Status and Prospects of Laser-Induced Graphene for Battery Applications. **2021**, 9, 2100454		2
85	RGO@Cu2O@Cu Ternary Nanocomposite for High-Performance Non-Enzymatic Glucose Detection. **2021**, 168, 087503		2
84	Extrusion-based 3D-Printed Supercapacitors: Recent Progress and Challenges.		1
83	Carbon nanomaterials treated by combination of oxidation and flash for highly efficient solar water evaporation. *Chemosphere*, **2021**, 277, 130248	8.4	9
82	Flashlight-Induced Strong Self-Adhesive Surface on a Nanowire-Impregnated Transparent Conductive Film. **2021**, 13, 40062-40069		1
81	Performance enhancement of graphene/GO/rGO based supercapacitors: A comparative review. **2021**, 28, 102685		4
80	Development of Graphene-Based Polymeric Nanocomposites: A Brief Overview. *Polymers*, **2021**, 13,	4.5	5

79	Shape-Memory and Anisotropic Carbon Aerogel from Biomass and Graphene Oxide. *Molecules*, **2021**, 26,	4.8	2
78	Flashlight-material interaction for wearable and flexible electronics. *Materials Today*, **2021**, 51, 525-525	21.8	3
77	Chiral separation of Ecyclodextrin modified graphene oxide membranes with a complete enantioseparation performance. *Journal of Membrane Science*, **2021**, 634, 119350	9.6	10
76	A Facile and Scalable Method of Fabrication of Large-Area Ultrathin Graphene Oxide Nanofiltration Membrane. *ACS Nano*, **2021**, 15, 15294-15305	16.7	11
75	Self-powered and plant-wearable hydrogel as LED power supply and sensor for promoting and monitoring plant growth in smart farming. *Chemical Engineering Journal*, **2021**, 422, 129499	14.7	13
74	Study on the structure of reduced graphene oxide prepared by different reduction methods. *Carbon Letters*, 1	2.3	0
73	Synergistic poly(lactic acid) photoreforming and H generation over ternary NiCoP/reduced graphene oxide/g-CN composite. *Chemosphere*, **2022**, 286, 131905	8.4	1
72	Characteristics of Graphene/Reduced Graphene Oxide. *Springer Series in Materials Science*, **2020**, 155-177	0.9	24
71	Fabrication and Reduction. *SpringerBriefs in Physics*, **2015**, 1-13	0.6	2
70	Graphene Oxide: Synthesis and Characterization. *Advanced Structured Materials*, **2017**, 1-28	0.6	2
69	A novel label-free solid-state electrochemiluminescence sensor based on the resonance energy transfer from Ru(bpy) to GO for DNA hybridization detection. *Talanta*, **2020**, 218, 121126	6.2	13
68	A Review on Tailoring PEDOT:PSS Layer for Improved Performance of Perovskite Solar Cells. *Proceedings of the Nature Research Society*, 2,	0	46
67	Graphene-oxide/TiO nanocomposite films with electron-donors for multicolor holography. *Optics Express*, **2019**, 27, 1740-1749	3.3	2
66	Vortex beam generation from reduced graphene oxide(rGO)-polymer. *Optical Materials Express*, **2019**, 9, 4497	2.6	2
65	Comprehensive Review on Graphene Oxide for Use in Drug Delivery System. *Current Medicinal Chemistry*, **2020**, 27, 3665-3685	4.3	34
64	Bio-reduction of Graphene Oxide: Catalytic Applications of (Reduced) GO in Organic Synthesis. *Current Organic Synthesis*, **2020**, 17, 164-191	1.9	5
63	Progress in Preparation of Graphene. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2011**, 26, 561-570	1	14
62	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. **2011**, 3, 51		1

