Yuliang Li

List of Publications by Year
in descending order

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318	29,466	3721 89	5519 163
papers	citations	h-index	g-index

333	333	333	18190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Architecture of graphdiyne nanoscale films. Chemical Communications, 2010, 46, 3256.	2.2	2,210
2	Graphdiyne and graphyne: from theoretical predictions to practical construction. Chemical Society Reviews, 2014, 43, 2572.	18.7	935
3	Electronic Structure and Carrier Mobility in Graphdiyne Sheet and Nanoribbons: Theoretical Predictions. ACS Nano, 2011, 5, 2593-2600.	7.3	833
4	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. Nature Communications, 2018, 9, 1460.	5.8	781
5	Progress in Research into 2D Graphdiyne-Based Materials. Chemical Reviews, 2018, 118, 7744-7803.	23.0	745
6	Few-layer graphdiyne doped with sp-hybridized nitrogen atoms at acetylenic sites for oxygen reduction electrocatalysis. Nature Chemistry, 2018, 10, 924-931.	6.6	558
7	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. Journal of the American Chemical Society, 2015, 137, 7596-7599.	6.6	484
8	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. Journal of the American Chemical Society, 2019, 141, 10677-10683.	6.6	474
9	Selectively nitrogen-doped carbon materials as superior metal-free catalysts for oxygen reduction. Nature Communications, 2018, 9, 3376.	5.8	436
10	Photocatalytic Properties of Graphdiyne and Graphene Modified TiO₂: From Theory to Experiment. ACS Nano, 2013, 7, 1504-1512.	7.3	434
11	Synthesis and Properties of 2D Carbonâ€"Graphdiyne. Accounts of Chemical Research, 2017, 50, 2470-2478.	7.6	420
12	Self-Assembly of Intramolecular Charge-Transfer Compounds into Functional Molecular Systems. Accounts of Chemical Research, 2014, 47, 1186-1198.	7.6	417
13	Aggregate Nanostructures of Organic Molecular Materials. Accounts of Chemical Research, 2010, 43, 1496-1508.	7.6	362
14	Hydrogen substituted graphdiyne as carbon-rich flexible electrode for lithium and sodium ion batteries. Nature Communications, 2017, 8, 1172.	5.8	357
15	Graphdiyne Oxides as Excellent Substrate for Electroless Deposition of Pd Clusters with High Catalytic Activity. Journal of the American Chemical Society, 2015, 137, 5260-5263.	6.6	341
16	Highly Efficient Electron Transport Obtained by Doping PCBM with Graphdiyne in Planar-Heterojunction Perovskite Solar Cells. Nano Letters, 2015, 15, 2756-2762.	4.5	338
17	Graphdiyne for high capacity and long-life lithium storage. Nano Energy, 2015, 11, 481-489.	8.2	315
18	Graphdiyne Derivative as Multifunctional Solid Additive in Binary Organic Solar Cells with 17.3% Efficiency and High Reproductivity. Advanced Materials, 2020, 32, e1907604.	11.1	309

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19	Quasiparticle energies and excitonic effects of the two-dimensional carbon allotrope graphdiyne: Theory and experiment. Physical Review B, 2011, 84, .	1.1	305
20	Construction of Tubular Molecule Aggregations of Graphdiyne for Highly Efficient Field Emission. Journal of Physical Chemistry C, 2011, 115, 2611-2615.	1.5	298
21	A Novel and Highly Efficient Photocatalyst Based on P25â€“Graphdiyne Nanocomposite. Small, 2012, 8, 265-271.	5.2	289
22	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. Nature Communications, 2018, 9, 5309.	5.8	287
23	Efficient CH₃NH₃PbI₃ Perovskite Solar Cells Based on Graphdiyne (GD)â€Modified P3HT Holeâ€Transporting Material. Advanced Energy Materials, 2015, 5, 1401943.	10.2	282
24	High-performance graphdiyne-based electrochemical actuators. Nature Communications, 2018, 9, 752.	5.8	268
