

# Liming Dai

## List of Publications by Citations

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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	Nitrogen-doped carbon nanotube arrays with high electrocatalytic activity for oxygen reduction. <i>Science</i> , <b>2009</b> , 323, 760-4	33.3	5832
685	Nitrogen-doped graphene as efficient metal-free electrocatalyst for oxygen reduction in fuel cells. <i>ACS Nano</i> , <b>2010</b> , 4, 1321-6	16.7	3349
684	A metal-free bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 444-52	28.7	2290
683	Metal-free catalysts for oxygen reduction reaction. <i>Chemical Reviews</i> , <b>2015</b> , 115, 4823-92	68.1	1763
682	Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15-8	16.4	1623
681	Plasma-Engraved Co <sub>3</sub> O <sub>4</sub> Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5277-81	16.4	1248
680	Scalable synthesis of hierarchically structured carbon nanotube-graphene fibres for capacitive energy storage. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 555-62	28.7	1161
679	Carbon nanomaterials for advanced energy conversion and storage. <i>Small</i> , <b>2012</b> , 8, 1130-66	11	1149
678	Self-Assembled Graphene/Carbon Nanotube Hybrid Films for Supercapacitors. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 467-470	6.4	999
677	BCN graphene as efficient metal-free electrocatalyst for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 4209-12	16.4	996
676	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606459	24	943
675	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , <b>2016</b> , 2, e1501122	14.3	884
674	Carbon-based metal-free catalysts. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	777
673	Power generation with laterally packaged piezoelectric fine wires. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 34-928.7	28.7	765
672	Highly luminescent carbon nanodots by microwave-assisted pyrolysis. <i>Chemical Communications</i> , <b>2012</b> , 48, 7955-7	5.8	725
671	Polyaniline-grafted reduced graphene oxide for efficient electrochemical supercapacitors. <i>ACS Nano</i> , <b>2012</b> , 6, 1715-23	16.7	724
670	High-performance sodium ion batteries based on a 3D anode from nitrogen-doped graphene foams. <i>Advanced Materials</i> , <b>2015</b> , 27, 2042-8	24	695

669	Functionalization of graphene for efficient energy conversion and storage. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 31-42	24.3	668
668	Etched and doped Co9S8/graphene hybrid for oxygen electrocatalysis. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1320-1326	35.4	652
667	Vertically aligned BCN nanotubes as efficient metal-free electrocatalysts for the oxygen reduction reaction: a synergetic effect by co-doping with boron and nitrogen. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11756-60	16.4	650
666	N,P-Codoped Carbon Networks as Efficient Metal-free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2230-4	16.4	638
665	Polyelectrolyte-functionalized graphene as metal-free electrocatalysts for oxygen reduction. <i>ACS Nano</i> , <b>2011</b> , 5, 6202-9	16.7	617
664	Polyelectrolyte functionalized carbon nanotubes as efficient metal-free electrocatalysts for oxygen reduction. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5182-5	16.4	616
663	Carbon nanotube arrays with strong shear binding-on and easy normal lifting-off. <i>Science</i> , <b>2008</b> , 322, 238-42	33.3	600
662	Biocompatible graphene oxide-based glucose biosensors. <i>Langmuir</i> , <b>2010</b> , 26, 6158-60	4	592
661	Highly efficient metal-free growth of nitrogen-doped single-walled carbon nanotubes on plasma-etched substrates for oxygen reduction. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15127-9	16.4	563
660	Are diamond nanoparticles cytotoxic?. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 2-7	3.4	563
659	Graphene for energy conversion and storage in fuel cells and supercapacitors. <i>Nano Energy</i> , <b>2012</b> , 1, 534-551	17.1	548
658	Carbon nanocomposite catalysts for oxygen reduction and evolution reactions: From nitrogen doping to transition-metal addition. <i>Nano Energy</i> , <b>2016</b> , 29, 83-110	17.1	540
657	Nitrogen-doped graphene foams as metal-free counter electrodes in high-performance dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12124-7	16.4	535
656	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
655	Multifunctional Carbon-Based Metal-Free Electrocatalysts for Simultaneous Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604942	24	510
654	Scalable Fabrication of Nanoporous Carbon Fiber Films as Bifunctional Catalytic Electrodes for Flexible Zn-Air Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 3000-6	24	508
653	Large-scale production of edge-selectively functionalized graphene nanoplatelets via ball milling and their use as metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1386-93	16.4	497
652	Edge-carboxylated graphene nanosheets via ball milling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 5588-93	11.5	496

