

Yuliang Li

List of Publications by Citations

Source: <https://exaly.com/author-pdf/133562/yuliang-li-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

306
papers

21,230
citations

78
h-index

140
g-index

333
ext. papers

25,242
ext. citations

11.4
avg, IF

7.34
L-index

#	Paper	IF	Citations
306	Architecture of graphdiyne nanoscale films. <i>Chemical Communications</i> , 2010 , 46, 3256-8	5.8	1651
305	Graphdiyne and graphyne: from theoretical predictions to practical construction. <i>Chemical Society Reviews</i> , 2014 , 43, 2572-86	58.5	726
304	Electronic structure and carrier mobility in graphdiyne sheet and nanoribbons: theoretical predictions. <i>ACS Nano</i> , 2011 , 5, 2593-600	16.7	697
303	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 1460	17.4	538
302	Progress in Research into 2D Graphdiyne-Based Materials. <i>Chemical Reviews</i> , 2018 , 118, 7744-7803	68.1	499
301	Few-layer graphdiyne doped with sp-hybridized nitrogen atoms at acetylenic sites for oxygen reduction electrocatalysis. <i>Nature Chemistry</i> , 2018 , 10, 924-931	17.6	379
300	Photocatalytic properties of graphdiyne and graphene modified TiO ₂ from theory to experiment. <i>ACS Nano</i> , 2013 , 7, 1504-12	16.7	373
299	Self-assembly of intramolecular charge-transfer compounds into functional molecular systems. <i>Accounts of Chemical Research</i> , 2014 , 47, 1186-98	24.3	355
298	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7596-9	16.4	350
297	Aggregate nanostructures of organic molecular materials. <i>Accounts of Chemical Research</i> , 2010 , 43, 1496-1508	24.3	349
296	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10677-10683	16.4	309
295	Synthesis and Properties of 2D Carbon-Graphdiyne. <i>Accounts of Chemical Research</i> , 2017 , 50, 2470-2478	24.3	308
294	Highly efficient electron transport obtained by doping PCBM with graphdiyne in planar-heterojunction perovskite solar cells. <i>Nano Letters</i> , 2015 , 15, 2756-62	11.5	286
293	Graphdiyne oxides as excellent substrate for electroless deposition of Pd clusters with high catalytic activity. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5260-3	16.4	272
292	Selectively nitrogen-doped carbon materials as superior metal-free catalysts for oxygen reduction. <i>Nature Communications</i> , 2018 , 9, 3376	17.4	267
291	Graphdiyne for high capacity and long-life lithium storage. <i>Nano Energy</i> , 2015 , 11, 481-489	17.1	262
290	Construction of Tubular Molecule Aggregations of Graphdiyne for Highly Efficient Field Emission. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2611-2615	3.8	256

289	Hydrogen substituted graphdiyne as carbon-rich flexible electrode for lithium and sodium ion batteries. <i>Nature Communications</i> , 2017 , 8, 1172	17.4	255
288	A novel and highly efficient photocatalyst based on P25-graphdiyne nanocomposite. <i>Small</i> , 2012 , 8, 265-71		248
287	Quasiparticle energies and excitonic effects of the two-dimensional carbon allotrope graphdiyne: Theory and experiment. <i>Physical Review B</i> , 2011 , 84,	3.3	246
286	Graphdiyne Derivative as Multifunctional Solid Additive in Binary Organic Solar Cells with 17.3% Efficiency and High Reproducibility. <i>Advanced Materials</i> , 2020 , 32, e1907604	24	245
285	Efficient CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Based on Graphdiyne (GD)-Modified P3HT Hole-Transporting Material. <i>Advanced Energy Materials</i> , 2015 , 5, 1401943	21.8	241
284	Field emission properties of large-area nanowires of organic charge-transfer complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1120-1	16.4	217
283	Graphdiyne:ZnO Nanocomposites for High-Performance UV Photodetectors. <i>Advanced Materials</i> , 2016 , 28, 3697-702	24	212
282	Imaging as-grown [60]fullerene nanotubes by template technique. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13370-1	16.4	201
281	Ultrathin Graphdiyne Nanosheets Grown In Situ on Copper Nanowires and Their Performance as Lithium-Ion Battery Anodes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 774-778	16.4	192
280	Low-Temperature Growth of All-Carbon Graphdiyne on a Silicon Anode for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1801459	24	192
279	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. <i>Nanoscale</i> , 2014 , 6, 11336-43	7.7	188
278	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. <i>Nature Communications</i> , 2018 , 9, 5309	17.4	188
277	High-performance graphdiyne-based electrochemical actuators. <i>Nature Communications</i> , 2018 , 9, 752	17.4	183
276	A Reversible and Highly Selective Fluorescent Sensor for Mercury(II) Using Poly(thiophene)s that Contain Thymine Moieties. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 389-392	4.8	181
275	Construction of graphdiyne nanowires with high-conductivity and mobility. <i>Dalton Transactions</i> , 2012 , 41, 730-3	4.3	180
274	High Conductive Two-Dimensional Covalent Organic Framework for Lithium Storage with Large Capacity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5366-75	9.5	177
273	Synthesis of Chlorine-Substituted Graphdiyne and Applications for Lithium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10740-10745	16.4	165
272	Bulk graphdiyne powder applied for highly efficient lithium storage. <i>Chemical Communications</i> , 2015 , 51, 1834-7	5.8	156