25	Graphdiyne:ZnO Nanocomposites for Highâ€Performance UV Photodetectors. Advanced Materials, 2016, 28, 3697-3702.	11.1	258
26	Ultrathin Graphdiyne Nanosheets Grown Inâ€…Situ on Copper Nanowires and Their Performance as Lithiumâ€Ion Battery Anodes. Angewandte Chemie - International Edition, 2018, 57, 774-778.	7.2	257
27	High Conductive Two-Dimensional Covalent Organic Framework for Lithium Storage with Large Capacity. ACS Applied Materials & Interfaces, 2016, 8, 5366-5375.	4.0	255
28	Lowâ€Temperature Growth of Allâ€Carbon Graphdiyne on a Silicon Anode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1801459.	11.1	250
29	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. Nanoscale, 2014, 6, 11336-11343.	2.8	229
30	Field Emission Properties of Large-Area Nanowires of Organic Charge-Transfer Complexes. Journal of the American Chemical Society, 2005, 127, 1120-1121.	6.6	228
31	2D graphdiyne: an emerging carbon material. Chemical Society Reviews, 2022, 51, 2681-2709.	18.7	225
32	Graphdiyne and its Assembly Architectures: Synthesis, Functionalization, and Applications. Advanced Materials, 2019, 31, e1803101.	11.1	214
33	Imaging As-Grown [60]Fullerene Nanotubes by Template Technique. Journal of the American Chemical Society, 2002, 124, 13370-13371.	6.6	210
34	Construction of graphdiyne nanowires with high-conductivity and mobility. Dalton Transactions, 2012, 41, 730-733.	1.6	207
35	Synthesis of Chlorineâ€Substituted Graphdiyne and Applications for Lithiumâ€Ion Storage. Angewandte Chemie - International Edition, 2017, 56, 10740-10745.	7.2	206
36	Fluorescent Conjugated Polyelectrolytes for Biomacromolecule Detection. Advanced Materials, 2008, 20, 2959-2964.	11.1	201

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37	Fewâ€Layer Graphdiyne Nanosheets Applied for Multiplexed Realâ€Time DNA Detection. Advanced Materials, 2017, 29, 1606755.	11.1	198
38	Graphdiyneâ€Supported NiCo₂S₄ Nanowires: A Highly Active and Stable 3D Bifunctional Electrode Material. Small, 2017, 13, 1700936.	5.2	194
39	A Reversible and Highly Selective Fluorescent Sensor for Mercury(II) Using Poly(thiophene)s that Contain Thymine Moieties. Macromolecular Rapid Communications, 2006, 27, 389-392.	2.0	192
40	Emerging Electrochemical Energy Applications of Graphdiyne. Joule, 2019, 3, 899-903.	11.7	192
41	Construction of heterostructure materials toward functionality. Chemical Society Reviews, 2011, 40, 4506.	18.7	191
42	Graphdiyne applied for lithium-ion capacitors displaying high power and energy densities. Nano Energy, 2016, 22, 615-622.	8.2	190
43	Nitrogen-Doped Graphdiyne Applied for Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 8467-8473.	4.0	184
44	N-doped graphdiyne for high-performance electrochemical electrodes. Nano Energy, 2018, 44, 144-154.	8.2	182
45	A New Graphdiyne Nanosheet/Pt Nanoparticleâ€Based Counter Electrode Material with Enhanced Catalytic Activity for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500296.	10.2	180
46	Bulk graphdiyne powder applied for highly efficient lithium storage. Chemical Communications, 2015, 51, 1834-1837.	2.2	178
47	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. Angewandte Chemie - International Edition, 2021, 60, 3170-3174.	7.2	174
48	Graphdiyne: An Efficient Hole Transporter for Stable Highâ€Performance Colloidal Quantum Dot Solar Cells. Advanced Functional Materials, 2016, 26, 5284-5289.	7.8	172
49	Synthesis and Electronic Structure of Boronâ€Graphdiyne with an spâ€Hybridized Carbon Skeleton and Its Application in Sodium Storage. Angewandte Chemie - International Edition, 2018, 57, 3968-3973.	7.2	166