61	Room-Temperature Humidity Sensing Using Graphene Oxide Thin Films. *Graphene*, **2016**, 05, 1-13	1.5	42
60	Photoreduction and Thermal Properties of Graphene-Based Flexible Films. *Graphene*, **2017**, 06, 27-40	1.5	11
59	Charge Transport Properties of Polyaniline-gold/graphite Oxide Composite Films. *Bulletin of the Korean Chemical Society*, **2012**, 33, 449-452	1.2	8
58	Synthesis Methods for Carbon-Based Materials. *Indian Institute of Metals Series*, **2021**, 367-420	0.3	
57	Laser fabrication of stretchable graphene supercapacitors. **2021**,		
56	Preparation and properties of carbon thin films from the dispersion of graphite oxide or organically modified graphite oxides. *Tanso*, **2010**, 2010, 200-205	0.1	1
55	Graphene. *Advanced Materials and Technologies*, **2013**, 1-46		
54	Chemically derived graphene. **2014**, 223-250		1
53	Preparation of Graphene-Palladium Composite by Aerosol Process and Its Characterization for Glucose Biosensor. *The Journal of Korean Association for Particle and Aerosol Research*, **2014**, 10, 53-59		
52	References. 257-276		
51	Thermally Adjusted Graphene Oxide as the Hole Transport Layer for Organic Light-Emitting Diodes. *Journal of the Korean Society of Manufacturing Technology Engineers*, **2015**, 24, 363-367	0.2	
50	Reduction of graphene oxide by nanofocused ultrafast surface plasmon pulses. *OSA Continuum*, **2020**, 3, 2441	1.4	
49	Syntheses Approach of 2-D Oxide Family of Graphene for Supercapacitor Application (A-Review). *Oriental Journal of Chemistry*, **2020**, 36, 1016-1025	0.8	
48	Introduction of Graphene-Based Nanomaterials. *Springer Theses*, **2020**, 1-13	0.1	
47	Selective modification of electrical insulator material by ion micro beam for the fabrication of circuit elements. *Radiation Effects and Defects in Solids*, **2020**, 175, 307-317	0.9	1
46	Insights into the Role of Graphene/Graphene-hybrid Nanocomposites in Antiviral Therapy. *ChemBioEng Reviews*, **2021**, 8, 549	5.2	0
45	Depth Gradient Reduced Graphene Oxide Layer via Intense Pulsed Light Annealing Process for the Flexible Resistive Random Access Memory Device. *Advanced Electronic Materials*, 2101018	6.4	0
44	. *IEEE Access*, **2021**, 9, 154957-154964	3.5	1

43	Constructing S-Scheme CeO 2/CN Heterojunction for High Efficiency Light-Induced Photothermal Synergistic Catalytic Degradation of Gaseous Formaldehyde Under Visible Light Irradiation. *SSRN Electronic Journal*,	1	
42	Catalysts derived from Earth-abundant natural biomass enable efficient photocatalytic CO2 conversion for achieving a closed-loop carbon cycle. *Green Chemistry*, **2021**, 23, 9683-9692	10	0
41	Magnetically active nanocomposite aerogels: preparation, characterization and application for water treatment. *Journal of Porous Materials*, **2022**, 29, 545	2.4	0
40	The electrical and optical behavior of graphene oxide-doped nematic liquid crystal. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 5720	2.1	1
39	Mechanism of graphene oxide laser reduction at ambient conditions: Experimental and ReaxFF study. *Carbon*, **2022**, 191, 546-546	10.4	1
38	Application of Graphene-Related Materials in Organic Solar Cells.. *Materials*, **2022**, 15,	3.5	2
37	Retarded transport properties of graphene oxide based chiral separation membranes modified with dipeptide. *Separation and Purification Technology*, **2022**, 288, 120642	8.3	2
36	Coordination of thin-film nanofibrous composite dialysis membrane and reduced graphene oxide aerogel adsorbents for elimination of indoxyl sulfate. *Chinese Journal of Chemical Engineering*, **2022** ,	3.2	1
35	Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future Outlook.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 804201	5.8	2
34	Synthesis of Three-Dimensional Reduced-Graphene Oxide from Graphene Oxide. *Journal of Nanomaterials*, **2022**, 2022, 1-18	3.2	6
33	Two-dimensional layered carbon-based catalytic ozonation for water purification: Rational design of catalysts and an in-depth understanding of the interfacial reaction mechanism.. *Science of the Total Environment*, **2022**, 832, 155071	10.2	0
32	Engineered graphene-based mixed matrix membranes to boost CO2 separation performance: Latest developments and future prospects. *Renewable and Sustainable Energy Reviews*, **2022**, 160, 112294	16.2	0
31	Engineering of macroscale graphene oxide quantum dots skeleton membrane via electrostatic spraying method. *Journal of Membrane Science*, **2022**, 650, 120428	9.6	0
30	Constructing S-scheme CeO2/CN heterojunction for high efficiency light-induced photothermal synergistic catalytic degradation of gaseous formaldehyde under visible light irradiation. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107436	6.8	0
29	Wettability of graphene oxide functionalized with -alkylamines: a molecular dynamics study.. *Physical Chemistry Chemical Physics*, **2022**,	3.6	1
28	The formation of uniform graphene-polyaniline hybrids using a completely miscible cosolvent that have an excellent electrochemical performance. *New Carbon Materials*, **2022**, 37, 381-390	4.4	1
27	Direct-Writing of Multi-Functional Photo-Reduced Graphene Oxide Fabric (rGOf) at the Liquid-Air Interface with Tunable Porosity. *Advanced Materials Technologies*, 2200148	6.8	0
26	Graphene nano-platelet (GNP)□doped poly (methyl methacrylate) (PMMA) spray-coated piezoresistive-based 2D strain sensor under temperature environment on aluminium alloy 2024-T351. *Journal of Nanoparticle Research*, **2022**, 24,	2.3	0

