Nam Hoon Kim

List of Publications by Year
in descending order

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308 papers	29,201 citations	5268 83 h-index	6836 155 g-index
310 all docs	310 docs citations	310 times ranked	28657 citing authors

#	Article	IF	Citations
1	Recent advances in graphene based polymer composites. Progress in Polymer Science, 2010, 35, 1350-1375.	24.7	2,949
2	Chemical functionalization of graphene and its applications. Progress in Materials Science, 2012, 57, 1061-1105.	32.8	1,612
3	Recent advances in graphene-based biosensors. Biosensors and Bioelectronics, 2011, 26, 4637-4648.	10.1	1,184
4	Polymer membranes for high temperature proton exchange membrane fuel cell: Recent advances and challenges. Progress in Polymer Science, 2011, 36, 813-843.	24.7	796
5	0D to 3D carbon-based networks combined with pseudocapacitive electrode material for high energy density supercapacitor: A review. Chemical Engineering Journal, 2021, 403, 126352.	12.7	755
6	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 767-784.	6.7	672
7	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. Polymer, 2010, 51, 5921-5928.	3.8	464
8	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. Nanoscale, 2013, 5, 52-71.	5.6	432
9	A green approach for the reduction of graphene oxide by wild carrot root. Carbon, 2012, 50, 914-921.	10.3	337
10	Preparation of functionalized graphene/linear low density polyethylene composites by a solution mixing method. Carbon, 2011, 49, 1033-1037.	10.3	336
11	Enhanced mechanical properties of silanized silica nanoparticle attached graphene oxide/epoxy composites. Composites Science and Technology, 2013, 79, 115-125.	7.8	331
12	Controlled, Defect-Guided, Metal-Nanoparticle Incorporation onto MoS₂ via Chemical and Microwave Routes: Electrical, Thermal, and Structural Properties. Nano Letters, 2013, 13, 4434-4441.	9.1	281
13	Simultaneous bio-functionalization and reduction of graphene oxide by baker's yeast. Chemical Engineering Journal, 2012, 183, 526-533.	12.7	250
14	In situ synthesis of the reduced graphene oxideâ€“polyethyleneimine composite and its gas barrier properties. Journal of Materials Chemistry A, 2013, 1, 3739.	10.3	236
15	Characterizations of in situ grown ceria nanoparticles on reduced graphene oxide as a catalyst for the electrooxidation of hydrazine. Journal of Materials Chemistry A, 2013, 1, 9792.	10.3	234
16	Hierarchical Nïï£¿Moï£¿S and Nïï£¿Feï£¿S Nanosheets with Ultrahigh Energy Density for Flexible All Solidâ€State Supercapacitors. Advanced Functional Materials, 2018, 28, 1803287.	14.9	223
17	Dual role of glycine as a chemical functionalizer and a reducing agent in the preparation of graphene: an environmentally friendly method. Journal of Materials Chemistry, 2012, 22, 9696.	6.7	222
18	Hierarchical Co and Nb dual-doped MoS2 nanosheets shelled micro-TiO2 hollow spheres as effective multifunctional electrocatalysts for HER, OER, and ORR. Nano Energy, 2021, 82, 105750.	16.0	220

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19	Flexible Solidâ€State Asymmetric Supercapacitors Based on Nitrogenâ€Doped Graphene Encapsulated Ternary Metalâ€Nitrides with Ultralong Cycle Life. Advanced Functional Materials, 2018, 28, 1804663.	14.9	212
20	Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. Journal of Materials Chemistry A, 2013, 1, 1349-1358.	10.3	204
21	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. Carbon, 2011, 49, 3497-3502.	10.3	201
22	Hierarchical Znâ€“Coâ€“S Nanowires as Advanced Electrodes for All Solid State Asymmetric Supercapacitors. Advanced Energy Materials, 2018, 8, 1702014.	19.5	199
23	Silicate-based polymer-nanocomposite membranes for polymer electrolyte membrane fuel cells. Progress in Polymer Science, 2012, 37, 842-869.	24.7	186
24	Effect of functionalized graphene on the physical properties of linear low density polyethylene nanocomposites. Polymer Testing, 2012, 31, 31-38.	4.8	184