50	Synthesis of Organic One-Dimensional Nanomaterials by Solid-Phase Reaction. Journal of the American Chemical Society, 2003, 125, 10794-10795.	6.6	163
51	Light-Controlled Organic/Inorganic Pâˆ'N Junction Nanowires. Journal of the American Chemical Society, 2008, 130, 9198-9199.	6.6	162
52	Carbon Atom Hybridization Matters: Ultrafast Humidity Response of Graphdiyne Oxides. Angewandte Chemie - International Edition, 2018, 57, 3922-3926.	7.2	159
53	Efficient Hydrogen Production on a 3D Flexible Heterojunction Material. Advanced Materials, 2018, 30, e1707082.	11.1	158
54	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. Angewandte Chemie - International Edition, 2020, 59, 13021-13027.	7.2	154

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55	Self-catalyzed growth of Cu@graphdiyne coreâ€“shell nanowires array for high efficient hydrogen evolution cathode. Nano Energy, 2016, 30, 858-866.	8.2	149
56	Graphdiyne Materials as Nanotransducer for in Vivo Photoacoustic Imaging and Photothermal Therapy of Tumor. Chemistry of Materials, 2017, 29, 6087-6094.	3.2	149
57	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. IScience, 2019, 11, 31-41.	1.9	149
58	Fluoride graphdiyne as a free-standing electrode displaying ultra-stable and extraordinary high Li storage performance. Energy and Environmental Science, 2018, 11, 2893-2903.	15.6	146
59	Synthesis and Applications of Graphdiyneâ€Based Metalâ€Free Catalysts. Advanced Materials, 2019, 31, e1803762.	11.1	143
60	A facile approach for graphdiyne preparation under atmosphere for an advanced battery anode. Chemical Communications, 2017, 53, 8074-8077.	2.2	142
61	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. Journal of Materials Chemistry A, 2016, 4, 4738-4744.	5.2	139
62	Fundament and Application of Graphdiyne in Electrochemical Energy. Accounts of Chemical Research, 2020, 53, 459-469.	7.6	139
63	Morphology Transition and Aggregation-Induced Emission of an Intramolecular Charge-Transfer Compound. Langmuir, 2008, 24, 4231-4237.	1.6	137
64	Graphdiyneâ€Based Materials: Preparation and Application for Electrochemical Energy Storage. Advanced Materials, 2019, 31, e1803202.	11.1	136
65	Improved electron transport in MAPbI3 perovskite solar cells based on dual doping graphdiyne. Nano Energy, 2018, 46, 331-337.	8.2	135
66	Assembled Organic/Inorganic pâˆ’n Junction Interface and Photovoltaic Cell on a Single Nanowire. Journal of Physical Chemistry Letters, 2010, 1, 327-330.	2.1	134
67	Selfâ€Assembly of Functional Molecules into 1D Crystalline Nanostructures. Advanced Materials, 2015, 27, 985-1013.	11.1	130
68	Graphdiyne Nanosheet-Based Drug Delivery Platform for Photothermal/Chemotherapy Combination Treatment of Cancer. ACS Applied Materials & Interfaces, 2018, 10, 8436-8442.	4.0	130
69	Self-catalyzed Growth of Large-Area Nanofilms of Two-Dimensional Carbon. Scientific Reports, 2015, 5, 7756.	1.6	129
70	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. Nano Energy, 2018, 43, 47-54.	8.2	126
71	Extraordinarily Durable Graphdiyne-Supported Electrocatalyst with High Activity for Hydrogen Production at All Values of pH. ACS Applied Materials & Interfaces, 2016, 8, 31083-31091.	4.0	125
72	Graphdiyne-WS2 2D-Nanohybrid electrocatalysts for high-performance hydrogen evolution reaction. Carbon, 2018, 129, 228-235.	5.4	124

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73	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	124
74	2D graphdiyne materials: challenges and opportunities in energy field. Science China Chemistry, 2018, 61, 765-786.	4.2	123
75	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie - International Edition, 2019, 58, 13897-13903.	7.2	123
