

# Liming Dai

## List of Publications by Year in Descending Order

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

686  
papers

83,792  
citations

145  
h-index

276  
g-index

731  
ext. papers

93,403  
ext. citations

10.6  
avg, IF

8.75  
L-index

#	Paper	IF	Citations
686	Charge transfer of carbon nanomaterials for efficient metal-free electrocatalysis <b>2022</b> , 1, 28-50		3
685	High-voltage lithium-ion capacitors enabled by a multifunctional phosphite electrolyte additive. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 431-442	19.4	1
684	Ultraviolet/ozone treatment for boosting OER activity of MOF nanoneedle arrays. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131498	14.7	5
683	Carbon-based bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions: Optimization strategies and mechanistic analysis. <i>Journal of Energy Chemistry</i> , <b>2022</b> ,	12	5
682	Carboxylated carbon nanotubes with high electrocatalytic activity for oxygen evolution in acidic conditions. <i>Informa Materials</i> , <b>2022</b> , 4,	23.1	2
681	Promoting CO <sub>2</sub> Electroreduction Kinetics on Atomically Dispersed Monovalent Zn(I) Sites by Rationally Engineering Proton-feeding Centers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	7
680	Understanding of catalytic ROS generation from defect-rich graphene quantum-dots for therapeutic effects in tumor microenvironment. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 340	9.4	2
679	Site-density engineering of single-atomic iron catalysts for high-performance proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 302, 120860	21.8	9
678	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Single-Atomic Iron Sites. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9160-9167	3.6	8
677	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Single-Atomic Iron Sites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9078-9085	16.4	60
676	Proton Capture Strategy for Enhancing Electrochemical CO <sub>2</sub> Reduction on Atomically Dispersed Metal-Nitrogen Active Sites**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12066-12072	3.6	8
675	Indirect surpassing CO <sub>2</sub> utilization in membrane-free CO <sub>2</sub> battery. <i>Nano Energy</i> , <b>2021</b> , 82, 105741	17.1	9
674	Proton Capture Strategy for Enhancing Electrochemical CO Reduction on Atomically Dispersed Metal-Nitrogen Active Sites*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11959-11965	16.4	57
673	Ignition delay times of NH <sub>3</sub> /DME blends at high pressure and low DME fraction: RCM experiments and simulations. <i>Combustion and Flame</i> , <b>2021</b> , 227, 120-134	5.3	19
672	Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li-CO <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101390	21.8	17
671	Unveiling Trifunctional Active Sites of a Heteronanosheet Electrocatalyst for Integrated Cascade Battery/Electrolyzer Systems. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2460-2468	20.1	7
670	Non-N-Doped Carbons as Metal-Free Electrocatalysts. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2000134	5.9	11