271	Graphdiyne applied for lithium-ion capacitors displaying high power and energy densities. <i>Nano Energy</i> , 2016 , 22, 615-622	17.1	155
270	Synthesis of organic one-dimensional nanomaterials by solid-phase reaction. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10794-5	16.4	154
269	Few-Layer Graphdiyne Nanosheets Applied for Multiplexed Real-Time DNA Detection. <i>Advanced Materials</i> , 2017 , 29, 1606755	24	153
268	Construction of heterostructure materials toward functionality. <i>Chemical Society Reviews</i> , 2011 , 40, 4506-4524	9.4	153
267	Nitrogen-Doped Graphdiyne Applied for Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8467-73	9.5	152
266	Light-controlled organic/inorganic P-N junction nanowires. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9198-9	16.4	151
265	A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500296	21.8	149
264	Graphdiyne-Supported NiCo S Nanowires: A Highly Active and Stable 3D Bifunctional Electrode Material. <i>Small</i> , 2017 , 13, 1700936	11	147
263	Graphdiyne: An Efficient Hole Transporter for Stable High-Performance Colloidal Quantum Dot Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 5284-5289	15.6	140
262	Graphdiyne and its Assembly Architectures: Synthesis, Functionalization, and Applications. <i>Advanced Materials</i> , 2019 , 31, e1803101	24	133
261	Assembled Organic/Inorganic p-n Junction Interface and Photovoltaic Cell on a Single Nanowire. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 327-330	6.4	129
260	N-doped graphdiyne for high-performance electrochemical electrodes. <i>Nano Energy</i> , 2018 , 44, 144-154	17.1	129
259	Emerging Electrochemical Energy Applications of Graphdiyne. <i>Joule</i> , 2019 , 3, 899-903	27.8	127
258	Efficient Hydrogen Production on a 3D Flexible Heterojunction Material. <i>Advanced Materials</i> , 2018 , 30, e1707082	24	124
257	Self-catalyzed growth of Cu@graphdiyne core-shell nanowires array for high efficient hydrogen evolution cathode. <i>Nano Energy</i> , 2016 , 30, 858-866	17.1	124
256	Morphology transition and aggregation-induced emission of an intramolecular charge-transfer compound. <i>Langmuir</i> , 2008 , 24, 4231-7	4	117
255	Graphdiyne Materials as Nanotransducer for in Vivo Photoacoustic Imaging and Photothermal Therapy of Tumor. <i>Chemistry of Materials</i> , 2017 , 29, 6087-6094	9.6	115
254	Self-assembly of functional molecules into 1D crystalline nanostructures. <i>Advanced Materials</i> , 2015 , 27, 985-1013	24	114

253	Improved electron transport in MAPbI ₃ perovskite solar cells based on dual doping graphdiyne. <i>Nano Energy</i> , 2018 , 46, 331-337	17.1	113
252	Fabrication of polydiacetylene nanowires by associated self-polymerization and self-assembly processes for efficient field emission properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12452-3	16.4	112
251	Synthesis and Electronic Structure of Boron-Graphdiyne with an sp-Hybridized Carbon Skeleton and Its Application in Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3968-3973	16.4	111
250	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4738-4744	13	109
249	Ordered nanosphere alignment of porphyrin for the improvement of nonlinear optical properties. <i>Advanced Materials</i> , 2010 , 22, 3532-6	24	106
248	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. <i>Nano Energy</i> , 2018 , 43, 47-54	17.1	106
247	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. <i>IScience</i> , 2019 , 11, 31-41	6.1	104
246	Self-catalyzed growth of large-area nanofilms of two-dimensional carbon. <i>Scientific Reports</i> , 2015 , 5, 7756	4.9	102
245	Carbon Atom Hybridization Matters: Ultrafast Humidity Response of Graphdiyne Oxides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3922-3926	16.4	101
244	Extraordinarily Durable Graphdiyne-Supported Electrocatalyst with High Activity for Hydrogen Production at All Values of pH. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31083-31091	9.5	99
243	Self-assembled organic microfibers for nonlinear optics. <i>Advanced Materials</i> , 2013 , 25, 2084-9	24	98
242	Influence of Small Molecules in Conducting Polyaniline on the Photovoltaic Properties of Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18693-18697	3.4	98
241	Graphdiyne: a superior carbon additive to boost the activity of water oxidation catalysts. <i>Nanoscale Horizons</i> , 2018 , 3, 317-326	10.8	97
240	Graphdiyne Nanosheet-Based Drug Delivery Platform for Photothermal/Chemotherapy Combination Treatment of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8436-8442	9.5	96
239	Fluoride graphdiyne as a free-standing electrode displaying ultra-stable and extraordinary high Li storage performance. <i>Energy and Environmental Science</i> , 2018 , 11, 2893-2903	35.4	95
238	A facile approach for graphdiyne preparation under atmosphere for an advanced battery anode. <i>Chemical Communications</i> , 2017 , 53, 8074-8077	5.8	93
237	Graphdiyne-WS ₂ 2D-Nanohybrid electrocatalysts for high-performance hydrogen evolution reaction. <i>Carbon</i> , 2018 , 129, 228-235	10.4	93
236	Graphdiyne oxide as a platform for fluorescence sensing. <i>Chemical Communications</i> , 2016 , 52, 5629-32	5.8	92