25	Rational Design of Core@shell Structured CoS_x@Cu₂MoS₄ Hybridized MoS₂/N,Sâ€Codoped Graphene as Advanced Electrocatalyst for Water Splitting and Znâ€Air Battery. Advanced Energy Materials, 2020, 10, 1903289.	19.5	179
26	Reduced graphene oxide (RGO)-supported NiCo₂O₄nanoparticles: an electrocatalyst for methanol oxidation. Nanoscale, 2014, 6, 10657.	5.6	177
27	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. Carbon, 2014, 69, 66-78.	10.3	169
28	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. Nanoscale, 2015, 7, 4820-4868.	5.6	169
29	Alkaline Water Splitting Enhancement by MOFâ€Derived Feâ€“Coâ€“Oxide/Co@NCâ€mNS Heterostructure: Boosting OER and HER through Defect Engineering and In Situ Oxidation. Small, 2021, 17, e2101312.	10.0	166
30	Ternary graphene-carbon nanofibers-carbon nanotubes structure for hybrid supercapacitor. Chemical Engineering Journal, 2020, 380, 122543.	12.7	157
31	Characterization and properties of in situ emulsion polymerized poly(methyl methacrylate)/graphene nanocomposites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1856-1861.	7.6	156
32	Fabrication of a 3D Hierarchical Sandwich Co₉S₈/Î±â€MnS@Nâ€“C@MoS₂ Nanowire Architectures as Advanced Electrode Material for High Performance Hybrid Supercapacitors. Small, 2018, 14, e1800291.	10.0	154
33	Effective seed-assisted synthesis of gold nanoparticles anchored nitrogen-doped graphene for electrochemical detection of glucose and dopamine. Biosensors and Bioelectronics, 2016, 81, 259-267.	10.1	152
34	All ternary metal selenide nanostructures for high energy flexible charge storage devices. Nano Energy, 2019, 65, 103999.	16.0	152
35	Sustainable Synthesis of Co@NC Core Shell Nanostructures from Metal Organic Frameworks via Mechanochemical Coordination Selfâ€Assembly: An Efficient Electrocatalyst for Oxygen Reduction Reaction. Small, 2018, 14, e1800441.	10.0	150
36	Facile fabrication of Co₂CuS₄nanoparticle anchored N-doped graphene for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17560-17571.	10.3	147

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37	Electrochemical performance of a grapheneâ€“polypyrrole nanocomposite as a supercapacitor electrode. Nanotechnology, 2011, 22, 295202.	2.6	146
38	Effect of carbon fillers on properties of polymer composite bipolar plates of fuel cells. Journal of Power Sources, 2009, 193, 523-529.	7.8	138
39	Boosting the Energy Density of Flexible Solid-State Supercapacitors via Both Ternary NiV₂Se₄ and NiFe₂Se₄ Nanosheet Arrays. Chemistry of Materials, 2019, 31, 4490-4504.	6.7	138
40	Iodide-mediated room temperature reduction of graphene oxide: a rapid chemical route for the synthesis of a bifunctional electrocatalyst. Journal of Materials Chemistry A, 2014, 2, 1332-1340.	10.3	137
41	Zinc-nickel-cobalt oxide@NiMoO4 core-shell nanowire/nanosheet arrays for solid state asymmetric supercapacitors. Chemical Engineering Journal, 2020, 384, 123357.	12.7	133
42	Facile preparation of flower-like NiCo2O4/three dimensional graphene foam hybrid for high performance supercapacitor electrodes. Carbon, 2015, 89, 328-339.	10.3	132
43	Recent advances in two-dimensional transition metal dichalcogenides-graphene heterostructured materials for electrochemical applications. Progress in Materials Science, 2018, 96, 51-85.	32.8	132
44	Effects of the addition of multi-walled carbon nanotubes on the positive temperature coefficient characteristics of carbon-black-filled high-density polyethylene nanocomposites. Scripta Materialia, 2006, 55, 1119-1122.	5.2	130
45	Sunlight-driven sustainable production of hydrogen peroxide using a CdSâ€“graphene hybrid photocatalyst. Journal of Catalysis, 2017, 345, 78-86.	6.2	130
46	Carbon dot stabilized copper sulphide nanoparticles decorated graphene oxide hydrogel for high performance asymmetric supercapacitor. Carbon, 2017, 122, 247-257.	10.3	130
