Yurui Xue

List of Publications by Year in descending order

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		94415	71682
74	6,786	37	76
papers	citations	h-index	g-index

77	77	77	5462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. Nature Communications, 2018, 9, 1460.	12.8	781
2	Progress in Research into 2D Graphdiyne-Based Materials. Chemical Reviews, 2018, 118, 7744-7803.	47.7	745
3	Quantifying thiolâ€“gold interactions towards the efficient strength control. Nature Communications, 2014, 5, 4348.	12.8	518
4	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. Journal of the American Chemical Society, 2019, 141, 10677-10683.	13.7	474
5	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. Nature Communications, 2018, 9, 5309.	12.8	287
6	2D graphdiyne: an emerging carbon material. Chemical Society Reviews, 2022, 51, 2681-2709.	38.1	225
7	Graphdiyne and its Assembly Architectures: Synthesis, Functionalization, and Applications. Advanced Materials, 2019, 31, e1803101.	21.0	214
8	Graphdiyneâ€Supported NiCo₂S₄ Nanowires: A Highly Active and Stable 3D Bifunctional Electrode Material. Small, 2017, 13, 1700936.	10.0	194
9	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. Angewandte Chemie - International Edition, 2021, 60, 3170-3174.	13.8	174
10	Efficient Hydrogen Production on a 3D Flexible Heterojunction Material. Advanced Materials, 2018, 30, e1707082.	21.0	158
11	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. Angewandte Chemie - International Edition, 2020, 59, 13021-13027.	13.8	154
12	Self-catalyzed growth of Cu@graphdiyne coreâ€“shell nanowires array for high efficient hydrogen evolution cathode. Nano Energy, 2016, 30, 858-866.	16.0	149
13	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. IScience, 2019, 11, 31-41.	4.1	149
14	Extraordinarily Durable Graphdiyne-Supported Electrocatalyst with High Activity for Hydrogen Production at All Values of pH. ACS Applied Materials & Interfaces, 2016, 8, 31083-31091.	8.0	125
15	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	124
16	2D graphdiyne materials: challenges and opportunities in energy field. Science China Chemistry, 2018, 61, 765-786.	8.2	123
17	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie - International Edition, 2019, 58, 13897-13903.	13.8	123
18	Controlled Growth of MoS₂ Nanosheets on 2D Nâ€Doped Graphdiyne Nanolayers for Highly Associated Effects on Water Reduction. Advanced Functional Materials, 2018, 28, 1707564.	14.9	119

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19	Graphdiyne as a Host Active Material for Perovskite Solar Cell Application. Nano Letters, 2018, 18, 6941-6947.	9.1	110
20	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. National Science Review, 2021, 8, nwaa213.	9.5	110
21	Multifunctional Singleâ€Crystallized Carbonate Hydroxides as Highly Efficient Electrocatalyst for Full Water splitting. Advanced Energy Materials, 2018, 8, 1800175.	19.5	101
22	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. Nano Energy, 2020, 72, 104667.	16.0	91
23	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.	13.7	88
24	In situ growth of graphdiyne based heterostructure: Toward efficient overall water splitting. Nano Energy, 2019, 59, 591-597.	16.0	78
25	Ultrathin Graphdiyne-Wrapped Iron Carbonate Hydroxide Nanosheets toward Efficient Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 2618-2625.	8.0	73
26	Mapping of atomic catalyst on graphdiyne. Nano Energy, 2019, 62, 754-763.	16.0	64
27	Direct Synthesis of Crystalline Graphdiyne Analogue Based on Supramolecular Interactions. Journal of the American Chemical Society, 2019, 141, 48-52.	13.7	60
28	Rationally engineered active sites for efficient and durable hydrogen generation. Nature Communications, 2019, 10, 2281.	12.8	59
29	Efficient hydrogen generation on graphdiyne-based heterostructure. Nano Energy, 2019, 55, 135-142.	16.0	59
30	Acidic Water Oxidation on Quantum Dots of IrO_x/Graphdiyne. Advanced Energy Materials, 2021, 11, 2101138.	19.5	54
31	Photoinduced Electrocatalysis on 3D Flexible OsO_x Quantum Dots. Advanced Energy Materials, 2021, 11, 2100234.	19.5	50
32	1D Nanowire Heterojunction Electrocatalysts of MnCo₂O₄/GDY for Efficient Overall Water Splitting. Advanced Functional Materials, 2022, 32, .	14.9	48
33	Porous graphdiyne loading CoOx quantum dots for fixation nitrogen reaction. Nano Energy, 2021, 89, 106333.	16.0	47
34	Controlled Growth Interface of Charge Transfer Salts of Nickel-7,7,8,8-Tetracyanoquinodimethane on Surface of Graphdiyne. CCS Chemistry, 2023, 5, 971-981.	7.8	47
35	Graphdiyne@Janus Magnetite for Photocatalytic Nitrogen Fixation. Angewandte Chemie, 2021, 133, 3207-3211.	2.0	46
36	Graphdiyne-engineered heterostructures for efficient overall water-splitting. Nano Energy, 2019, 64, 103928.	16.0	43