669	Hierarchically structured electrodes for moldable supercapacitors by synergistically hybridizing vertical graphene nanosheets and MnO <sub>2</sub> . <i>Carbon</i> , <b>2021</b> , 172, 272-282	10.4	27
668	High-performance metal-free batteries enabled by a bifunctional dendrite-free Li/Na alloy anode. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 538-545	13	5
667	Universal domino reaction strategy for mass production of single-atom metal-nitrogen catalysts for boosting CO <sub>2</sub> electroreduction. <i>Nano Energy</i> , <b>2021</b> , 82, 105689	17.1	17
666	Electrocatalysis for CO conversion: from fundamentals to value-added products. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 4993-5061	58.5	157
665	Carbon-based metal-free electrocatalysts: from oxygen reduction to multifunctional electrocatalysis. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 11785-11843	58.5	24
664	Multifunctional carbon-based metal-free catalysts for advanced energy conversion and storage. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100328	6.1	24
663	Structural Engineering of Ultrathin ReS on Hierarchically Architected Graphene for Enhanced Oxygen Reduction. <i>ACS Nano</i> , <b>2021</b> , 15, 5560-5566	16.7	6
662	Carbon-supported layered double hydroxide nanodots for efficient oxygen evolution: Active site identification and activity enhancement. <i>Nano Research</i> , <b>2021</b> , 14, 3329-3336	10	5
661	Biocompatible nucleus-targeted graphene quantum dots for selective killing of cancer cells via DNA damage. <i>Communications Biology</i> , <b>2021</b> , 4, 214	6.7	15
660	Designing Undercoordinated Ni-N and Fe-N on Holey Graphene for Electrochemical CO Conversion to Syngas. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
659	Plasma-induced moieties impart super-efficient activity to hydrogen evolution electrocatalysts. <i>Nano Energy</i> , <b>2021</b> , 85, 106030	17.1	10
658	Earth-abundant metal-free carbon-based electrocatalysts for Zn-air batteries to power electrochemical generation of H <sub>2</sub> O <sub>2</sub> for in-situ wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 128338	14.7	8
657	Facet Engineering in Ultrathin Two-Dimensional NiFe Metal-Organic Frameworks by Coordination Modulation for Enhanced Electrocatalytic Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10892-10901	8.3	8
656	Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li-CO <sub>2</sub> Batteries (Adv. Energy Mater. 30/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170120	21.8	
655	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1854-1896	35.4	67
654	Nanoporous graphitic carbon for efficient supercapacitors and related energy applications <b>2021</b> , 143-178		1
653	Sacrificial Template Synthesis of Two-Dimensional Few-Layer MoSe <sub>2</sub> Coupled with Nitrogen-Doped Carbon Sheets for High-Performance Sodium Ion Hybrid Capacitors. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14735-14745	6.1	2
652	Nitrogen-Doped Graphene Foam as a Metal-Free Catalyst for Reduction Reactions under a High Gravity Field. <i>Engineering</i> , <b>2020</b> , 6, 680-687	9.7	18

651	Gas Diffusion Strategy for Inserting Atomic Iron Sites into Graphitized Carbon Supports for Unusually High-Efficient CO Electroreduction and High-Performance Zn-CO Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002430	24	80
650	A facile approach to high-performance trifunctional electrocatalysts by substrate-enhanced electroless deposition of Pt/NiO/Ni on carbon nanotubes. <i>Nanoscale</i> , <b>2020</b> , 12, 14615-14625	7.7	14
649	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436	24	71
648	High-Performance Li-CO <sub>2</sub> Batteries from Free-Standing, Binder-Free, Bifunctional Three-Dimensional Carbon Catalysts. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 916-921	20.1	43
647	Origins of Boosted Charge Storage on Heteroatom-Doped Carbons. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7928-7933	16.4	54
646	Carbon-Defect-Driven Electroless Deposition of Pt Atomic Clusters for Highly Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5594-5601	16.4	87
645	Harnessing the interplay of Fe/Ni atom pairs embedded in nitrogen-doped carbon for bifunctional oxygen electrocatalysis. <i>Nano Energy</i> , <b>2020</b> , 71, 104597	17.1	108
644	Experimental and numerical analysis of the autoignition behavior of NH <sub>3</sub> and NH <sub>3</sub> /H <sub>2</sub> mixtures at high pressure. <i>Combustion and Flame</i> , <b>2020</b> , 215, 134-144	5.3	33
643	An ultra-long life, high-performance, flexible Li-CO <sub>2</sub> battery based on multifunctional carbon electrocatalysts. <i>Nano Energy</i> , <b>2020</b> , 71, 104595	17.1	41
642	Nitrogen-rich holey graphene for efficient oxygen reduction reaction. <i>Carbon</i> , <b>2020</b> , 162, 66-73	10.4	34
641	Fiber-Shaped Energy-Storage Devices: Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries (Adv. Mater. 5/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070037	24	6
640	Holey graphene-based nanocomposites for efficient electrochemical energy storage. <i>Nano Energy</i> , <b>2020</b> , 73, 104762	17.1	49
639	Autoignition studies of NH <sub>3</sub> /CH <sub>4</sub> mixtures at high pressure. <i>Combustion and Flame</i> , <b>2020</b> , 218, 19-26	5.3	18
638	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902779	24	83
637	Rapid and energy-efficient microwave pyrolysis for high-yield production of highly-active bifunctional electrocatalysts for water splitting. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 545-553	35.4	99
636	High-Performance K-CO <sub>2</sub> Batteries Based on Metal-Free Carbon Electrocatalysts. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3498-3502	3.6	5
635	High-Performance K-CO Batteries Based on Metal-Free Carbon Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3470-3474	16.4	47
634	Metal-free photo- and electro-catalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23674-23698	13	21