47	Fabrication of nitrogen and sulfur co-doped graphene nanoribbons with porous architecture for high-performance supercapacitors. Chemical Engineering Journal, 2017, 312, 180-190.	12.7	130
48	Kirkendall Growth and Ostwald Ripening Induced Hierarchical Morphology of Niâ€“Co LDH/MMoS_x (M = Co, Ni, and Zn) Heteronanostructures as Advanced Electrode Materials for Asymmetric Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 11555-11567.	8.0	129
49	Metalâ€“organic framework derived hierarchical copper cobalt sulfide nanosheet arrays for high-performance solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2019, 7, 8620-8632.	10.3	129
50	Effects of dual component microcapsules of resin and curing agent on the self-healing efficiency of epoxy. Composites Part B: Engineering, 2013, 55, 79-85.	12.0	124
51	Effects of processing conditions of poly(methylmethacrylate) encapsulated liquid curing agent on the properties of self-healing composites. Composites Part B: Engineering, 2013, 49, 6-15.	12.0	122
52	Facile synthesis of 3D hierarchical N-doped graphene nanosheet/cobalt encapsulated carbon nanotubes for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9555-9565.	10.3	119
53	Facile synthesis of vanadium nitride/nitrogen-doped graphene composite as stable high performance anode materials for supercapacitors. Journal of Power Sources, 2016, 308, 149-157.	7.8	117
54	Hierarchical design of Cu_{1â^'x}Ni_xS nanosheets for high-performance asymmetric solid-state supercapacitors. Journal of Materials Chemistry A, 2017, 5, 19760-19772.	10.3	116

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55	Hierarchical 3D Znâ€“Niâ€“P nanosheet arrays as an advanced electrode for high-performance all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 8669-8681.	10.3	116
56	Hierarchical nanohoneycomb-like CoMoO₄â€“MnO₂ coreâ€“shell and Fe₂O₃ nanosheet arrays on 3D graphene foam with excellent supercapacitive performance. Journal of Materials Chemistry A, 2018, 6, 7182-7193.	10.3	116
57	Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. Polymer Testing, 2012, 31, 282-289.	4.8	114
58	High-energy asymmetric supercapacitors based on free-standing hierarchical Coâ€“Moâ€“S nanosheets with enhanced cycling stability. Nanoscale, 2017, 9, 13747-13759.	5.6	113
59	Preparation and characterization of self-assembled layer by layer NiCo2O4â€“reduced graphene oxide nanocomposite with improved electrocatalytic properties. Journal of Alloys and Compounds, 2014, 590, 266-276.	5.5	109
60	Effects of surface modification on the dispersion and electrical conductivity of carbon nanotube/polyaniline composites. Scripta Materialia, 2009, 60, 551-554.	5.2	108
61	Singleâ€Atom Coâ€Decorated MoS₂ Nanosheets Assembled on Metal Nitride Nanorod Arrays as an Efficient Bifunctional Electrocatalyst for pHâ€Universal Water Splitting. Advanced Functional Materials, 2021, 31, 2100233.	14.9	108
62	Remarkable Bifunctional Oxygen and Hydrogen Evolution Electrocatalytic Activities with Trace-Level Fe Doping in Ni- and Co-Layered Double Hydroxides for Overall Water-Splitting. ACS Applied Materials & Interfaces, 2018, 10, 42453-42468.	8.0	107
63	Pt nanodots monolayer modified mesoporous Cu@CuxO nanowires for improved overall water splitting reactivity. Nano Energy, 2019, 59, 216-228.	16.0	107
64	Molybdenum and Phosphorous Dual Doping in Cobalt Monolayer Interfacial Assembled Cobalt Nanowires for Efficient Overall Water Splitting. Advanced Functional Materials, 2020, 30, 2002533.	14.9	107
65	Hierarchically porous nickelâ€“cobalt phosphide nanoneedle arrays loaded micro-carbon spheres as an advanced electrocatalyst for overall water splitting application. Applied Catalysis B: Environmental, 2019, 253, 235-245.	20.2	105
66	An advanced sandwich-type architecture of MnCo₂O₄@Nâ€“C@MnO₂ as an efficient electrode material for a high-energy density hybrid asymmetric solid-state supercapacitor. Journal of Materials Chemistry A, 2018, 6, 24509-24522.	10.3	102
