Hanwu Dong

List of Publications by Year
in descending order

82 papers	4,441 citations	101543 36 h-index	106344 65 g-index
82 all docs	82 docs citations	82 times ranked	5202 citing authors

#	Article	IF	Citations
1	A Selfâ€Quenchingâ€Resistant Carbonâ€Dot Powder with Tunable Solidâ€State Fluorescence and Construction of Dualâ€Fluorescence Morphologies for White Lightâ€Emission. Advanced Materials, 2016, 28, 312-318.	21.0	527
2	Hierarchical structured carbon derived from bagasse wastes: A simple and efficient synthesis route and its improved electrochemical properties for high-performance supercapacitors. Journal of Power Sources, 2016, 302, 164-173.	7.8	358
3	Nitrogen-doped porous carbon with an ultrahigh specific surface area for superior performance supercapacitors. Journal of Power Sources, 2016, 310, 145-153.	7.8	161
4	Super-hierarchical porous carbons derived from mixed biomass wastes by a stepwise removal strategy for high-performance supercapacitors. Journal of Power Sources, 2018, 377, 151-160.	7.8	152
5	Ultrahigh-surface-area hierarchical porous carbon from chitosan: acetic acid mediated efficient synthesis and its application in superior supercapacitors. Journal of Materials Chemistry A, 2017, 5, 24775-24781.	10.3	149
6	Sulfur-doped nanoporous carbon spheres with ultrahigh specific surface area and high electrochemical activity for supercapacitor. Journal of Power Sources, 2017, 360, 373-382.	7.8	146
7	Facile Synthesis of Three-Dimensional Heteroatom-Doped and Hierarchical Egg-Box-Like Carbons Derived from <i>Moringa oleifera</i> Branches for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 33060-33071.	8.0	137
8	From biomass wastes to vertically aligned graphene nanosheet arrays: A catalyst-free synthetic strategy towards high-quality graphene for electrochemical energy storage. Chemical Engineering Journal, 2018, 336, 550-561.	12.7	128
9	Large-scale synthesis of porous carbon <i>via</i> one-step CuCl₂ activation of rape pollen for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 12046-12055.	10.3	126
10	Three-dimensional honeycomb-like hierarchically structured carbon for high-performance supercapacitors derived from high-ash-content sewage sludge. Journal of Materials Chemistry A, 2015, 3, 15225-15234.	10.3	125
11	Hierarchically porous carbon nanosheets derived from Moringa oleifera stems as electrode material for high-performance electric double-layer capacitors. Journal of Power Sources, 2017, 353, 260-269.	7.8	119
12	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. Electrochimica Acta, 2019, 327, 134999.	5.2	116
13	Amorphous Niâ€“Co Binary Oxide with Hierarchical Porous Structure for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2015, 7, 24419-24429.	8.0	82
14	Rational Synthesis of Highly Porous Carbon from Waste Bagasse for Advanced Supercapacitor Application. ACS Sustainable Chemistry and Engineering, 2018, 6, 15325-15332.	6.7	82
15	Mixed-Biomass Wastes Derived Hierarchically Porous Carbons for High-Performance Electrochemical Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 10393-10402.	6.7	78
16	Interconnected 3â€‰D Network of Grapheneâ€Oxide Nanosheets Decorated with Carbon Dots for Highâ€Performance Supercapacitors. ChemSusChem, 2017, 10, 2626-2634.	6.8	75
17	Microtube Bundle Carbon Derived from Paulownia Sawdust for Hybrid Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 4667-4677.	8.0	68
18	Mosaic-Structured SnO 2 @C Porous Microspheres for High-Performance Supercapacitor Electrode Materials. Electrochimica Acta, 2014, 142, 157-166.	5.2	67