633	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3560-3568	20.1	27
632	Heteroatom-doped carbon catalysts for zinc-air batteries: progress, mechanism, and opportunities. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4536-4563	35.4	83
631	Porous Graphene Oxide Films Prepared via the Breath-Figure Method: A Simple Strategy for Switching Access of Redox Species to an Electrode Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55181-55188	9.5	4
630	Gas expansion-assisted preparation of 3D porous carbon nanosheet for high-performance sodium ion hybrid capacitor. <i>Journal of Power Sources</i> , <b>2020</b> , 475, 228679	8.9	16
629	Transforming active sites in nickel-nitrogen-carbon catalysts for efficient electrochemical CO <sub>2</sub> reduction to CO. <i>Nano Energy</i> , <b>2020</b> , 78, 105213	17.1	22
628	TpyCo <sup>2+</sup> -Based Coordination Polymers by Water-Induced Gelling Triggered Efficient Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000593	15.6	16
627	Targeted Defect Synthesis for Improved Electrocatalytic Performance. <i>Chem</i> , <b>2020</b> , 6, 1849-1851	16.2	6
626	Recent advances in flexible/stretchable batteries and integrated devices. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 116-138	19.4	22
625	Hole-punching for enhancing electrocatalytic activities of 2D graphene electrodes: Less is more. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 074701	3.9	0
624	Task-Specific Synthesis of 3D Porous Carbon Nitrides from the Cycloaddition Reaction and Sequential Self-Assembly Strategy toward Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 40433-40442	9.5	14
623	Innenteilbild: Donor-Acceptor Nanocarbon Ensembles to Boost Metal-Free All-pH Hydrogen Evolution Catalysis by Combined Surface and Dual Electronic Modulation (Angew. Chem. 45/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16086-16086	3.6	
622	Collisional processes between the Qiangtang Block and the Lhasa Block: Insights from structural analysis of the Bangong-Nujiang Suture Zone, central Tibet. <i>Geological Journal</i> , <b>2019</b> , 54, 946-960	1.7	11
621	Variation in Flame Temperature with Burner Stabilization in 1D Premixed Dimethyl Ether/Air Flames Measured by Spontaneous Raman Scattering. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 11976-11984	4.1	1
620	A graphene rheostat for highly durable and stretchable strain sensor. <i>Information Materials</i> , <b>2019</b> , 1, 396-406	3.1	22
619	Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806128	24	118
618	Activation of transition metal oxides by in-situ electro-regulated structure-reconstruction for ultra-efficient oxygen evolution. <i>Nano Energy</i> , <b>2019</b> , 58, 778-785	17.1	57
617	Conducting Polymers for Flexible Supercapacitors. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1800355	2.6	89
616	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , <b>2019</b> , 2, 688-695	36.5	251