25	A surface network based on oxidative graphene oxide for the determination of hydroquinone and catechol in ground and wastewater samples. *Journal of Electroanalytical Chemistry*, **2022**, 919, 116509	4.1	1
24	Giant Nonlinear Optical Response of Graphene Oxide Thin Films Under the Photochemical and Photothermal Reduction. *Advanced Materials Interfaces*, 2200890	4.6	0
23	Laser Processing of Flexible In-Plane Micro-supercapacitors: Progresses in Advanced Manufacturing of Nanostructured Electrodes. *ACS Nano*,	16.7	4
22	Graphene Synthesis: An Overview of Current Status. **2022**, 25-40		
21	Graphene-Based Polymer Composites for Flexible Electronic Applications. *Micromachines*, **2022**, 13, 1123	3.3	3
20	Recent developments in graphene and graphene oxide materials for polymer electrolyte membrane fuel cells applications. **2022**, 168, 112836		4
19	Graphene oxide: A mini-review on the versatility and challenges as a membrane material for solvent-based separation. **2022**, 12, 100392		1
18	Enhanced antibacterial property of zinc oxide nanoparticles by incorporation of graphene oxide. **2022**, 104, 246-257		0
17	PrMem: Novel flexible biodegradable paper-graphene oxide-based memristor.		0
16	Imbibition dynamics and steady flows in graphene nanochannels with sparse geometric and chemical defects. **2022**, 34, 112003		1
15	Synthesis of nitrogen-doped graphene driven from photothermal decomposition of ammonium bicarbonate and its application in supercapacitors. **2022**, 56, 105934		0
14	Reduced graphene oxide based composite aerogels for energy storage and transportation of methane. **2022**, 379, 134770		1
13	NANOCOMPOSITES OF ZINC OXIDE ON GRAPHENE OXIDE: A RAPID REDUCTION OF GRAPHENE OXIDE. **2021**, 16, 101-107		0
12	Thermal-needle-triggered cascade reduction of graphene oxide for controllable moving trajectory into conductive patterns.		0
11	Review on Fluorescent Carbon/Graphene Quantum Dots: Promising Material for Energy Storage and Next-Generation Light-Emitting Diodes. **2022**, 15, 7888		2
10	Facile formation of porous, multilayer reduced graphene oxide electrodes using electrophoretic deposition and flash sintering. **2022**,		0
9	Ultrastable 2D material-wrapped copper nanowires for high-performance flexible and transparent energy devices. **2023**, 106, 108067		1
8	Synthesis techniques and advances in sensing applications of reduced graphene oxide (rGO) Composites: A review. **2023**, 165, 107373		1

7	Hydrophobic metal-organic framework@graphene oxide membrane with enhanced water transport for desalination. **2022**, 121324	0
6	Mechanical and Water Absorption Properties of Waterborne Polyurethane/Graphene Oxide Composites. **2023**, 16, 178	1
5	Low-Voltage Driven Ionic Polymer-Metal Composite Actuators: Structures, Materials, and Applications. 2206135	0
4	Identification of Ultraviolet Photoinduced Presolvated Electrons in Water as the Reducing Agent in the Photoreduction of Graphene Oxide. **2023**, 127, 3516-3522	0
3	Large Area Millisecond Preparation of High-Quality, Few-Layer Graphene Films on Arbitrary Substrates via Xenon Flash Lamp Photothermal Pyrolysis and Their Application for High-Performance Micro-supercapacitors. **2023**, 15, 13495-13507	0
2	Graphene-based Composite Materials as Catalyst for Organic Transformations. **2023**, 8,	0
1	Single-atom Cu anchored on N-doped graphene/carbon nitride heterojunction for enhanced photocatalytic H2O2 production. **2023**, 161, 192-200	0