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19	Bark-Based 3D Porous Carbon Nanosheet with Ultrahigh Surface Area for High Performance Supercapacitor Electrode Material. ACS Sustainable Chemistry and Engineering, 2019, 7, 13827-13835.	6.7	63
20	Hierarchical porous carbon with network morphology derived from natural leaf for superior aqueous symmetrical supercapacitors. Electrochimica Acta, 2017, 258, 504-511.	5.2	60
21	Enhanced photoluminescence and phosphorescence properties of red CaAlSiN₃:Eu²⁺ phosphor via simultaneous UV-NIR stimulation. Journal of Materials Chemistry C, 2015, 3, 4445-4451.	5.5	59
22	High-capacity porous carbons prepared by KOH activation of activated carbon for supercapacitors. Chinese Chemical Letters, 2014, 25, 865-868.	9.0	58
23	Facile Synthesis of Highly Porous Carbon from Rice Husk. ACS Sustainable Chemistry and Engineering, 2017, 5, 7111-7117.	6.7	56
24	The changing structure by component: Biomass-based porous carbon for high-performance supercapacitors. Journal of Colloid and Interface Science, 2021, 585, 778-786.	9.4	56
25	Simple, green and high-yield production of single- or few-layer graphene by hydrothermal exfoliation of graphite. Nanoscale, 2014, 6, 4598-4603.	5.6	54
26	Three-dimensional Nitrogen-doped graphene as binder-free electrode materials for supercapacitors with high volumetric capacitance and the synergistic effect between nitrogen configuration and supercapacitive performance. Electrochimica Acta, 2016, 218, 32-40.	5.2	54
27	Natural Plant Template-Derived Cellular Framework Porous Carbon as a High-Rate and Long-Life Electrode Material for Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 5845-5855.	6.7	53
28	Extraordinary Thickness-Independent Electrochemical Energy Storage Enabled by Cross-Linked Microporous Carbon Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 26946-26955.	8.0	51
29	Melaleuca bark based porous carbons for hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 11661-11667.	7.1	50
30	Insights into luminescence quenching and detecting trap distribution in Ba₂Si₅N₈:Eu²⁺phosphor with comprehensive considerations of temperature-dependent luminescence behaviors. Journal of Materials Chemistry C, 2015, 3, 9572-9579.	5.5	48
31	Double carbon dot assembled mesoporous aluminas: solid-state dual-emission photoluminescence and multifunctional applications. Journal of Materials Chemistry C, 2018, 6, 2495-2501.	5.5	46
32	Synthesis of Porous Carbon Material with Suitable Graphitization Strength for High Electrochemical Capacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 6601-6610.	6.7	46
33	Hierarchically Porous Carbon Derived from <i>Neolamarckia cadamba</i> for Electrochemical Capacitance and Hydrogen Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 15385-15393.	6.7	44
34	A mild method to prepare nitrogen-rich interlaced porous carbon nanosheets for high-performance supercapacitors. Journal of Colloid and Interface Science, 2021, 599, 381-389.	9.4	40
35	Effect of H 3 BO 3 flux on the morphology and optical properties of Sr 2 MgAl 22 O 36 :Mn 4+ red phosphors for agricultural light conversion films. Ceramics International, 2016, 42, 13011-13017.	4.8	39
36	Hierarchical NiO mesocrystals with tuneable high-energy facets for pseudocapacitive charge storage. Journal of Materials Chemistry A, 2017, 5, 6921-6927.	10.3	38

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37	KNO3-mediated synthesis of high-surface-area polyacrylonitrile-based carbon material for exceptional supercapacitors. Carbon, 2019, 152, 120-127.	10.3	38
38	Revealing contribution of pore size to high hydrogen storage capacity. International Journal of Hydrogen Energy, 2018, 43, 18077-18082.	7.1	36
39	Component Degradation-Enabled Preparation of Biomass-Based Highly Porous Carbon Materials for Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 15259-15266.	6.7	36
40	Small nitrogen-doped carbon dots as efficient nanoenhancer for boosting the electrochemical performance of three-dimensional graphene. Journal of Colloid and Interface Science, 2019, 536, 628-637.	9.4	34
41	Porous carbon with ultrahigh specific surface area derived from biomass rice hull. Materials Letters, 2014, 116, 185-187.	2.6	32
42	Highly porous carbon material from polycyclodextrin for high-performance supercapacitor electrode. Journal of Energy Storage, 2022, 53, 105036.	8.1	32
43	Bioinspired Highly Crumpled Porous Carbons with Multidirectional Porosity for High Rate Performance Electrochemical Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 12716-12726.	6.7	31
44	Facile construction of hollow carbon nanosphere-interconnected network for advanced sodium-ion battery anode. Journal of Colloid and Interface Science, 2019, 546, 53-59.	9.4	31
45	Effect of ball milling on hydrogen storage of Mg3La alloy. Journal of Rare Earths, 2008, 26, 303-306.	4.8	27
46	Microstructure engineering towards porous carbon materials derived from one biowaste precursor for multiple energy storage applications. Electrochimica Acta, 2019, 326, 134974.	5.2	27
47	A top-down method to fabricate SrAl2O4:Eu2+,Dy3+ nanosheets from commercial blocky phosphors. Optical Materials, 2014, 36, 1802-1807.	3.6	25
48	Optical Energy Storage Properties of (Ca_{1âˆ’<i>x</i>}Sr_{<i>x</i>})₂Si₅N₈: Eu²⁺, Tm³⁺ Solid Solutions. Journal of the American Ceramic Society, 2015, 98, 1823-1828.	3.8	25
49	Luminescent carbon dots assembled SBA-15 and its oxygen sensing properties. Sensors and Actuators B: Chemical, 2016, 230, 101-108.	7.8	24
50	Luminescence Properties of Red Long-Lasting Phosphorescence Phosphor AlN:Mn²⁺. ECS Journal of Solid State Science and Technology, 2013, 2, R117-R120.	1.8	22
51	Calcium-chloride-assisted approach towards green and sustainable synthesis of hierarchical porous carbon microspheres for high-performance supercapacitive energy storage. Journal of Colloid and Interface Science, 2021, 582, 159-166.	9.4	22
52	Degradation of biomass components to prepare porous carbon for exceptional hydrogen storage capacity. International Journal of Hydrogen Energy, 2021, 46, 5418-5426.	7.1	22
53	Large-scale synthesis and enhanced hydrogen storage of monodispersed sulfur-doped carbon microspheres by hydro-sulfur-thermal carbonization of starch. Materials Letters, 2013, 109, 279-282.	2.6	21
54	Preparation of <scp><scp>SrSi</scp></scp>₂<scp><scp>O</scp></scp>₂<scp><scp>N</scp></scp>₂:<scp><s Phosphor by <scp><scp>SrSi</scp></scp> Alloy Precursor and Its Longâ€lasting Phosphorescence Properties. Journal of the American Ceramic Society, 2013, 96, 1810-1814.	3.8	20