615	Catalytic origin and universal descriptors of heteroatom-doped photocatalysts for solar fuel production. <i>Nano Energy</i> , <b>2019</b> , 63, 103819	17.1	17
614	Tactile UV- and Solar-Light Multi-Sensing Rechargeable Batteries with Smart Self-Conditioned Charge and Discharge. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9349-9354	3.6	4
613	C-Adsorbed Single-Walled Carbon Nanotubes as Metal-Free, pH-Universal, and Multifunctional Catalysts for Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11658-11666	16.4	129
612	Tactile UV- and Solar-Light Multi-Sensing Rechargeable Batteries with Smart Self-Conditioned Charge and Discharge. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9248-9253	16.4	30
611	Facile Synthesis of Acetal Over a Supported Novel Brønsted and Lewis Acid Ionic Liquid Catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 4396-4405	1.3	3
610	Carbon Nanotube Energy Applications <b>2019</b> , 695-728		3
609	Ultrathin Black Phosphorus-on-Nitrogen Doped Graphene for Efficient Overall Water Splitting: Dual Modulation Roles of Directional Interfacial Charge Transfer. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4972-4979	16.4	158
608	Integrated Energy Devices: 3D Heteroatom-Doped Carbon Nanomaterials as Multifunctional Metal-Free Catalysts for Integrated Energy Devices (Adv. Mater. 13/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970094	24	7
607	Edge-doping modulation of N, P-codoped porous carbon spheres for high-performance rechargeable Zn-air batteries. <i>Nano Energy</i> , <b>2019</b> , 60, 536-544	17.1	163
606	3D Heteroatom-Doped Carbon Nanomaterials as Multifunctional Metal-Free Catalysts for Integrated Energy Devices. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805598	24	129
605	Recent Advances in Carbon-Based Metal-Free Electrocatalysts. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806403	24	133
604	Chemical Approaches to Carbon-Based Metal-Free Catalysts. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804863	24	53
603	Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. <i>ACS Central Science</i> , <b>2019</b> , 5, 389-408	16.8	50
602	Two-Dimensional Conjugated Aromatic Networks as High-Site-Density and Single-Atom Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14866-14872	3.6	15
601	Two-Dimensional Conjugated Aromatic Networks as High-Site-Density and Single-Atom Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14724-14730	16.4	75
600	Donor-Acceptor Nanocarbon Ensembles to Boost Metal-Free All-pH Hydrogen Evolution Catalysis by Combined Surface and Dual Electronic Modulation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16217-16222	16.4	32
599	Carbonaceous materials for efficient electrocatalysis <b>2019</b> , 375-394		2
598	Highly sensitive and selective electrochemical immunosensors by substrate-enhanced electroless deposition of metal nanoparticles onto three-dimensional graphene@Ni foams. <i>Science Bulletin</i> , <b>2019</b> , 64, 1272-1279	10.6	5

597	Innenrücktitelbild: Tactile UV- and Solar-Light Multi-Sensing Rechargeable Batteries with Smart Self-Conditioned Charge and Discharge (Angew. Chem. 27/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9389-9389	3.6	1
596	Graphdiyne with tunable activity towards hydrogen evolution reaction. <i>Nano Energy</i> , <b>2019</b> , 63, 103874	17.1	29
595	Donor-Acceptor Nanocarbon Ensembles to Boost Metal-Free All-pH Hydrogen Evolution Catalysis by Combined Surface and Dual Electronic Modulation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16363-16368	3.6	6
594	Ten years of carbon-based metal-free electrocatalysts <b>2019</b> , 1, 19-31		76
593	Copolymer-Induced Intermolecular Charge Transfer: Enhancing the Activity of Metal-Free Catalysts for Oxygen Reduction. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 5652-5657	4.8	3
592	3D Pt/Graphene foam bioplatfrom for highly sensitive and selective in-situ adsorption and detection of superoxide anions released from living cells. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 209-217	8.5	19
591	Controlled Surface Elemental Distribution Enhances Catalytic Activity and Stability. <i>Matter</i> , <b>2019</b> , 1, 1447-1449	11.4	96
590	Doping of Carbon Materials for Metal-Free Electrocatalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804672	24	223
589	Nanoparticle based simple electrochemical biosensor platform for profiling of protein-nucleic acid interactions. <i>Talanta</i> , <b>2019</b> , 195, 46-54	6.2	11
588	Facile Synthesis of Nanostructural High-Performance Cu <sub>2</sub> B Electroacatalysts for CO <sub>2</sub> Reduction. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801200	4.6	13
587	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , <b>2019</b> , 31, e1801526	24	184
586	Thermal conductivity of carbon nanotubes grown by catalyst-free chemical vapor deposition in nanopores. <i>Carbon</i> , <b>2019</b> , 145, 195-200	10.4	28
585	Carbon-Based Metal-Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804799	24	412
584	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/NiCoO Nanoflake/graphite Fibers. <i>Advanced Science</i> , <b>2019</b> , 6, 1801829	13.6	78
583	Ancient Chemistry "Pharaoh's Snakes" for Efficient Fe-/N-Doped Carbon Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10778-10785	9.5	52
582	N-doped porous carbon nanosheets as pH-universal ORR electrocatalyst in various fuel cell devices. <i>Nano Energy</i> , <b>2018</b> , 49, 393-402	17.1	224
581	Multicolor Electrochromic Fibers with Helix-Patterned Electrodes. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800104	6.4	27
580	Metal Charge Transfer Doped Carbon Dots with Reversibly Switchable, Ultra-High Quantum Yield Photoluminescence. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1886-1893	5.6	44