76	Fabrication of Polydiacetylene Nanowires by Associated Self-Polymerization and Self-Assembly Processes for Efficient Field Emission Properties. Journal of the American Chemical Society, 2005, 127, 12452-12453.	6.6	119
77	Selfâ€Assembled Organic Microfibers for Nonlinear Optics. Advanced Materials, 2013, 25, 2084-2089.	11.1	119
78	Controlled Growth of MoS₂ Nanosheets on 2D Nâ€Doped Graphdiyne Nanolayers for Highly Associated Effects on Water Reduction. Advanced Functional Materials, 2018, 28, 1707564.	7.8	119
79	Graphdiyne: a superior carbon additive to boost the activity of water oxidation catalysts. Nanoscale Horizons, 2018, 3, 317-326.	4.1	116
80	Graphdiyne oxide as a platform for fluorescence sensing. Chemical Communications, 2016, 52, 5629-5632.	2.2	115
81	Graphdiyne Nanoparticles with High Free Radical Scavenging Activity for Radiation Protection. ACS Applied Materials & Interfaces, 2019, 11, 2579-2590.	4.0	115
82	Ordered Nanosphere Alignment of Porphyrin for the Improvement of Nonlinear Optical Properties. Advanced Materials, 2010, 22, 3532-3536.	11.1	110
83	Graphdiyne as a Host Active Material for Perovskite Solar Cell Application. Nano Letters, 2018, 18, 6941-6947.	4.5	110
84	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. National Science Review, 2021, 8, nwaa213.	4.6	110
85	Influence of Small Molecules in Conducting Polyaniline on the Photovoltaic Properties of Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2004, 108, 18693-18697.	1.2	103
86	Fabrication of Lowâ€Dimension Nanostructures Based on Organic Conjugated Molecules. Advanced Materials, 2008, 20, 2918-2925.	11.1	102
87	Multifunctional Singleâ€Crystallized Carbonate Hydroxides as Highly Efficient Electrocatalyst for Full Water splitting. Advanced Energy Materials, 2018, 8, 1800175.	10.2	101
88	Direct imaging and determination of the crystal structure of six-layered graphdiyne. Nano Research, 2018, 11, 1714-1721.	5.8	100
89	Accelerating Atomic Catalyst Discovery by Theoretical Calculationsâ€Machine Learning Strategy. Advanced Energy Materials, 2020, 10, 1903949.	10.2	99
90	Flexible Organic Solar Cells: Progress and Challenges. Small Science, 2021, 1, 2100001.	5.8	94

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91	Low temperature, atmospheric pressure for synthesis of a new carbon Ene-yne and application in Li storage. Nano Energy, 2017, 33, 343-349.	8.2	92
92	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. Nano Energy, 2020, 72, 104667.	8.2	91
93	Largeâ€Area Aminatedâ€Graphdiyne Thin Films for Direct Methanol Fuel Cells. Angewandte Chemie - International Edition, 2019, 58, 15010-15015.	7.2	88
94	Highly Dispersed Platinum Chlorine Atoms Anchored on Gold Quantum Dots for a Highly Efficient Electrocatalyst. Journal of the American Chemical Society, 2022, 144, 1921-1928.	6.6	88
95	Immobilized Ferrous Ion and Glucose Oxidase on Graphdiyne and Its Application on One-Step Glucose Detection. ACS Applied Materials & Interfaces, 2019, 11, 2647-2654.	4.0	86
96	Graphdiyne Sponge for Direct Collection of Oils from Water. ACS Applied Materials & Interfaces, 2019, 11, 2591-2598.	4.0	85
97	In-situ constructing 3D graphdiyne as all-carbon binder for high-performance silicon anode. Nano Energy, 2018, 53, 135-143.	8.2	81
98	Highâ€Yield and Damageâ€free Exfoliation of Layered Graphdiyne in Aqueous Phase. Angewandte Chemie - International Edition, 2019, 58, 746-750.	7.2	79
99	Graphdiyne:Structure of Fluorescent Quantum Dots. Angewandte Chemie - International Edition, 2020, 59, 16712-16716.	7.2	79