235	Synthesis and Applications of Graphdiyne-Based Metal-Free Catalysts. <i>Advanced Materials</i> , 2019 , 31, e1803762	24	92
234	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13021-13027	16.4	89
233	2D graphdiyne materials: challenges and opportunities in energy field. <i>Science China Chemistry</i> , 2018 , 61, 765-786	7.9	89
232	Graphdiyne as a Host Active Material for Perovskite Solar Cell Application. <i>Nano Letters</i> , 2018 , 18, 6941-6947	11.5	84
231	Controlled Growth of MoS ₂ Nanosheets on 2D N-Doped Graphdiyne Nanolayers for Highly Associated Effects on Water Reduction. <i>Advanced Functional Materials</i> , 2018 , 28, 1707564	15.6	82
230	Graphdiyne Nanoparticles with High Free Radical Scavenging Activity for Radiation Protection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2579-2590	9.5	76
229	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3170-3174	16.4	74
228	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13897-13903	16.4	72
227	The effect of graphdiyne doping on the performance of polymer solar cells. <i>Synthetic Metals</i> , 2011 , 161, 2055-2057	3.6	71
226	Graphdiyne-Based Materials: Preparation and Application for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1803202	24	68
225	Multifunctional Single-Crystallized Carbonate Hydroxides as Highly Efficient Electrocatalyst for Full Water splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1800175	21.8	68
224	Fluorescence ratiometric assays of hydrogen peroxide and glucose in serum using conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3702		68
223	Fundament and Application of Graphdiyne in Electrochemical Energy. <i>Accounts of Chemical Research</i> , 2020 , 53, 459-469	24.3	66
222	Low temperature, atmospheric pressure for synthesis of a new carbon Ene-yne and application in Li storage. <i>Nano Energy</i> , 2017 , 33, 343-349	17.1	65
221	Efficient tuning nonlinear optical properties: Synthesis and characterization of a series of novel poly(aryleneethynylene)s co-containing BODIPY. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 7401-7410	2.5	64
220	Direct imaging and determination of the crystal structure of six-layered graphdiyne. <i>Nano Research</i> , 2018 , 11, 1714-1721	10	62
219	In-situ constructing 3D graphdiyne as all-carbon binder for high-performance silicon anode. <i>Nano Energy</i> , 2018 , 53, 135-143	17.1	62
218	Asymmetric and Symmetric Dipole-Dipole Interactions Drive Distinct Aggregation and Emission Behavior of Intramolecular Charge-Transfer Molecules. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5924-5932	3.8	62

217	Graphdiyne Sponge for Direct Collection of Oils from Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2591-2598	9.5	62
216	Graphdiyne Quantum Dots for Much Improved Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701117	4.6	61
215	In situ growth of graphdiyne based heterostructure: Toward efficient overall water splitting. <i>Nano Energy</i> , 2019 , 59, 591-597	17.1	59
214	Ultra-light Hierarchical Graphene Electrode for Binder-Free Supercapacitors and Lithium-Ion Battery Anodes. <i>Small</i> , 2015 , 11, 4922-30	11	58
213	Large-Area Aminated-Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15010-15015	16.4	56
212	Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. <i>Advanced Functional Materials</i> , 2016 , 26, 8968-8977	15.6	56
211	Immobilized Ferrous Ion and Glucose Oxidase on Graphdiyne and Its Application on One-Step Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2647-2654	9.5	56
210	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. <i>Nano Energy</i> , 2020 , 72, 104667	7.1	55
209	Pristine graphdiyne-hybridized photocatalysts using graphene oxide as a dual-functional coupling reagent. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1217-25	3.6	53
208	A method for controlling the synthesis of stable twisted two-dimensional conjugated molecules. <i>Nature Communications</i> , 2016 , 7, 11637	17.4	53
207	Graphdiyne-Based Bulk Heterojunction for Efficient and Moisture-Stable Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1802012	21.8	53
206	Graphdiyne as Electrode Material: Tuning Electronic State and Surface Chemistry for Improved Electrode Reactivity. <i>Analytical Chemistry</i> , 2017 , 89, 13008-13015	7.8	52
205	Photocurrent generation in multilayer self-assembly films fabricated from water-soluble poly(phenylene vinylene). <i>Chemistry - A European Journal</i> , 2003 , 9, 6031-8	4.8	52
204	Architecture and properties of a novel two-dimensional carbon material-graphtetrayne. <i>Nano Energy</i> , 2018 , 43, 192-199	17.1	51
203	Donor-acceptor molecules based on benzothiadiazole: Synthesis, X-ray crystal structures, linear and third-order nonlinear optical properties. <i>Dyes and Pigments</i> , 2016 , 125, 100-105	4.6	50
202	Fluorescence Turn-On Detection of Nitric Oxide in Aqueous Solution Using Cationic Conjugated Polyelectrolytes. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 241-245	4.8	49
201	Ultrathin Graphdiyne-Wrapped Iron Carbonate Hydroxide Nanosheets toward Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2618-2625	9.5	48
200	A New Class of Conjugated Polymers Having Porphyrin, Poly(p-phenylenevinylene), and Fullerene Units for Efficient Electron Transfer. <i>Macromolecules</i> , 2006 , 39, 5319-5325	5.5	47