67	Hierarchical 3D Cobaltâ€Doped Fe₃O₄ Nanospheres@NG Hybrid as an Advanced Anode Material for Highâ€Performance Asymmetric Supercapacitors. Small, 2017, 13, 1701275.	10.0	100
68	Growth of Niâ€“Co binary hydroxide on a reduced graphene oxide surface by a successive ionic layer adsorption and reaction (SILAR) method for high performance asymmetric supercapacitor electrodes. Journal of Materials Chemistry A, 2016, 4, 2188-2197.	10.3	97
69	Recent advances in MXene-based nanocomposites for electrochemical energy storage applications. Progress in Materials Science, 2021, 117, 100733.	32.8	97
70	Hybridized bimetallic phosphides of Niâ€“Mo, Coâ€“Mo, and Coâ€“Ni in a single ultrathin-3D-nanosheets for efficient HER and OER in alkaline media. Composites Part B: Engineering, 2022, 239, 109992.	12.0	96
71	Highly efficient electrocatalyst of N-doped graphene-encapsulated cobalt-iron carbides towards oxygen reduction reaction. Carbon, 2018, 137, 358-367.	10.3	95
72	A novel hierarchical 3D N-Co-CNT@NG nanocomposite electrode for non-enzymatic glucose and hydrogen peroxide sensing applications. Biosensors and Bioelectronics, 2017, 89, 970-977.	10.1	93

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73	Nitrogenâ€Doped Graphene Nanosheets with FeN Coreâ€“Shell Nanoparticles as Highâ€Performance Counter Electrode Materials for Dyeâ€Sensitized Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500348.	3.7	92
74	Facile synthesis of novel sulfonated polyaniline functionalized graphene using m-aminobenzene sulfonic acid for asymmetric supercapacitor application. Chemical Engineering Journal, 2017, 308, 1174-1184.	12.7	92
75	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. Nanotechnology, 2011, 22, 305710.	2.6	91
76	Effects of various surfactants on the dispersion stability and electrical conductivity of surface modified graphene. Journal of Alloys and Compounds, 2013, 562, 134-142.	5.5	91
77	g-C₃N₄ templated synthesis of the Fe₃C@NSC electrocatalyst enriched with Feâ€“N_x active sites for efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 16920-16936.	10.3	91
78	Synthesis and characterization of polyanilineâ€multiwalled carbon nanotube nanocomposites in the presence of sodium dodecyl sulfate. Polymers for Advanced Technologies, 2008, 19, 1754-1762.	3.2	89
79	Novel core-shell CuMo-oxynitride@N-doped graphene nanohybrid as multifunctional catalysts for rechargeable zinc-air batteries and water splitting. Nano Energy, 2021, 85, 105987.	16.0	89
80	Fe and P Doped 1T-Phase Enriched WS23D-Dendritic Nanostructures for Efficient Overall Water Splitting. Applied Catalysis B: Environmental, 2021, 286, 119897.	20.2	88
81	Novel PAAm/Laponite clay nanocomposite hydrogels with improved cationic dye adsorption behavior. Composites Part B: Engineering, 2008, 39, 756-763.	12.0	87
82	Electrochemically exfoliated graphene using 9-anthracene carboxylic acid for supercapacitor application. Journal of Materials Chemistry, 2012, 22, 24403.	6.7	87
83	Enhanced Electrochemical and Photocatalytic Performance of Coreâ€“Shell CuS@Carbon Quantum Dots@Carbon Hollow Nanospheres. ACS Applied Materials & Interfaces, 2017, 9, 2459-2468.	8.0	87
84	Hierarchical three-dimensional framework interface assembled from oxygen-doped cobalt phosphide layer-shelled metal nanowires for efficient electrocatalytic water splitting. Applied Catalysis B: Environmental, 2020, 261, 118268.	20.2	87
85	Uniformly Controlled Treble Boundary Using Enriched Adsorption Sites and Accelerated Catalyst Cathode for Robust Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	87
86	Preparation and properties of reduced graphene oxide/polyacrylonitrile nanocomposites using polyvinyl phenol. Composites Part B: Engineering, 2015, 80, 238-245.	12.0	86
87	Emerging core-shell nanostructured catalysts of transition metal encapsulated by two-dimensional carbon materials for electrochemical applications. Nano Today, 2018, 22, 100-131.	11.9	86