100	In situ growth of graphdiyne based heterostructure: Toward efficient overall water splitting. Nano Energy, 2019, 59, 591-597.	8.2	78
101	The effect of graphdiyne doping on the performance of polymer solar cells. Synthetic Metals, 2011, 161, 2055-2057.	2.1	77
102	Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. Advanced Functional Materials, 2016, 26, 8968-8977.	7.8	77
103	Graphdiyne Quantum Dots for Much Improved Stability and Efficiency of Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1701117.	1.9	76
104	Graphdiyne-templated palladium-nanoparticle assembly as a robust oxygen generator to attenuate tumor hypoxia. Nano Today, 2020, 34, 100907.	6.2	75
105	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. Advanced Materials, 2020, 32, e2004379.	11.1	74
106	Ultrathin Graphdiyne-Wrapped Iron Carbonate Hydroxide Nanosheets toward Efficient Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 2618-2625.	4.0	73
107	Fluorescence ratiometric assays of hydrogen peroxide and glucose in serum using conjugated polyelectrolytes. Journal of Materials Chemistry, 2007, 17, 3702.	6.7	72
108	In Situ Coating Graphdiyne for Highâ€Energyâ€Density and Stable Organic Cathodes. Advanced Materials, 2020, 32, e2000140.	11.1	72

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109	Efficient tuning nonlinear optical properties: Synthesis and characterization of a series of novel poly(aryleneethynylene)s coâ€containing BODIPY. Journal of Polymer Science Part A, 2008, 46, 7401-7410.	2.5	71
110	Controllable Synthesis of Graphdiyne Nanoribbons. Angewandte Chemie - International Edition, 2020, 59, 4908-4913.	7.2	71
111	Graphdiyneâ€Based Bulk Heterojunction for Efficient and Moistureâ€Stable Planar Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1802012.	10.2	70
112	Asymmetric and Symmetric Dipoleâ^'Dipole Interactions Drive Distinct Aggregation and Emission Behavior of Intramolecular Charge-Transfer Molecules. Journal of Physical Chemistry C, 2009, 113, 5924-5932.	1.5	68
113	Architecture and properties of a novel two-dimensional carbon material-graphtetrayne. Nano Energy, 2018, 43, 192-199.	8.2	68
114	Ultraâ€light Hierarchical Graphene Electrode for Binderâ€Free Supercapacitors and Lithiumâ€Ion Battery Anodes. Small, 2015, 11, 4922-4930.	5.2	67
115	Graphdiyne as Electrode Material: Tuning Electronic State and Surface Chemistry for Improved Electrode Reactivity. Analytical Chemistry, 2017, 89, 13008-13015.	3.2	67
116	Graphdiyne-based flexible respiration sensors for monitoring human health. Nano Today, 2021, 39, 101214.	6.2	66
117	Donorâ€“acceptor molecules based on benzothiadiazole: Synthesis, X-ray crystal structures, linear and third-order nonlinear optical properties. Dyes and Pigments, 2016, 125, 100-105.	2.0	64
118	Graphdiyne-Promoted Highly Efficient Photocatalytic Activity of Graphdiyne/Silver Phosphate Pickering Emulsion Under Visible-Light Irradiation. ACS Applied Materials & Interfaces, 2019, 11, 2684-2691.	4.0	64
119	Mapping of atomic catalyst on graphdiyne. Nano Energy, 2019, 62, 754-763.	8.2	64
120	The Underlying Function and Structural Organization of the Intracellular Protein Corona on Graphdiyne Oxide Nanosheet for Local Immunomodulation. Nano Letters, 2021, 21, 6005-6013.	4.5	63
121	Pristine graphdiyne-hybridized photocatalysts using graphene oxide as a dual-functional coupling reagent. Physical Chemistry Chemical Physics, 2015, 17, 1217-1225.	1.3	62
122	A method for controlling the synthesis of stable twisted two-dimensional conjugated molecules. Nature Communications, 2016, 7, 11637.	5.8	60
123	Direct Synthesis of Crystalline Graphdiyne Analogue Based on Supramolecular Interactions. Journal of the American Chemical Society, 2019, 141, 48-52.	6.6	60