651	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO <sub>2</sub> Adsorption. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2820-2828	9.6	480
650	Nitrogen-doped colloidal graphene quantum dots and their size-dependent electrocatalytic activity for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18932-5	16.4	478
649	Metal-Free Carbon Nanomaterials Become More Active than Metal Catalysts and Last Longer. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2165-2173	6.4	477
648	Carbon nanomaterials for high-performance supercapacitors. <i>Materials Today</i> , <b>2013</b> , 16, 272-280	21.8	476
647	Edge-selectively sulfurized graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction: the electron spin effect. <i>Advanced Materials</i> , <b>2013</b> , 25, 6138-45	24	465
646	Carbon-Based Metal-Free Catalysts for Electrocatalysis beyond the ORR. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11736-58	16.4	458
645	N-doped carbon nanomaterials are durable catalysts for oxygen reduction reaction in acidic fuel cells. <i>Science Advances</i> , <b>2015</b> , 1, e1400129	14.3	457
644	Edge-rich and dopant-free graphene as a highly efficient metal-free electrocatalyst for the oxygen reduction reaction. <i>Chemical Communications</i> , <b>2016</b> , 52, 2764-7	5.8	443
643	Carbon-based electrocatalysts for advanced energy conversion and storage. <i>Science Advances</i> , <b>2015</b> , 1, e1500564	14.3	434
642	Heteroatom-Doped Graphitic Carbon Catalysts for Efficient Electrocatalysis of Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2015</b> , 5, 7244-7253	13.1	422
641	Soluble P3HT-grafted graphene for efficient bilayer-heterojunction photovoltaic devices. <i>ACS Nano</i> , <b>2010</b> , 4, 5633-40	16.7	415
640	Carbon-Based Metal-Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804799	24	412
639	Carbon-based supercapacitors for efficient energy storage. <i>National Science Review</i> , <b>2017</b> , 4, 453-489	10.8	409
638	Nitrogen, Phosphorus, and Fluorine Tri-doped Graphene as a Multifunctional Catalyst for Self-Powered Electrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13296-13300	16.4	406
637	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
636	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. <i>Scientific Reports</i> , <b>2013</b> , 3, 2248	4.9	367
635	Highly efficient electrocatalysts for oxygen reduction based on 2D covalent organic polymers complexed with non-precious metals. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2433-7	16.4	363
634	Transparent and stretchable high-performance supercapacitors based on wrinkled graphene electrodes. <i>ACS Nano</i> , <b>2014</b> , 8, 1039-46	16.7	363