- 199 Mapping of atomic catalyst on graphdiyne. *Nano Energy*, **2019**, 62, 754-763 17.1 45
- 198 Graphdiyne-Promoted Highly Efficient Photocatalytic Activity of Graphdiyne/Silver Phosphate Pickering Emulsion Under Visible-Light Irradiation. *ACS Applied Materials & Interfaces*, **2019**, 11, 2684-2691 17.5 45
- 197 High-Yield and Damage-free Exfoliation of Layered Graphdiyne in Aqueous Phase. *Angewandte Chemie - International Edition*, **2019**, 58, 746-750 16.4 44
- 196 Aggregation-induced emission on benzothiadiazole dyads with large third-order optical nonlinearity. *Physical Chemistry Chemical Physics*, **2013**, 15, 12660-6 3.6 42
- 195 Graphdiyne-based metal atomic catalysts for synthesizing ammonia. *National Science Review*, **2021**, 8, nwaa213 10.8 42
- 194 In Situ Coating Graphdiyne for High-Energy-Density and Stable Organic Cathodes. *Advanced Materials*, **2020**, 32, e2000140 24 41
- 193 Accelerating Atomic Catalyst Discovery by Theoretical Calculations-Machine Learning Strategy. *Advanced Energy Materials*, **2020**, 10, 1903949 21.8 41
- 192 Application of Click Chemistry to the Construction of Supramolecular Functional Systems. *Asian Journal of Organic Chemistry*, **2014**, 3, 582-602 3 41
- 191 Efficient hydrogen generation on graphdiyne-based heterostructure. *Nano Energy*, **2019**, 55, 135-142 17.1 41
- 190 Graphdiyne: Structure of Fluorescent Quantum Dots. *Angewandte Chemie - International Edition*, **2020**, 59, 16712-16716 16.4 39
- 189 Synthesis of Chlorine-Substituted Graphdiyne and Applications for Lithium-Ion Storage. *Angewandte Chemie*, **2017**, 129, 10880-10885 3.6 39
- 188 Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. *Advanced Materials*, **2020**, 32, e2004379 24 38
- 187 Graphdiyne-templated palladium-nanoparticle assembly as a robust oxygen generator to attenuate tumor hypoxia. *Nano Today*, **2020**, 34, 100907 17.9 38
- 186 Ultrafast Interweaving Graphdiyne Nanochain on Arbitrary Substrates and Its Performance as a Supercapacitor Electrode. *ACS Applied Materials & Interfaces*, **2019**, 11, 2599-2607 9.5 38
- 185 Synthesis of a novel poly(para-phenylene ethynylene) for highly selective and sensitive sensing mercury (II) ions. *Journal of Polymer Science Part A*, **2008**, 46, 1998-2007 2.5 37
- 184 Ultrathin Graphdiyne Nanosheets Grown In Situ on Copper Nanowires and Their Performance as Lithium-Ion Battery Anodes. *Angewandte Chemie*, **2018**, 130, 782-786 3.6 37
- 183 Direct Synthesis of Crystalline Graphdiyne Analogue Based on Supramolecular Interactions. *Journal of the American Chemical Society*, **2019**, 141, 48-52 16.4 35
- 182 Rationally engineered active sites for efficient and durable hydrogen generation. *Nature Communications*, **2019**, 10, 2281 17.4 34

181	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. <i>Advanced Optical Materials</i> , 2015 , 3, 948-956	8.1	34
180	Controlling growth of molecular crystal aggregates for efficient optical waveguides. <i>Chemical Communications</i> , 2012 , 48, 9011-3	5.8	34
179	Synthesis and characterization of 3,5-bis(2-hydroxyphenyl)-1,2,4-triazole functionalized tetraaryloxy perylene bisimide and metal-directed self-assembly. <i>Journal of Organic Chemistry</i> , 2005 , 70, 9686-92	4.2	34
178	Design and self-assembly of advanced functional molecular materials—from low dimension to multi-dimension. <i>Scientia Sinica Chimica</i> , 2017 , 47, 1045-1056	1.6	34
177	Flexible Organic Solar Cells: Progress and Challenges. <i>Small Science</i> , 2021 , 1, 2100001		34
176	The interaction between conjugated polymer and fullerenes. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 599-603	2.9	33
175	Synthesis and Electronic Structure of Boron-Graphdiyne with an sp-Hybridized Carbon Skeleton and Its Application in Sodium Storage. <i>Angewandte Chemie</i> , 2018 , 130, 4032-4037	3.6	32
174	How functional groups change the electronic structure of graphdiyne: Theory and experiment. <i>Carbon</i> , 2017 , 123, 1-6	10.4	32
173	Strong Charge-Transfer Chromophores from [2+2] Cycloadditions of TCNE and TCNQ to Peripheral Donor-Substituted Alkynes. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 6445-6451	3.2	32
172	2D Graphdiyne Oxide Serves as a Superior New Generation of Antibacterial Agents. <i>IScience</i> , 2019 , 19, 662-675	6.1	31
171	Intrinsic magnetism of graphdiyne. <i>Applied Physics Letters</i> , 2017 , 111, 033101	3.4	31
170	Graphdiyne nanostructure for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020 , 68, 104307	17.1	31
169	Graphdiyne-engineered heterostructures for efficient overall water-splitting. <i>Nano Energy</i> , 2019 , 64, 103928	17.1	30
168	Non-Ionic Water-Soluble Crown-Ether-Substituted Polyfluorene as Fluorescent Probe for Lead Ion Assays. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1333-1338	4.8	30
167	Comparisons between Graphene Oxide and Graphdiyne Oxide in Physicochemistry Biology and Cytotoxicity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32946-32954	9.5	30
166	Controllable Synthesis of Graphdiyne Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4908-4913	16.4	29
165	Graphdiyne with tunable activity towards hydrogen evolution reaction. <i>Nano Energy</i> , 2019 , 63, 103874	17.1	29
164	Progress and prospect of two dimensional carbon graphdiyne. <i>Chinese Science Bulletin</i> , 2016 , 61, 2901-2912	17.1	29

163	Graphdiyne Oxide-Based High-Performance Rechargeable Aqueous Zn/MnO ₂ Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 2004115	15.6	29
162	In situ synthesis of a Prussian blue nanoparticles/graphdiyne oxide nanocomposite with high stability and electrocatalytic activity. <i>Electrochemistry Communications</i> , 2017 , 83, 96-101	5.1	28
161	Tuning CuTCNQ Nanostructures on Patterned Copper Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17625-17630	3.8	28
160	Chemical Modification and Functionalization of Graphdiyne. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2018 , 34, 992-1013	3.8	27
159	Tuning Growth of Low-Dimensional Organic Nanostructures for Efficient Optical Waveguide Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14134-14138	3.8	26
158	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. <i>Biomaterials</i> , 2020 , 244, 119940	15.6	25
157	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020 , 21, 2145-2149	3.2	25
156	Architecture of low dimensional nanostructures based on conjugated polymers. <i>Polymer Chemistry</i> , 2013 , 4, 5162	4.9	24
155	The Process of Functional Conjugated Organic Polymers Derived from Triple-Bond Building Blocks. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1541-1552	2.6	24
154	Photoinduced Electrocatalysis on 3D Flexible OsO _x Quantum Dots. <i>Advanced Energy Materials</i> , 2021 , 11, 2100234	21.8	23
153	Acidic Water Oxidation on Quantum Dots of IrO _x /Graphdiyne. <i>Advanced Energy Materials</i> , 2021 , 11, 2101138	11.8	23
152	Highly Lithiophilic Graphdiyne Nanofilm on 3D Free-Standing Cu Nanowires for High-Energy-Density Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17678-17685	9.5	22
151	Chemical modification: Toward solubility and processability of graphdiyne. <i>Nano Energy</i> , 2019 , 64, 103932	27.1	22
150	Efficiently suppressing lithium dendrites on atomic level by ultrafiltration membrane of graphdiyne. <i>Materials Today Energy</i> , 2018 , 10, 191-199	7	22
149	Controlling the Interface Areas of Organic/Inorganic Semiconductor Heterojunction Nanowires for High-Performance Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21563-9	9.5	21
148	A Fluorescence Ratiometric Protein Assay Using Light-Harvesting Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 993-997	4.8	21
147	Construction of diads and triads copolymer systems containing perylene, porphyrin, and/or fullerene blocks. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 5863-5874	2.5	21
146	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	21