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37	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. ChemPhysChem, 2020, 21, 2145-2149.	2.1	40
38	Efficient Hydrogen Evolution on Nanoscale Graphdiyne. Small, 2021, 17, e2006136.	10.0	36
39	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. Advanced Functional Materials, 2021, 31, 2010112.	14.9	35
40	A new carbon allotrope: graphdiyne. Trends in Chemistry, 2022, 4, 754-768.	8.5	35
41	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie, 2019, 131, 14035-14041.	2.0	34
42	Atomic alloys of nickel-platinum on carbon network for methanol oxidation. Nano Energy, 2022, 95, 106984.	16.0	31
43	Inverted MAPbI 3 Perovskite Solar Cells with Graphdiyne Derivativeâ€Incorporated Electron Transport Layers Exceeding 20% Efficiency. Solar Rrl, 2019, 3, 1900241.	5.8	28
44	Graphdiyneâ€Induced Iron Vacancy for Efficient Nitrogen Conversion. Advanced Science, 2022, 9, e2102721.	11.2	28
45	Bimetallic Mixed Clusters Highly Loaded on Porous 2D Graphdiyne for Hydrogen Energy Conversion. Advanced Science, 2021, 8, e2102777.	11.2	27
46	Highly selective and durable of monodispersed metal atoms in ammonia production. Nano Today, 2022, 43, 101431.	11.9	27
47	Highly Loaded Independent Pt⁰ Atoms on Graphdiyne for pHâ€General Methanol Oxidation Reaction. Advanced Science, 2022, 9, e2104991.	11.2	26
48	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	24
49	Controlled Synthesis of a Three-Segment Heterostructure for High-Performance Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 1771-1780.	8.0	22
50	Metal-free amino-graphdiyne for applications in electrocatalytic hydrogen evolution. Journal of Catalysis, 2021, 395, 129-135.	6.2	22
51	Acetylenic bond-driven efficient hydrogen production of a graphdiyne based catalyst. Materials Chemistry Frontiers, 2021, 5, 2247-2254.	5.9	21
52	Controlled Growth of the Interface of CdWO_x/GDY for Hydrogen Energy Conversion. Advanced Functional Materials, 2022, 32, .	14.9	21
53	A highly selective and active metal-free catalyst for ammonia production. Nanoscale Horizons, 2020, 5, 1274-1278.	8.0	20
54	Controllable growth of graphdiyne layered nanosheets for high-performance water oxidation. Materials Chemistry Frontiers, 2021, 5, 4153-4159.	5.9	19

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55	Controlled Growth of Singleâ€Crystal Pd Quantum Dots on 2D Carbon for Large Current Density Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	14.9	19
56	High-loading metal atoms on graphdiyne for efficient nitrogen fixation to ammonia. Journal of Materials Chemistry A, 2022, 10, 6073-6077.	10.3	18
57	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. Angewandte Chemie, 2020, 132, 13121-13127.	2.0	15
58	DNA-Guided Room-Temperature Synthesis of Single-Crystalline Gold Nanostructures on Graphdiyne Substrates. ACS Central Science, 2020, 6, 779-786.	11.3	15
59	Selective Conversion of CO₂ into Cyclic Carbonate on Atom Level Catalysts. ACS Materials Au, 2021, 1, 107-115.	6.0	15
60	Selectively Growing a Highly Active Interface of Mixed Nbâ€“Rh Oxide/2D Carbon for Electrocatalytic Hydrogen Production. Advanced Science, 2022, 9, e2104706.	11.2	15
61	Graphdiyne@NiO_x(OH)_y heterostructure for efficient overall water splitting. Materials Chemistry Frontiers, 2021, 5, 5305-5311.	5.9	13
62	Biodegradation of graphdiyne oxide in classically activated (M1) macrophages modulates cytokine production. Nanoscale, 2021, 13, 13072-13084.	5.6	12
63	Nitrogen-doped graphdiyne for effective metal deposition and heterogeneous Suzuki-Miyaura coupling catalysis. Applied Catalysis A: General, 2021, 623, 118244.	4.3	11
64	Controlled Growth of Donorâ€“Bridgeâ€“Acceptor Interface for Highâ€Performance Ammonia Production. Small, 2022, 18, e2107136.	10.0	11
65	Nickel(hydro)oxide/graphdiyne Catalysts for Efficient Oxygen Production Reaction. Chemical Research in Chinese Universities, 2021, 37, 1268-1274.	2.6	10
66	2D Graphdiyne: A Rising Star on the Horizon of Energy Conversion. Chemistry - an Asian Journal, 2021, 16, 3259-3271.	3.3	8
67	Loading Nickel Atoms on GDY for Efficient CO2 Fixation and Conversion. Chemical Research in Chinese Universities, 2022, 38, 92-98.	2.6	8
68	Graphdiyne/CdSe quantum dot heterostructure for efficient photoelectrochemical water oxidation. 2D Materials, 2021, 8, 044017.	4.4	7
69	Single Molecule Study on Polymerâ€“Nanoparticle Interactions: The Particle Shape Matters. Langmuir, 2017, 33, 7615-7621.	3.5	6
70	Bismuth/Graphdiyne Heterostructure for Electrocatalytic Conversion of CO2 to Formate. Chemical Research in Chinese Universities, 2022, 38, 1380-1386.	2.6	6
71	A metal-free graphdiyne material for highly efficient oxidation of benzene to phenol. 2D Materials, 2021, 8, 044004.	4.4	4
72	Conversion of Interfacial Chemical Bonds for Inducing Efficient Photoelectrocatalytic Water Splitting. ACS Materials Au, 2022, 2, 321-329.	6.0	4

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73	Electronic structure modulation of metal-free graphdiyne for acidic oxygen evolution reaction. 2D Materials, 2022, 9, 014008.	4.4	3
74	Hydrogen Evolution Reaction: Photoinduced Electrocatalysis on 3D Flexible OsO_x Quantum Dots (Adv. Energy Mater. 18/2021). Advanced Energy Materials, 2021, 11, 2170071.	19.5	1