579	Oxygen Vacancy Engineering in Europia Clusters/Graphite-Like Carbon Nitride Nanostructures Induced Signal Amplification for Highly Efficient Electrochemiluminescence Aptasensing. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3615-3620	7.8	34
578	Novel MOF-Derived Co@N-C Bifunctional Catalysts for Highly Efficient Zn-Air Batteries and Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705431	24	514
577	Dynamic mechanism of tectonic inversion and implications for oil gas accumulation in the Xihu Sag, East China Sea Shelf Basin: Insights from numerical modelling. <i>Geological Journal</i> , <b>2018</b> , 53, 225-239	1.7	2
576	Multifunctional electrocatalysts derived from conducting polymer and metal organic framework complexes. <i>Nano Energy</i> , <b>2018</b> , 45, 127-135	17.1	124
575	Flexible fiber-shaped non-enzymatic sensors with a graphene-metal heterostructure based on graphene fibres decorated with gold nanosheets. <i>Carbon</i> , <b>2018</b> , 136, 329-336	10.4	41
574	Interfacial aspects of carbon composites. <i>Composite Interfaces</i> , <b>2018</b> , 25, 539-605	2.3	39
573	Functionalization of graphene materials by heteroatom-doping for energy conversion and storage. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 121-132	3.6	100
572	Carbon-Based Metal-Free Electrocatalysis for Energy Conversion, Energy Storage, and Environmental Protection. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 84-112	29.3	109
571	Fabrication and Friction Coefficient of Graphene Oxide Reinforced Hydroxyapatite Composite. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 1893-1900	1.3	4
570	Microporous N,P-Codoped Graphitic Nanosheets as an Efficient Electrocatalyst for Oxygen Reduction in Whole pH Range for Energy Conversion and Biosensing Dissolved Oxygen. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18487-18493	4.8	23
569	Flexible All-Solid-State Supercapacitors and Micro-Pattern Supercapacitors <b>2018</b> , 1-36		
568	Self-assembly in Fabrication of Semitransparent and Mesoplanar Hybrid Perovskite Photovoltaic Devices <b>2018</b> , 283-304		
567	Flexible Organic Solar Cells <b>2018</b> , 305-337		0
566	Flexible Quantum Dot Sensitized Solar Cells <b>2018</b> , 339-382		1
565	Flexible Triboelectric Nanogenerators <b>2018</b> , 383-423		1
564	Flexible Thermoelectric Materials and Devices <b>2018</b> , 425-457		1
563	Carbon-based Electrocatalysts for Water-splitting <b>2018</b> , 459-483		1
562	Fiber/Yarn-Based Flexible Supercapacitor <b>2018</b> , 37-65		



561 Flexible Lithium Ion Batteries **2018**, 67-96

560 Flexible Sodium Ion Batteries: From Materials to Devices **2018**, 97-125

559 1D and 2D Flexible Carbon Matrix Materials for Lithium-Sulfur Batteries **2018**, 127-153