88	Facile Method for the Preparation of Water Dispersible Graphene using Sulfonated Poly(etherâ€“etherâ€“ketone) and Its Application as Energy Storage Materials. Langmuir, 2012, 28, 9825-9833.	3.5	85
89	Hierarchical Manganeseâ€“Nickel Sulfide Nanosheet Arrays as an Advanced Electrode for All-Solid-State Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 21505-21514.	8.0	85
90	Micro-crack behavior of carbon fiber reinforced thermoplastic modified epoxy composites for cryogenic applications. Composites Part B: Engineering, 2013, 44, 533-539.	12.0	84

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91	Enhancement of physical, mechanical, and gas barrier properties in noncovalently functionalized graphene oxide/poly(vinylidene fluoride) composites. Carbon, 2015, 81, 329-338.	10.3	84
92	In situ synthesis of graphene-encapsulated gold nanoparticle hybrid electrodes for non-enzymatic glucose sensing. Carbon, 2016, 98, 90-98.	10.3	84
93	Embedded PEDOT:PSS/AgNFs network flexible transparent electrode for solid-state supercapacitor. Chemical Engineering Journal, 2019, 359, 197-207.	12.7	84
94	A coreâ€“shell MnO₂@Au nanofiber network as a high-performance flexible transparent supercapacitor electrode. Journal of Materials Chemistry A, 2019, 7, 10672-10683.	10.3	83
95	Novel porous gold-palladium nanoalloy network-supported graphene as an advanced catalyst for non-enzymatic hydrogen peroxide sensing. Biosensors and Bioelectronics, 2016, 85, 669-678.	10.1	82
96	Flexible transparent supercapacitor with core-shell Cu@Ni@NiCoS nanofibers network electrode. Chemical Engineering Journal, 2020, 395, 125019.	12.7	82
97	Positive temperature coefficient characteristic and structure of graphite nanofibers reinforced high density polyethylene/carbon black nanocomposites. Composites Part B: Engineering, 2009, 40, 218-224.	12.0	81
98	Preparation of reduced graphene oxide-NiFe 2 O 4 nanocomposites forÂthe electrocatalytic oxidation of hydrazine. Composites Part B: Engineering, 2015, 79, 649-659.	12.0	81
99	Enhanced mechanical properties and proton conductivity of Nafionâ€“SPEEKâ€“GO composite membranes for fuel cell applications. Journal of Membrane Science, 2014, 458, 128-135.	8.2	80
100	Green synthesis of glucose-reduced graphene oxide supported Ag-Cu 2 O nanocomposites for the enhanced visible-light photocatalytic activity. Composites Part B: Engineering, 2018, 138, 35-44.	12.0	80
101	Novel route to synthesis of N-doped graphene/Cuâ€“Ni oxide composite for high electrochemical performance. Carbon, 2015, 94, 962-970.	10.3	79
102	Fabrication of 3D graphene-CNTs/Î±-MoO3 hybrid film as an advance electrode material for asymmetric supercapacitor with excellent energy density and cycling life. Chemical Engineering Journal, 2018, 352, 268-276.	12.7	79
103	Effects of surface-modified silica nanoparticles attached graphene oxide using isocyanate-terminated flexible polymer chains on the mechanical properties of epoxy composites. Journal of Materials Chemistry A, 2014, 2, 10557-10567.	10.3	78
104	Hexylamine functionalized reduced graphene oxide/polyurethane nanocomposite-coated nylon for enhanced hydrogen gas barrier film. Journal of Membrane Science, 2016, 500, 106-114.	8.2	77
105	Epoxidation of Camelina sativa oil and peel adhesion properties. Industrial Crops and Products, 2015, 64, 1-8.	5.2	76
106	3D hierarchical CoO@MnO₂ coreâ€“shell nanohybrid for high-energy solid state asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 397-408.	10.3	75
107	Nitrogen-Doped Graphene-Encapsulated Nickel Cobalt Nitride as a Highly Sensitive and Selective Electrode for Glucose and Hydrogen Peroxide Sensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 35847-35858.	8.0	75
108	Nitrogen-doped graphene encapsulated cobalt iron sulfide as an advanced electrode for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2019, 7, 3941-3952.	10.3	74