124	A Universal Strategy for Constructing Seamless Graphdiyne on Metal Oxides to Stabilize the Electrochemical Structure and Interface. Advanced Materials, 2019, 31, e1806272.	11.1	59
125	Rationally engineered active sites for efficient and durable hydrogen generation. Nature Communications, 2019, 10, 2281.	5.8	59
126	Efficient hydrogen generation on graphdiyne-based heterostructure. Nano Energy, 2019, 55, 135-142.	8.2	59

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127	Comparisons between Graphene Oxide and Graphdiyne Oxide in Physicochemistry Biology and Cytotoxicity. ACS Applied Materials & Interfaces, 2018, 10, 32946-32954.	4.0	58
128	2D Graphdiyne Oxide Serves as a Superior New Generation of Antibacterial Agents. IScience, 2019, 19, 662-675.	1.9	58
129	Ultrafastly Interweaving Graphdiyne Nanochain on Arbitrary Substrates and Its Performance as a Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2019, 11, 2599-2607.	4.0	58
130	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. Biomaterials, 2020, 244, 119940.	5.7	58
131	Selfâ€Validated Machine Learning Study of Graphdiyneâ€Based Dual Atomic Catalyst. Advanced Energy Materials, 2021, 11, 2003796.	10.2	57
132	Graphdiyne Oxideâ€Based Highâ€Performance Rechargeable Aqueous Znâ€“MnO₂ Battery. Advanced Functional Materials, 2020, 30, 2004115.	7.8	56
133	Acidic Water Oxidation on Quantum Dots of IrO_x/Graphdiyne. Advanced Energy Materials, 2021, 11, 2101138.	10.2	54
134	Photocurrent Generation in Multilayer Self-Assembly Films Fabricated from Water-Soluble Poly(phenylene vinylene). Chemistry - A European Journal, 2003, 9, 6031-6038.	1.7	53
135	Synthesis of Chlorineâ€Substituted Graphdiyne and Applications for Lithiumâ€Ion Storage. Angewandte Chemie, 2017, 129, 10880-10885.	1.6	52
136	Graphdiyne nanostructure for high-performance lithium-sulfur batteries. Nano Energy, 2020, 68, 104307.	8.2	51
137	Fluorescence Turn-On Detection of Nitric Oxide in Aqueous Solution Using Cationic Conjugated Polyelectrolytes. Macromolecular Rapid Communications, 2007, 28, 241-245.	2.0	50
138	Photoinduced Electrocatalysis on 3D Flexible OsO_x Quantum Dots. Advanced Energy Materials, 2021, 11, 2100234.	10.2	50
139	A New Class of Conjugated Polymers Having Porphyrin, Poly(p-phenylenevinylene), and Fullerene Units for Efficient Electron Transfer. Macromolecules, 2006, 39, 5319-5325.	2.2	49
140	Unique structural advances of graphdiyne for energy applications. EnergyChem, 2020, 2, 100041.	10.1	48
141	1D Nanowire Heterojunction Electrocatalysts of MnCo₂O₄/GDY for Efficient Overall Water Splitting. Advanced Functional Materials, 2022, 32, .	7.8	48
142	Aggregation-induced emission on benzothiadiazole dyads with large third-order optical nonlinearity. Physical Chemistry Chemical Physics, 2013, 15, 12660.	1.3	47
143	Application of â€œClickâ€•Chemistry to the Construction of Supramolecular Functional Systems. Asian Journal of Organic Chemistry, 2014, 3, 582-602.	1.3	47
144	Synthesis and Electronic Structure of Boronâ€Graphdiyne with an spâ€Hybridized Carbon Skeleton and Its Application in Sodium Storage. Angewandte Chemie, 2018, 130, 4032-4037.	1.6	47

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145	Porous graphdiyne loading CoOx quantum dots for fixation nitrogen reaction. Nano Energy, 2021, 89, 106333.	8.2	47
146	Controlled Growth Interface of Charge Transfer Salts of Nickel-7,7,8,8-Tetracyanoquinodimethane on Surface of Graphdiyne. CCS Chemistry, 2023, 5, 971-981.	4.6	47
147	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. Angewandte Chemie, 2021, 133, 3207-3211.	1.6	46