1

558 Flexible Electrodes for Lithium-Sulfur Batteries **2018**, 155-181

2

557 Flexible Lithium-Air Batteries **2018**, 183-213

556 Nanodielectric Elastomers for Flexible Generators **2018**, 215-237

555 Flexible Dye-Sensitized Solar Cells **2018**, 239-281

0

554 Graphene-Based Nanomaterials for Flexible and Wearable Supercapacitors. *Small*, **2018**, 14, e1800879 11 74

553 Strong Graphene 3D Assemblies with High Elastic Recovery and Hardness. *Advanced Materials*, **2018**, 30, e1707424 24 18

552 Highly crystalline sulfur-doped carbon nitride as photocatalyst for efficient visible-light hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 238, 592-598 21.8 97

551 Alkylation of phenol with tert-butyl alcohol catalyzed by ionic liquid-supported MCM-41 with different pore sizes. *Reaction Kinetics, Mechanisms and Catalysis*, **2018**, 125, 351-364 1.6 4

550 CO Overall Splitting by a Bifunctional Metal-Free Electrocatalyst. *Angewandte Chemie - International Edition*, **2018**, 57, 13135-13139 16.4 52

549 CO<sub>2</sub> Overall Splitting by a Bifunctional Metal-Free Electrocatalyst. *Angewandte Chemie*, **2018**, 130, 13319-13324 16.3 54

548 Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. *Angewandte Chemie*, **2018**, 130, 9176-9181 3.6 73

547 Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. *Angewandte Chemie - International Edition*, **2018**, 57, 9038-9043 16.4 329

546 Label-Free Graphene Oxide Föster Resonance Energy Transfer Sensors for Selective Detection of Dopamine in Human Serums and Cells. *Journal of Physical Chemistry C*, **2018**, 122, 13314-13321 3.8 13

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539	Defective Carbons for Electrocatalytic Oxygen Reduction <b>2018</b> , 59-75		0
538	Designing Porous Structures and Active Sites in Carbon-Based Electrocatalysts <b>2018</b> , 77-99		
537	Porous Organic Polymers as a Molecular Platform for Designing Porous Carbons <b>2018</b> , 101-131		
536	Nanocarbons from Synthetic Polymer Precursors and Their Catalytic Properties <b>2018</b> , 133-166		
535	Heteroatom-Doped, Three-Dimensional, Carbon-Based Catalysts for Energy Conversion and Storage by Metal-Free Electrocatalysis <b>2018</b> , 167-225		1
534	Active Sites in Nitrogen-Doped Carbon Materials for Oxygen Reduction Reaction <b>2018</b> , 227-249		8
533	Unraveling the Active Site on Metal-Free, Carbon-Based Catalysts for Multifunctional Applications <b>2018</b> , 251-283		
532	Carbon-Based, Metal-Free Electrocatalysts for Renewable Energy Technologies <b>2018</b> , 313-334		
531	Carbon-Based, Metal-Free Catalysts for Chemical Productions <b>2018</b> , 659-673		
530	Heteroatom-Doped, Carbon-Supported Metal Catalysts for Electrochemical Energy Conversions <b>2018</b> , 675-698		
529	Carbon-Based, Metal-Free Catalysts for Electrocatalysis of ORR <b>2018</b> , 335-368		2
528	Hydrothermal Carbon Materials for the Oxygen Reduction Reaction <b>2018</b> , 369-401		2
527	Carbon-Based Electrochemical Oxygen Reduction and Hydrogen Evolution Catalysts <b>2018</b> , 403-455		1
526	Carbon-Based, Metal-Free Catalysts for Photocatalysis <b>2018</b> , 457-500		0