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109	Highly reversible water splitting cell building from hierarchical 3D nickel manganese oxyphosphide nanosheets. Nano Energy, 2020, 69, 104432.	16.0	74
110	Facile synthesis of CuCo2O4 composite octahedrons for high performance supercapacitor application. Composites Part B: Engineering, 2018, 150, 269-276.	12.0	72
111	Nanostructured CeO2/NiVâ€“LDH composite for energy storage in asymmetric supercapacitor and as methanol oxidation electrocatalyst. Chemical Engineering Journal, 2021, 417, 128019.	12.7	72
112	3D nickel molybdenum oxyselenide (Ni1-xMoxOSe) nanoarchitectures as advanced multifunctional catalyst for Zn-air batteries and water splitting. Applied Catalysis B: Environmental, 2021, 286, 119909.	20.2	72
113	Swelling behavior of polyacrylamide/laponite clay nanocomposite hydrogels: pH-sensitive property. Composites Part B: Engineering, 2009, 40, 275-283.	12.0	71
114	Layer-structured graphene oxide/polyvinyl alcohol nanocomposites: dramatic enhancement of hydrogen gas barrier properties. Journal of Materials Chemistry A, 2014, 2, 12158.	10.3	71
115	Preparation and enhanced mechanical properties of non-covalently-functionalized graphene oxide/cellulose acetate nanocomposites. Composites Part B: Engineering, 2016, 90, 223-231.	12.0	71
116	CuAg@Ag Coreâ€“Shell Nanostructure Encapsulated by N-Doped Graphene as a High-Performance Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 4672-4681.	8.0	71
117	Constructing MoP_x@MnP_y Heteronanoparticle-Supported Mesoporous N,P-Codoped Graphene for Boosting Oxygen Reduction and Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 2892-2904.	6.7	71
118	A novel sensitive sensor for serotonin based on high-quality of AuAg nanoalloy encapsulated graphene electrocatalyst. Biosensors and Bioelectronics, 2017, 96, 186-193.	10.1	70
119	Effects of the addition of boric acid on the physical properties of MXene/polyvinyl alcohol (PVA) nanocomposite. Composites Part B: Engineering, 2020, 199, 108205.	12.0	69
120	Hierarchical Heterostructures of Ultrasmall Fe₂O₃-Encapsulated MoS₂/N-Graphene as an Effective Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 24523-24532.	8.0	68
121	Ruthenium single atoms implanted continuous MoS2-Mo2C heterostructure for high-performance and stable water splitting. Nano Energy, 2021, 88, 106277.	16.0	68
122	A new self-cross-linked, net-structured, proton conducting polymer membrane for high temperature proton exchange membrane fuel cells. Journal of Membrane Science, 2010, 349, 304-311.	8.2	67
123	Porous Hollowâ€Structured LaNiO₃ Stabilized N,Sâ€Codoped Graphene as an Active Electrocatalyst for Oxygen Reduction Reaction. Small, 2017, 13, 1701884.	10.0	66
124	Hierarchical material of carbon nanotubes grown on carbon nanofibers for high performance electrochemical capacitor. Chemical Engineering Journal, 2018, 345, 39-47.	12.7	66
125	Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4â€²-sulfonate. Carbon, 2013, 54, 310-322.	10.3	65
126	High-energy solid-state asymmetric supercapacitor based on nickel vanadium oxide/NG and iron vanadium oxide/NG electrodes. Applied Catalysis B: Environmental, 2018, 239, 290-299.	20.2	65

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127	Metalâ€“Organic Frameworkâ€Derived Fe/Coâ€based Bifunctional Electrode for H₂ Production through Water and Urea Electrolysis. ChemSusChem, 2019, 12, 4810-4823.	6.8	64
128	Synergy effect of hybrid fillers on the positive temperature coefficient behavior of polypropylene/ultraâ€high molecular weight polyethylene composites. Journal of Applied Polymer Science, 2010, 116, 116-124.	2.6	63
129	Dual-coupling ultrasmall iron-Ni2P into P-doped porous carbon sheets assembled CuxS nanobrush arrays for overall water splitting. Nano Energy, 2021, 84, 105861.	16.0	62