148	Selfâ€Expanding Ionâ€Transport Channels on Anodes for Fastâ€Charging Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, e202113313.	7.2	46
149	Intrinsic magnetism of graphdiyne. Applied Physics Letters, 2017, 111, .	1.5	45
150	How functional groups change the electronic structure of graphdiyne: Theory and experiment. Carbon, 2017, 123, 1-6.	5.4	45
151	Graphdiyne with tunable activity towards hydrogen evolution reaction. Nano Energy, 2019, 63, 103874.	8.2	44
152	Graphdiyne-engineered heterostructures for efficient overall water-splitting. Nano Energy, 2019, 64, 103928.	8.2	43
153	In situ synthesis of a Prussian blue nanoparticles/graphdiyne oxide nanocomposite with high stability and electrocatalytic activity. Electrochemistry Communications, 2017, 83, 96-101.	2.3	42
154	Ultrathin Graphdiyne Nanosheets Grown Inâ€…Situ on Copper Nanowires and Their Performance as Lithiumâ€Ion Battery Anodes. Angewandte Chemie, 2018, 130, 782-786.	1.6	41
155	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. ChemPhysChem, 2020, 21, 2145-2149.	1.0	40
156	Controlling growth of molecular crystal aggregates for efficient optical waveguides. Chemical Communications, 2012, 48, 9011.	2.2	39
157	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. Advanced Optical Materials, 2015, 3, 948-956.	3.6	39
158	The interaction between conjugated polymer and fullerenes. Journal of Applied Polymer Science, 1998, 70, 599-603.	1.3	38
159	Synthesis and Characterization of 3,5-Bis(2-hydroxyphenyl)-1,2,4-triazole Functionalized Tetraaryloxy Perylene Bisimide and Metal-Directed Self-Assembly. Journal of Organic Chemistry, 2005, 70, 9686-9692.	1.7	38
160	Synthesis of a novel poly(paraâ€phenylene ethynylene) for highly selective and sensitive sensing mercury (II) ions. Journal of Polymer Science Part A, 2008, 46, 1998-2007.	2.5	38
161	Induced Ferromagnetic Order of Graphdiyne Semiconductors by Introducing a Heteroatom. ACS Central Science, 2020, 6, 950-958.	5.3	38
162	Selfâ€assembly and tunable optical properties of intramolecular charge transfer molecules. Aggregate, 2020, 1, 57-68.	5.2	37

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163	Carbon Atom Hybridization Matters: Ultrafast Humidity Response of Graphdiyne Oxides. Angewandte Chemie, 2018, 130, 3986-3990.	1.6	36
164	Efficient Hydrogen Evolution on Nanoscale Graphdiyne. Small, 2021, 17, e2006136.	5.2	36
165	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. Advanced Functional Materials, 2021, 31, 2010112.	7.8	35
166	Porous 3D Siliconâ€Diamondyne Blooms Excellent Storage and Diffusion Properties for Li, Na, and K Ions. Advanced Energy Materials, 2021, 11, 2101197.	10.2	35
167	Design and self-assembly of advanced functional molecular materials—from low dimension to multi-dimension. Scientia Sinica Chimica, 2017, 47, 1045-1056.	0.2	35
168	Chemical Modification and Functionalization of Graphdiyne. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2018, 34, 992-1013.	2.2	35
169	A new carbon allotrope: graphdiyne. Trends in Chemistry, 2022, 4, 754-768.	4.4	35
170	Strong Chargeâ€Transfer Chromophores from [2+2] Cycloadditions of TCNE and TCNQ to Peripheral Donorâ€Substituted Alkynes. European Journal of Organic Chemistry, 2011, 2011, 6445-6451.	1.2	34
171	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie, 2019, 131, 14035-14041.	1.6	34
172	Chemical modification: Toward solubility and processability of graphdiyne. Nano Energy, 2019, 64, 103932.	8.2	34
173	Graphdiyne: The Fundamentals and Application of an Emerging Carbon Material. Advanced Materials, 2019, 31, e1904885.	11.1	33
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