525	Functionalized Graphene-Based, Metal-Free Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells <b>2018</b> , 529-554		1
524	Carbon-Based, Metal-Free Catalysts for Metal-Air Batteries <b>2018</b> , 555-596		0
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4 <sup>17</sup>	3D graphene based materials for energy storage. <i>Current Opinion in Colloid and Interface Science</i> , <b>2015</b> , 20, 429-438	7.6	63
4 <sup>16</sup>	Robust self-cleaning and micromanipulation capabilities of gecko spatulae and their bio-mimics. <i>Nature Communications</i> , <b>2015</b> , 6, 8949	17.4	87
4 <sup>15</sup>	High-Performance, Stretchable, Wire-Shaped Supercapacitors. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 628-632	3.6	31
4 <sup>14</sup>	Recent Advances in Graphene Quantum Dots for Fluorescence Bioimaging from Cells through Tissues to Animals. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 515-523	3.1	86
4 <sup>13</sup>	Layer-by-layer growth of CH <sub>3</sub> NH <sub>2</sub> Bi(3-x)Cl <sub>x</sub> for highly efficient planar heterojunction perovskite solar cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 1053-9	24	192
4 <sup>12</sup>	Facile fabrication of 3D layer-by-layer graphene-gold nanorod hybrid architecture for hydrogen peroxide based electrochemical biosensor. <i>Sensing and Bio-Sensing Research</i> , <b>2015</b> , 3, 7-11	3.3	20
4 <sup>11</sup>	Sulfur-doped graphene derived from cycled lithium-sulfur batteries as a metal-free electrocatalyst for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1888-92	16.4	293
4 <sup>10</sup>	Sulfur-Doped Graphene Derived from Cycled Lithium-Sulfur Batteries as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1908-1912	3.6	50
4 <sup>09</sup>	Multifunctional luminescent nanomaterials from NaLa(MoO <sub>4</sub> ) <sub>2</sub> :Eu(3+)/Tb(3+) with tunable decay lifetimes, emission colors, and enhanced cell viability. <i>Scientific Reports</i> , <b>2015</b> , 5, 11844	4.9	34
4 <sup>08</sup>	High Performance Heteroatoms Quaternary-doped Carbon Catalysts Derived from Shewanella Bacteria for Oxygen Reduction. <i>Scientific Reports</i> , <b>2015</b> , 5, 17064	4.9	47
4 <sup>07</sup>	Heteroatom-Doped Carbon Nanotubes as Advanced Electrocatalysts for Oxygen Reduction Reaction <b>2015</b> , 1-16		3
4 <sup>06</sup>	Living Cells Directly Growing on a DNA/Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> -Immobilized and Vertically Aligned CNT Array as a Free-Standing Hybrid Film for Highly Sensitive In Situ Detection of Released Superoxide Anions. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5924-5932	15.6	41
4 <sup>05</sup>	Design Principles for Heteroatom-Doped Carbon Nanomaterials as Highly Efficient Catalysts for Fuel Cells and Metal-Air Batteries. <i>Advanced Materials</i> , <b>2015</b> , 27, 6834-40	24	389
4 <sup>04</sup>	Nitrogen-Doped Holey Graphene as an Anode for Lithium-Ion Batteries with High Volumetric Energy Density and Long Cycle Life. <i>Small</i> , <b>2015</b> , 11, 6179-85	11	89
4 <sup>03</sup>	Macroscopic Graphene Fibers Directly Assembled from CVD-Grown Fiber-Shaped Hollow Graphene Tubes. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 15160-15163	3.6	11
4 <sup>02</sup>	Macroscopic Graphene Fibers Directly Assembled from CVD-Grown Fiber-Shaped Hollow Graphene Tubes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14947-50	16.4	39
4 <sup>01</sup>	PAF-derived nitrogen-doped 3D Carbon Materials for Efficient Energy Conversion and Storage. <i>Scientific Reports</i> , <b>2015</b> , 5, 8307	4.9	25
4 <sup>00</sup>	Graphene Quantum Dots Supported by Graphene Nanoribbons with Ultrahigh Electrocatalytic Performance for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7588-91	16.4	221

399	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1328-1328	15.6	6
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397	Study on the combustion process and work capacity of a micro free-piston engine. <i>Journal of Mechanical Science and Technology</i> , <b>2015</b> , 29, 4993-5000	1.6	7
396	Nitrogen-doped graphene by ball-milling graphite with melamine for energy conversion and storage. <i>2D Materials</i> , <b>2015</b> , 2, 044001	5.9	50
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389	Graphene oxide complex as a pH-sensitive antitumor drug. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2401-2406	4.9	25
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