130	Improved mechanical and swelling behavior of the composite hydrogels prepared by ionic monomer and acid-activated Laponite. Applied Clay Science, 2009, 46, 414-417.	5.2	59
131	Graphitic carbon nitride modified graphene/Ni Al layered double hydroxide and 3D functionalized graphene for solid-state asymmetric supercapacitors. Chemical Engineering Journal, 2018, 353, 824-838.	12.7	59
132	Highly Active and Durable Coreâ€“Shell fct-PdFe@Pd Nanoparticles Encapsulated NG as an Efficient Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 18734-18745.	8.0	58
133	Co-MOF@MXene-carbon nanofiber-based freestanding electrodes for a flexible and wearable quasi-solid-state supercapacitor. Chemical Engineering Journal, 2022, 437, 135338.	12.7	58
134	A New Class of Zn₁_{â€x}Fe_xâ€“Oxyselenide and Zn_{1â€x}_xFe_xâ€“LDH Nanostructured Material with Remarkable Bifunctional Oxygen and Hydrogen Evolution Electrocatalytic Activities for Overall Water Splitting. Small, 2018, 14, e1803638.	10.0	56
135	Electrostatically assembled layer-by-layer composites containing graphene oxide for enhanced hydrogen gas barrier application. Composites Science and Technology, 2013, 89, 167-174.	7.8	55
136	Effects of ionic liquid-functionalized mesoporous silica on the proton conductivity of acid-doped poly(2,5-benzimidazole) composite membranes for high-temperature fuel cells. Journal of Membrane Science, 2014, 449, 136-145.	8.2	55
137	Advanced Cu0.5Co0.5Se2 nanosheets and MXene electrodes for high-performance asymmetric supercapacitors. Chemical Engineering Journal, 2020, 385, 123455.	12.7	55
138	Preparation of sulfonated poly(etherâ€“etherâ€“ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. Process Biochemistry, 2013, 48, 1724-1735.	3.7	54
139	Hydrothermal synthesis of Fe₃O₄/RGO composites and investigation of electrochemical performances for energy storage applications. RSC Advances, 2014, 4, 44777-44785.	3.6	54
140	N-doped carbon layer coated thermally exfoliated graphene and its capacitive behavior in redox active electrolyte. Carbon, 2015, 85, 60-71.	10.3	54
141	A hierarchical 2D Niâ€“Moâ€“S nanosheet@nitrogen doped graphene hybrid as a Pt-free cathode for high-performance dye sensitized solar cells and fuel cells. Journal of Materials Chemistry A, 2017, 5, 17896-17908.	10.3	54
142	Hierarchical 3D Oxygenated Cobalt Vanadium Selenide Nanosheets as Advanced Electrode for Flexible Zincâ€“Cobalt and Zincâ€“Air Batteries. Small, 2020, 16, e2004661.	10.0	54
143	Copper-Incorporated heterostructures of amorphous NiSex/Crystalline NiSe2 as an efficient electrocatalyst for overall water splitting. Chemical Engineering Journal, 2021, 422, 130048.	12.7	54
144	Novel hydroxylated boron nitride functionalized p-phenylenediamine-grafted graphene: an excellent filler for enhancing the barrier properties of polyurethane. Journal of Materials Chemistry A, 2018, 6, 21501-21515.	10.3	53

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145	High-performance solid-state hybrid supercapacitor enabled by metalâ€“organic framework-derived multi-component hybrid electrodes of Coâ€“Nâ€“C nanofibers and Co_{2â^'x}Fe_xPâ€“Nâ€“C micropillars. Journal of Materials Chemistry A, 2020, 8, 26158-26174.	10.3	53
146	7,7,8,8-Tetracyanoquinodimethane-assisted one-step electrochemical exfoliation of graphite and its performance as an electrode material. Nanoscale, 2014, 6, 4864-4873.	5.6	52
147	Surface modified graphene oxide/poly(vinyl alcohol) composite for enhanced hydrogen gas barrier film. Polymer Testing, 2016, 50, 49-56.	4.8	52
148	A spinel MnCo2O4/NG 2D/2D hybrid nanoarchitectures as advanced electrode material for high performance hybrid supercapacitors. Journal of Alloys and Compounds, 2019, 771, 810-820.	5.5	52
149	Hierarchical 3D Oxygenated Cobalt Molybdenum Selenide Nanosheets as Robust Trifunctional Catalyst for Water Splitting and Zincâ€“Air Batteries. Small, 2020, 16, e2000797.	10.0	52
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