633	Plasma-Engraved Co <sub>3</sub> O <sub>4</sub> Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5363-5367	3.6	363
632	Nitrogen-doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene electrodes for high-performance supercapacitors. <i>Nano Energy</i> , <b>2017</b> , 38, 368-376	17.1	348
631	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 893-899	35.4	342
630	Preparation of Tunable 3D Pillared Carbon Nanotube/Graphene Networks for High-Performance Capacitance. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4810-4816	9.6	342
629	Flexible supercapacitors based on carbon nanomaterials. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10756-63	5.3	337
628	Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 9038-9043	16.4	329
627	Oxygen reduction reaction in a droplet on graphite: direct evidence that the edge is more active than the basal plane. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10804-8	16.4	326
626	Effect of carbon nanotubes on the interfacial shear strength of T650 carbon fiber in an epoxy matrix. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 898-904	8.6	317
625	DNA damage induced by multiwalled carbon nanotubes in mouse embryonic stem cells. <i>Nano Letters</i> , <b>2007</b> , 7, 3592-7	11.5	311
624	High performance electrochemical capacitors from aligned carbon nanotube electrodes and ionic liquid electrolytes. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 1270-1277	8.9	307
623	Controlled Synthesis and Modification of Carbon Nanotubes and C60: Carbon Nanostructures for Advanced Polymeric Composite Materials. <i>Advanced Materials</i> , <b>2001</b> , 13, 899-913	24	299
622	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
621	Newly-designed complex ternary Pt/PdCu nanoboxes anchored on three-dimensional graphene framework for highly efficient ethanol oxidation. <i>Advanced Materials</i> , <b>2012</b> , 24, 5493-8	24	287
620	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. <i>Advanced Materials</i> , <b>2016</b> , 28, 8669-8674	24	283
619	3-D carbon nanotube structures used as high performance catalyst for oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15839-41	16.4	280
618	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction. <i>Scientific Reports</i> , <b>2013</b> , 3, 1810	4.9	278
617	Substrate-enhanced electroless deposition of metal nanoparticles on carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10806-7	16.4	276
616	Conducting Polyaniline Nanotubes by Template-Free Polymerization. <i>Macromolecules</i> , <b>2001</b> , 34, 675-677	5.5	276

615	Differential biocompatibility of carbon nanotubes and nanodiamonds. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 2118-2123	3.5	275
614	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. <i>Nanoscale</i> , <b>2013</b> , 5, 3428-34	7.7	274
613	Magnetic liquid marbles: a "precise" miniature reactor. <i>Advanced Materials</i> , <b>2010</b> , 22, 4814-8	24	271
612	Vertically Aligned Carbon Nanotube Arrays Co-doped with Phosphorus and Nitrogen as Efficient Metal-Free Electrocatalysts for Oxygen Reduction. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2863-70	6.4	269
611	Multifunctional chemical vapor sensors of aligned carbon nanotube and polymer composites. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1412-3	16.4	266
610	Three-dimensional B,N-doped graphene foam as a metal-free catalyst for oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12220-6	3.6	260
609	Nitrogen-doped holey graphitic carbon from 2D covalent organic polymers for oxygen reduction. <i>Advanced Materials</i> , <b>2014</b> , 26, 3315-20	24	259
608	Polyaniline Nanotubes Doped with Sulfonated Carbon Nanotubes Made Via a Self-Assembly Process. <i>Advanced Materials</i> , <b>2003</b> , 15, 136-139	24	259
607	Effect of microstructure of nitrogen-doped graphene on oxygen reduction activity in fuel cells. <i>Langmuir</i> , <b>2012</b> , 28, 7542-50	4	256
606	Hole and electron extraction layers based on graphene oxide derivatives for high-performance bulk heterojunction solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 2228-33	24	256
605	Patterned Growth and Contact Transfer of Well-Aligned Carbon Nanotube Films. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4223-4227	3.4	255
604	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
603	Biosensors Based on Aligned Carbon Nanotubes Coated with Inherently Conducting Polymers. <i>Electroanalysis</i> , <b>2003</b> , 15, 1089-1094	3	247
602	High-performance transparent and stretchable all-solid supercapacitors based on highly aligned carbon nanotube sheets. <i>Scientific Reports</i> , <b>2014</b> , 4, 3612	4.9	239
601	Hierarchical composites of carbon nanotubes on carbon fiber: Influence of growth condition on fiber tensile properties. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 594-601	8.6	237
600	Plasma Activation of Carbon Nanotubes for Chemical Modification. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 618-622	3.4	236
599	One-step coating of fluoro-containing silica nanoparticles for universal generation of surface superhydrophobicity. <i>Chemical Communications</i> , <b>2008</b> , 877-9	5.8	229
598	Structure and growth of aligned carbon nanotube films by pyrolysis. <i>Chemical Physics Letters</i> , <b>2000</b> , 316, 349-355	2.5	227