145	Unique structural advances of graphdiyne for energy applications. <i>EnergyChem</i> , 2020 , 2, 100041	36.9	21
144	Self-Validated Machine Learning Study of Graphdiyne-Based Dual Atomic Catalyst. <i>Advanced Energy Materials</i> , 2021 , 11, 2003796	21.8	21
143	Induced Ferromagnetic Order of Graphdiyne Semiconductors by Introducing a Heteroatom. <i>ACS Central Science</i> , 2020 , 6, 950-958	16.8	20
142	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 14035-14041	3.6	20
141	Synthesis of Water-Soluble Dendritic Conjugated Polymers for Fluorescent DNA Assays. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1739-1745	4.8	20
140	C60 photoluminescence spectra related to gas adsorption. <i>Applied Physics Letters</i> , 1992 , 61, 1028-1030	3.4	20
139	Graphdiyne-based flexible respiration sensors for monitoring human health. <i>Nano Today</i> , 2021 , 39, 101214	14.9	20
138	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2010112	15.6	19
137	A Universal Strategy for Constructing Seamless Graphdiyne on Metal Oxides to Stabilize the Electrochemical Structure and Interface. <i>Advanced Materials</i> , 2019 , 31, e1806272	24	19
136	2D graphdiyne: an emerging carbon material.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	19
135	Graphdiyne for multilevel flexible organic resistive random access memory devices. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1338-1341	7.8	18
134	Carbon Atom Hybridization Matters: Ultrafast Humidity Response of Graphdiyne Oxides. <i>Angewandte Chemie</i> , 2018 , 130, 3986-3990	3.6	17
133	Growing uniform copolymer nanowire arrays for high stability and efficient field emission. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11068		17
132	Synthesis of Zwitterionic Water-Soluble Oligofluorenes with Good Light-Harvesting Ability. <i>Advanced Functional Materials</i> , 2010 , 20, 2175-2180	15.6	17
131	Controlled Synthesis of a Three-Segment Heterostructure for High-Performance Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1771-1780	9.5	16
130	A Clicked Porphyrin cage with high binding affinity towards fullerenes. <i>RSC Advances</i> , 2014 , 4, 27389-27397	3.7	16
129	Electronic logic gates from three-segment nanowires featuring two p-n heterojunctions. <i>NPG Asia Materials</i> , 2013 , 5, e59-e59	10.3	16
128	Field emission from GeSe ₂ nanowalls. <i>Applied Physics Letters</i> , 2011 , 98, 113118	3.4	16

127	Aggregation-enhanced emission in gold nanoparticles protected by tetradentate perylene derivative. <i>Langmuir</i> , 2009 , 25, 11351-7	4	16
126	The self-assembly of [60]fullerene-substituted 2,2'-bipyridine on the surface of Au(111) and Au nanoparticles. <i>New Journal of Chemistry</i> , 2001 , 25, 1191-1194	3.6	16
125	Synthesis and characterization of a high-efficiency light-emitting alternating copolymer. <i>Journal of Polymer Science Part A</i> , 1999 , 37, 2587-2594	2.5	16
124	Synthesis of a Naphthalene-diimide Cyclophane for Tuning Supramolecular Interactions by Metal Ions. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 4287-4292	3.2	15
123	The First Crown Ether-Bearing [60]Fullero-Pyrrolidine: Synthesis and Regulation of Absorption Spectrum by ions Binding. <i>Synthetic Communications</i> , 1998 , 28, 1957-1962	1.7	15
122	Molecular modeling of poly(p-phenylenevinylene): Synthesis and photophysical properties of oligomers. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 911-924	2.5	15
121	Photo-induced DNA cleavage in self-assembly multilayer films. <i>New Journal of Chemistry</i> , 2002 , 26, 617-620	3.2	15
120	Synthesis of 1,2,3-Triazole-4-carboxamide-Containing Foldamers for Sulfate Recognition. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 2687-2693	3.2	14
119	Chemical sensors based on π -conjugated organic molecules and gold nanoparticles. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 715-730		14
118	Fabrication of novel conjugated polymer nanostructure: Porphyrins and fullerenes conjugately linked to the polyacetylene backbone as pendant groups. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2851-2861	2.5	14
117	A dehydrobenzoannulene-based three dimensional graphdiyne for photocatalytic hydrogen generation using Pt nanoparticles as a co-catalyst and triethanolamine as a sacrificial electron donor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4850-4855	13	14
116	Efficient Hydrogen Evolution on Nanoscale Graphdiyne. <i>Small</i> , 2021 , 17, e2006136	11	14
115	Nanoindentation of thin graphdiyne films: Experiments and molecular dynamics simulation. <i>Carbon</i> , 2019 , 144, 72-80	10.4	14
114	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. <i>Angewandte Chemie</i> , 2021 , 133, 3207-3211	3.6	14
113	The Underlying Function and Structural Organization of the Intracellular Protein Corona on Graphdiyne Oxide Nanosheet for Local Immunomodulation. <i>Nano Letters</i> , 2021 , 21, 6005-6013	11.5	14
112	Synthesis and Characterization of New Types of Perylene Bisimide-Containing Conjugated Copolymers. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 721-727	4.8	13
111	C60 based nanoparticles: self-assembly of a novel fullerene derivative. <i>New Journal of Chemistry</i> , 2001 , 25, 670-672	3.6	13
110	Controllable growth of graphdiyne layered nanosheets for high-performance water oxidation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4153-4159	7.8	13