597	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
596	Facile Synthesis of Black Phosphorus: an Efficient Electrocatalyst for the Oxygen Evolving Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13849-13853	16.4	223
595	Doping of Carbon Materials for Metal-Free Electrocatalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804672	24	223
594	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
593	Vertically aligned N-doped coral-like carbon fiber arrays as efficient air electrodes for high-performance nonaqueous Li-O <sub>2</sub> batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 3015-22	16.7	219
592	An asymmetrically surface-modified graphene film electrochemical actuator. <i>ACS Nano</i> , <b>2010</b> , 4, 6050-4	16.7	219
591	Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers M.G. is grateful for a joint scholarship from Wollongong University and CSIRO; S.H. and L.D. thank the support from the Department of Industry, Science, and Technology (DIST), Australia; R.P.G. and Z.L.W. thank the support of US NSF grants (DMR-9733160), and the NSF of China. <i>Angewandte</i>	16.4	218
590	Porous Core-Shell Fe <sub>3</sub> C Embedded N-doped Carbon Nanofibers as an Effective Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4118-25	9.5	210
589	Novel benzo[1,2-b:4,5-b']dithiophene-benzothiadiazole derivatives with variable side chains for high-performance solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 4554-8	24	210
588	Efficiently photo-charging lithium-ion battery by perovskite solar cell. <i>Nature Communications</i> , <b>2015</b> , 6, 8103	17.4	208
587	Functionalization of Graphene Oxide with Polyhedral Oligomeric Silsesquioxane (POSS) for Multifunctional Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1607-12	6.4	206
586	Can silver nanoparticles be useful as potential biological labels?. <i>Nanotechnology</i> , <b>2008</b> , 19, 235104	3.4	202
585	Highly Rechargeable Lithium-CO Batteries with a Boron- and Nitrogen-Codoped Holey-Graphene Cathode. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6970-6974	16.4	198
584	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702007	24	196
583	Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 1113-8	6.4	195
582	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
581	Functional graphene nanomesh foam. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1913	35.4	192
580	Sulfur-graphene nanostructured cathodes via ball-milling for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 10920-30	16.7	192

579	Electrospun polymer nanofiber sensors. <i>Synthetic Metals</i> , <b>2005</b> , 154, 37-40	3.6	192
578	Shape/size-controlled syntheses of metal nanoparticles for site-selective modification of carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5523-32	16.4	192
577	Highly Efficient Binding of DNA on the Sidewalls and Tips of Carbon Nanotubes Using Photochemistry. <i>Nano Letters</i> , <b>2004</b> , 4, 89-93	11.5	192
576	Cathode materials for next generation lithium ion batteries. <i>Nano Energy</i> , <b>2013</b> , 2, 439-442	17.1	191
575	Preferential syntheses of semiconducting vertically aligned single-walled carbon nanotubes for direct use in FETs. <i>Nano Letters</i> , <b>2008</b> , 8, 2682-7	11.5	187
574	N,P-Codoped Carbon Networks as Efficient Metal-free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2270-2274	3.6	185
573	DNA-directed self-assembling of carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14-5	16.4	184
572	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
571	Gecko-Foot-Mimetic Aligned Single-Walled Carbon Nanotube Dry Adhesives with Unique Electrical and Thermal Properties. <i>Advanced Materials</i> , <b>2007</b> , 19, 3844-3849	24	182
570	Chemistry of Carbon Nanotubes. <i>Australian Journal of Chemistry</i> , <b>2003</b> , 56, 635	1.2	181
569	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. <i>Scientific Reports</i> , <b>2013</b> , 3, 2260	4.9	179
568	Carbon nanomaterials as metal-free catalysts in next generation fuel cells. <i>Nano Energy</i> , <b>2012</b> , 1, 514-517	17.1	176
567	Vertically aligned BCN nanotubes with high capacitance. <i>ACS Nano</i> , <b>2012</b> , 6, 5259-65	16.7	172
566	Aligned nanotubes. <i>ChemPhysChem</i> , <b>2003</b> , 4, 1150-69	3.2	172
565	Self-assembly of gold nanoparticles to carbon nanotubes using a thiol-terminated pyrene as interlinker. <i>Chemical Physics Letters</i> , <b>2003</b> , 367, 747-752	2.5	169
564	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
563	Graphene oxide derivatives as hole- and electron-extraction layers for high-performance polymer solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1297-1306	35.4	163
562	Carbon Nanotubols from Mechanochemical Reaction. <i>Nano Letters</i> , <b>2003</b> , 3, 29-32	11.5	163