109	Graphdiyne Visible-Light Photodetector with Ultrafast Detectivity. <i>Advanced Optical Materials</i> , 2021 , 9, 2001916	8.1	13
108	Large-Area Aminated-Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie</i> , 2019 , 131, 15152-15157	3.6	12
107	A highly selective and active metal-free catalyst for ammonia production. <i>Nanoscale Horizons</i> , 2020 , 5, 1274-1278	10.8	12
106	Electrochemical Energy Storage: Graphdiyne-Based Materials: Preparation and Application for Electrochemical Energy Storage (Adv. Mater. 42/2019). <i>Advanced Materials</i> , 2019 , 31, 1970300	24	12
105	Self-assembly and properties of low-dimensional nanomaterials based on π -conjugated organic molecules. <i>Pure and Applied Chemistry</i> , 2008 , 80, 639-658	2.1	12
104	Composites of C60 based poly(phenylene vinylene) dyad and conjugated polymer for polymer light-emitting devices. <i>Applied Physics Letters</i> , 2002 , 80, 3847-3849	3.4	12
103	Proton selective anode nanochannel for efficient methanol utilization. <i>Nano Today</i> , 2021 , 39, 101213	17.9	12
102	Self-assembly and tunable optical properties of intramolecular charge transfer molecules. <i>Aggregate</i> , 2020 , 1, 57-68	22.9	12
101	Self-assembly low dimensional inorganic/organic heterojunction nanomaterials. <i>Science Bulletin</i> , 2013 , 58, 2686-2697		11
100	Controlling the Growth of Molecular Crystal Aggregates with Distinct Linear and Nonlinear Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30862-30871	9.5	11
99	Photoelectric conversion behavior based on direct interfacial charge-transfer from porphyrin derivative to silicon nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 253111	3.4	11
98	Thinner-film plastic photovoltaic cells based on different C60 derivatives. <i>Polymers for Advanced Technologies</i> , 2006 , 17, 500-505	3.2	11
97	A New Copolymer Containing Perylene Bisimide and Porphyrin Moieties: Synthesis and Characterization. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 2199-2205	2.6	11
96	Preparation of Two Novel C60 and C70 Fullerene Pyrrolidine Derivatives. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1996 , 4, 1067-1072		10
95	Controllable Synthesis of Graphdiyne Nanoribbons. <i>Angewandte Chemie</i> , 2020 , 132, 4938-4943	3.6	9
94	Synthesis of a naphthalenediimide-based cyclophane for controlling anion- π interactions. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 661-667	6.8	9
93	Synthesis of fulleropyrrolidine derivatives of C60. <i>Science Bulletin</i> , 1997 , 42, 1180-1184		9
92	Fabrication and Electroproperties of Nanoribbons: Carbon Enyne. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700133	6.4	8

91	Graphdiyne under pressure: A Raman study. <i>Applied Physics Letters</i> , 2018 , 113, 021901	3.4	8
90	Hybrid molecular nanostructures with donor-acceptor chains. <i>Science China Chemistry</i> , 2013 , 56, 124-130	7.9	8
89	Porous 3D Silicon-Diamondyne Blooms Excellent Storage and Diffusion Properties for Li, Na, and K Ions. <i>Advanced Energy Materials</i> , 2021 , 11, 2101197	21.8	8
88	The electronic properties and magnetic states of edge-modified Graphdiyne nanoribbons. <i>Computational Materials Science</i> , 2019 , 163, 82-90	3.2	7
87	Induced helix formation and stabilization of a meta-linked polymer containing pyridine units. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 1403-1412	2.5	7
86	Synthesis and antioxidative properties of polyphenol-fullerenes. <i>Science Bulletin</i> , 2001 , 46, 1790-1792		7
85	Photophysical characteristics of soluble oligo(p-phenylenevinylene)fullerene dyad. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 3981-3988	2.5	7
84	Direct Evidence of Photoinduced Charge Transfer from Alternating Copolymer to Buckminsterfullerene. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 1824-1828	2.6	7
83	Highly Dispersed Platinum Chlorine Atoms Anchored on Gold Quantum Dots for a Highly Efficient Electrocatalyst.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	7
82	Graphdiyne Micromotors in Living Biomed. <i>Chemistry - A European Journal</i> , 2020 , 26, 8471-8477	4.8	7
81	DNA-Guided Room-Temperature Synthesis of Single-Crystalline Gold Nanostructures on Graphdiyne Substrates. <i>ACS Central Science</i> , 2020 , 6, 779-786	16.8	7
80	Bimetallic Mixed Clusters Highly Loaded on Porous 2D Graphdiyne for Hydrogen Energy Conversion. <i>Advanced Science</i> , 2021 , 8, e2102777	13.6	7
79	Porous graphdiyne loading CoOx quantum dots for fixation nitrogen reaction. <i>Nano Energy</i> , 2021 , 89, 106333	17.1	7
78	Innenstruktur: Synthesis and Electronic Structure of Boron-Graphdiyne with an sp-Hybridized Carbon Skeleton and Its Application in Sodium Storage (Angew. Chem. 15/2018). <i>Angewandte Chemie</i> , 2018 , 130, 4169-4169	3.6	6
77	New method for the synthesis of a highly-conjugated acene material and its application in Perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2261-2264	7.8	6
76	Tuning Luminescence and Conductivity through Controlled Growth of Polymorphous Molecular Crystals. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700132	6.4	6
75	Synthesis and characterization of new dyads containing different percentages of C60 and PPV covalently linked. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 1931-1935	2.6	6
74	Graphdiyne-Induced Iron Vacancy for Efficient Nitrogen Conversion. <i>Advanced Science</i> , 2021 , e2102721	13.6	6

73	Nitrogen-doped graphdiyne for effective metal deposition and heterogeneous Suzuki-Miyaura coupling catalysis. <i>Applied Catalysis A: General</i> , 2021 , 623, 118244	5.1	6
72	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 13121-13127	3.6	5
71	Synthesis of Amino-Substituted Pyrrole-Fused Perylenebis(dicarboximide) Derivatives by a One-Pot Azidation/Reduction/Cyclization. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 7076-7082	3.2	5
70	The gas/liquid tunable self-assembly properties of rod/coil diblock copolymer: donor/acceptor alternating structure served as rod segment. <i>Colloid and Polymer Science</i> , 2011 , 289, 1469-1478	2.4	5
69	Influence of organic acids on UV-Vis spectra of pyrrolidino-[60]fullerene derivatives. <i>Science Bulletin</i> , 2001 , 46, 1156-1159		5
68	Photoconductivity of 1,2-(1,1,2,2-tetracyanomethanoxy)methano[60]fullerene-doped PVK. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 209-213	2.9	5
67	Quantitative Detection of Visible Light on Hybrid Nanostructures of Two-dimension Porous Conjugated Polymers and Charge-Transfer Complexes by Field Emission. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2778-2784	4.5	5
66	Photoactive conjugated polymer/graphdiyne nanocatalyst for CO ₂ reduction to CO in living cells for hypoxia tumor treatment. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5841-5845	7.8	5
65	High Voltage-Stabilized Graphdiyne Cathode Interface. <i>Small</i> , 2021 , 17, e2102066	11	5
64	Selective Conversion of CO ₂ into Cyclic Carbonate on Atom Level Catalysts. <i>ACS Materials Au</i> ,		5
63	Controlled Growth and Self-Assembly of Multiscale Organic Semiconductor. <i>Advanced Materials</i> , 2021 , e2102811	24	5
62	A Facile Way for Synthesis of High Performance Electron Receptor MCB: A Promising Replacer of PCBM. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 289-298	1.8	4
61	Controllable Supramolecular Architectures for Modulating Optical Properties on the Molecular Aggregation Level. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 5004-5009	3.2	4
60	SYNTHESIS OF NEW C60-BASED DYADS CONTAINING CARBAZOLE AND BENZOTHAZOLE MOIETIES. <i>Synthetic Communications</i> , 2002 , 32, 2507-2512	1.7	4
59	Synthesis and magnetic property of a nitroxide based on C60. <i>Science Bulletin</i> , 2000 , 45, 896-899		4
58	Effect of Substituents on the Redox Potentials of C60 Derivatives. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 963-980		4
57	Electronic structure and property studies of the first crowned [60] fulleropyrrolidine. <i>Science in China Series B: Chemistry</i> , 1999 , 42, 27-33		4
56	1D Nanowire Heterojunction Electrocatalysts of MnCo ₂ O ₄ /GDY for Efficient Overall Water Splitting. <i>Advanced Functional Materials</i> , 2107179	15.6	4

55	Graphdiyne@NiOx(OH) _y heterostructure for efficient overall water splitting. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5305-5311	7.8	4
54	Intensified C-C Stretching Vibrator and Its Potential Role in Monitoring Ultrafast Energy Transfer in 2D Carbon Material by Nonlinear Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1402-1410	6.4	3
53	2D Inorganic Materials: from Atomic Crystals to Molecular Crystals. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 147-148	2.2	3
52	A chiral macrocyclic receptor for sulfate anions with CD signals. <i>RSC Advances</i> , 2014 , 4, 2023-2028	3.7	3
51	Controllable growth of organic nanostructures from 0D to 1D with different optical properties. <i>RSC Advances</i> , 2015 , 5, 100457-100463	3.7	3
50	Novel Selective Receptor for SO ₂ Based on Molecular Recognition. <i>Supramolecular Chemistry</i> , 2007 , 19, 525-529	1.8	3
49	Electrochemistry of the films of a novel class C60 covalently linked PPV derivative: Electrochemical quartz crystal microbalance study in acetonitrile solutions of tetra-n-butylammonium cations. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2737-2741	2.9	3
48	Selectively Growing a Highly Active Interface of Mixed Nb-Rh Oxide/2D Carbon for Electrocatalytic Hydrogen Production.. <i>Advanced Science</i> , 2022 , e2104706	13.6	3
47	Graphdiyne: from Synthesis to Application. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2018 , 34, 959-960	3.8	3
46	Graphdiyne tubular micromotors: Electrosynthesis, characterization and self-propelled capabilities. <i>Applied Materials Today</i> , 2020 , 20, 100743	6.6	3
45	Biodegradation of graphdiyne oxide in classically activated (M1) macrophages modulates cytokine production. <i>Nanoscale</i> , 2021 , 13, 13072-13084	7.7	3
44	Highly selective and durable of monodispersed metal atoms in ammonia production. <i>Nano Today</i> , 2022 , 43, 101431	17.9	3
43	Effect of Solvents and Supporting Electrolytes on the Electrochemical Properties of C70 and its Comparison with C60. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1997 , 5, 1563-1577		2
42	Röntgenbild: Self-Expanding Ion-Transport Channels on Anodes for Fast-Charging Lithium-Ion Batteries (Angew. Chem. 7/2022). <i>Angewandte Chemie</i> , 2022 , 134,	3.6	2
41	Electronic structure modulation of metal-free graphdiyne for acidic oxygen evolution reaction. <i>2D Materials</i> , 2022 , 9, 014008	5.9	2
40	Atomic alloys of nickel-platinum on carbon network for methanol oxidation. <i>Nano Energy</i> , 2022 , 95, 106984	14.1	2
39	Highly Loading Metal Atoms on Graphdiyne for Efficient Nitrogen Fixation to Ammonia. <i>Journal of Materials Chemistry A</i> ,	13	2
38	Preparation of triphenyl-amine graphdiyne with concomitant assembled morphology and its application for lithium-ion storage. <i>2D Materials</i> , 2021 , 8, 044005	5.9	2