561	Well-defined two dimensional covalent organic polymers: rational design, controlled syntheses, and potential applications. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 1896-1911	4.9	162
560	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3987-3992	9.6	161
559	Nanodiamonds for nanomedicine. <i>Nanomedicine</i> , <b>2009</b> , 4, 207-18	5.6	161
558	PVK-Modified Single-Walled Carbon Nanotubes with Effective Photoinduced Electron Transfer. <i>Macromolecules</i> , <b>2003</b> , 36, 6286-6288	5.5	161
557	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
556	Oxidizing metal ions with graphene oxide: the in situ formation of magnetic nanoparticles on self-reduced graphene sheets for multifunctional applications. <i>Chemical Communications</i> , <b>2011</b> , 47, 11689-91	5.8	158
555	Sensors and sensor arrays based on conjugated polymers and carbon nanotubes. <i>Pure and Applied Chemistry</i> , <b>2002</b> , 74, 1753-1772	2.1	158
554	Electrocatalysis for CO conversion: from fundamentals to value-added products. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 4993-5061	58.5	157
553	Nanomechanics of individual carbon nanotubes from pyrolytically grown arrays. <i>Physical Review Letters</i> , <b>2000</b> , 85, 622-5	7.4	155
552	Rationally designed graphene-nanotube 3D architectures with a seamless nodal junction for efficient energy conversion and storage. <i>Science Advances</i> , <b>2015</b> , 1, e1400198	14.3	152
551	Novel quinoxaline-based organic sensitizers for dye-sensitized solar cells. <i>Organic Letters</i> , <b>2011</b> , 13, 3880-3	6.2	152
550	BCN Graphene as Efficient Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4285-4288	3.6	151
549	Determination of end-adsorbed polymer density profiles by neutron reflectometry. <i>Macromolecules</i> , <b>1992</b> , 25, 434-439	5.5	151
548	Zigzag carbon as efficient and stable oxygen reduction electrocatalyst for proton exchange membrane fuel cells. <i>Nature Communications</i> , <b>2018</b> , 9, 3819	17.4	151
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4 <sup>17</sup>	Length dependent foam-like mechanical response of axially indented vertically oriented carbon nanotube arrays. <i>Carbon</i> , <b>2011</b> , 49, 386-397	10.4	62
4 <sup>16</sup>	Enhancement of through-thickness thermal conductivity in adhesively bonded joints using aligned carbon nanotubes. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 658-665	8.6	62
4 <sup>15</sup>	Multiwalled carbon nanotubes for flow-induced voltage generation. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 064312	2.5	61
4 <sup>14</sup>	Nitrogen-Doped Graphene Foams as Metal-Free Counter Electrodes in High-Performance Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12290-12293	3.6	60
4 <sup>13</sup>	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
4 <sup>12</sup>	In situ SEM observation of column-like and foam-like CNT array nanoindentation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 648-53	9.5	59
4 <sup>11</sup>	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
4 <sup>10</sup>	Light-controlled single-walled carbon nanotube dispersions in aqueous solution. <i>Langmuir</i> , <b>2008</b> , 24, 9233-6	4	57
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