37	A metal-free graphdiyne material for highly efficient oxidation of benzene to phenol. <i>2D Materials</i> , 2021 , 8, 044004	5.9	2
36	Graphdiyne/CdSe quantum dot heterostructure for efficient photoelectrochemical water oxidation. <i>2D Materials</i> ,	5.9	2
35	2D Graphdiyne: A Rising Star on the Horizon of Energy Conversion. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3259-3271	4.5	2
34	Large-scale CuS nanotube arrays@graphdiyne for high-performance sodium ion battery. <i>2D Materials</i> , 2022 , 9, 025024	5.9	2
33	Highly Loaded Independent Pt Atoms on Graphdiyne for pH-General Methanol Oxidation Reaction.. <i>Advanced Science</i> , 2022 , e2104991	13.6	2
32	sp-carbon-enabled interface for high-performance graphite anode. <i>Nano Today</i> , 2022 , 44, 101478	17.9	2
31	Controlled Growth of the Interface of CdWO _x /GDY for Hydrogen Energy Conversion. <i>Advanced Functional Materials</i> , 2202843	15.6	2
30	Graphdiyne: Structure of Fluorescent Quantum Dots. <i>Angewandte Chemie</i> , 2020 , 132, 16855	3.6	1
29	Electrodes: A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells (Adv. Energy Mater. 12/2015). <i>Advanced Energy Materials</i> , 2015 , 5, n/a-n/a	21.8	1
28	Synthesis and Fluorescence Properties of a Novel Supramolecular Complex Containing [60]Fullerene Moiety. <i>Supramolecular Chemistry</i> , 2001 , 12, 451-455	1.8	1
27	Controlled Growth of Donor-Bridge-Acceptor Interface for High-Performance Ammonia Production.. <i>Small</i> , 2022 , e2107136	11	1
26	Controlled Growth of Single-Crystal Pd Quantum Dots on 2D Carbon for Large Current Density Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2111501	15.6	1
25	An integrated interfacial engineering for efficiently confining the asymmetric strain in scalable silicon anode. <i>Journal of Power Sources</i> , 2022 , 524, 231086	8.9	1
24	Nitrogen-rich Graphdiyne Film for Efficiently Suppressing the Methanol Crossover in Direct Methanol Fuel Cells. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1275-1282	2.2	1
23	Self-Expanding Ion-Transport Channels on Anodes for Fast-Charging Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , e202113313	16.4	1
22	Graphdiyne Based Atomic Catalyst: an Emerging Star for Energy Conversion. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1149	2.2	1
21	X-Shaped Polycyclic Aromatic Hydrocarbons: Optical Properties and Tunable Assembly Ability. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 491-498	4.5	1
20	2D carbon graphdiyne: Fundamentals and applications 2021 , 461-516		1

19	Graphdiyne oxide doping for aggregation control of hole-transport nanolayer in inverted perovskite solar cells. <i>Nano Research</i> ,1	10	1
18	Loading Nickel Atoms on GDY for Efficient CO ₂ Fixation and Conversion. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 92-98	2.2	1
17	Controlling precise voids in the ion-selective carbon shell for zero-strain electrode. <i>Energy Storage Materials</i> , 2022 , 45, 110-118	19.4	0
16	Functionalization of GDYs 2022 , 125-163		0
15	Graphdiyne-Based Materials in Rechargeable Batteries Applications 2022 , 221-285		0
14	Graphdiyne: Electronics, Thermoelectrics, and Magnetism Applications 2022 , 315-339		0
13	GDY Synthesis and Characterization 2022 , 79-123		0
12	Hydrogen Evolution Reaction: Photoinduced Electrocatalysis on 3D Flexible OsO _x Quantum Dots (Adv. Energy Mater. 18/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170071	21.8	0
11	Graphdiyne oxide and graphene oxide sense monovalent cations differently: The alkyne and alkene physicochemistry. <i>Nano Today</i> , 2021 , 38, 101141	17.9	0
10	Synthesis and Application of Graphdiyne Oxide-Polyurethane Nanocomposite Yield a Highly Sensitive Non-Enzyme Glucose Sensor. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 077520	3.9	0
9	Separation of acetylene, ethylene and ethane over single layered graphdiyne membranes: Performance and insights from quantum mechanical views. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107733	6.8	0
8	Electroactive C ₆₀ -Polymer Systems147-170		
7	Photoconductivity of [60]fullerene derivatives. <i>Science Bulletin</i> , 1998 , 43, 2071-2074		
6	Self-assembly of N-3- π pyridyl Aza[60]fulleroid on Au(111). <i>Science Bulletin</i> , 2005 , 50, 407-412		
5	Graphdiyne-Based Materials in Catalytic Applications 2022 , 165-219		
4	Graphdiyne-Based Materials in Solar Cells Applications 2022 , 287-314		
3	Graphdiyne-Based Materials in Sensors and Separation Applications 2022 , 341-365		
2	Basic Structure and Band Gap Engineering: Theoretical Study of GDYs 2022 , 13-77		

- 1 High-Yield and Damage-free Exfoliation of Layered Graphdiyne in Aqueous Phase. *Angewandte Chemie*, **2018**, 131, 756 3.6