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55	Polyacrylonitrile-based highly porous carbon materials for exceptional hydrogen storage. International Journal of Hydrogen Energy, 2019, 44, 23210-23215.	7.1	20
56	Advanced nanonetwork-structured carbon materials for high-performance formaldehyde capture. Journal of Colloid and Interface Science, 2019, 537, 562-568.	9.4	20
57	Facile synthesis of FeCO3/nitrogen-doped carbon dot composites for lithium-ion battery anodes. Journal of Alloys and Compounds, 2020, 838, 155508.	5.5	20
58	Sodium alginate assisted preparation of oxygen-doped microporous carbons with enhanced electrochemical energy storage and hydrogen uptake. International Journal of Hydrogen Energy, 2021, 46, 896-905.	7.1	19
59	Red persistent and photo-stimulated luminescence properties of SrCaSi5N8: Eu2+, Tm3+ solid solution. Optical Materials, 2014, 36, 1855-1858.	3.6	18
60	Hydrogen storage performance of nano Ni decorated LiBH4 on activated carbon prepared through organic solvent. Journal of Alloys and Compounds, 2014, 612, 287-292.	5.5	17
61	Teflon: A Decisive Additive in Directly Fabricating Hierarchical Porous Carbon with Network Structure from Natural Leaf. ACS Sustainable Chemistry and Engineering, 2017, 5, 9307-9312.	6.7	17
62	An airâ€“metal hydride battery using MmNi3.6Mn0.4Al0.3Co0.7 in the anode and a perovskite in the cathode. International Journal of Hydrogen Energy, 2010, 35, 4336-4341.	7.1	16
63	Enhancement of Fluorescence Emission for Tricolor Quantum Dots Assembled in Polysiloxane toward Solar Spectrumâ€Simulated White Lightâ€Emitting Devices. Small, 2020, 16, e1905266.	10.0	16
64	Preparation and afterglow properties of highly condensed nitridosilicate BaSi7N10:Eu2+ phosphor. Journal of Luminescence, 2014, 152, 230-233.	3.1	15
65	Synthesis and Luminescence Properties of Flower-Like Sr2MgSi2O7 : Eu2+, Dy3+ Phosphor via Hydrothermal-Homogeneous Coprecipitation Route. ECS Solid State Letters, 2013, 2, R19-R22.	1.4	14
66	Preparation and properties of Sr2Si5N8:Eu2+â€“cellulose hybrid films for sunlight conversion. Cellulose, 2015, 22, 3337-3345.	4.9	13
67	Ordered mesoporous carbons with fiber- and rod-like morphologies for supercapacitor electrode materials. Materials Letters, 2015, 138, 37-40.	2.6	13
68	Engineering of nanonetwork-structured carbon to enable high-performance potassium-ion storage. Journal of Colloid and Interface Science, 2020, 561, 195-202.	9.4	13
69	Preparation and Long-Lasting Phosphorescence Properties of BaAlSi5N7O2:Eu2+. ECS Solid State Letters, 2013, 2, R16-R18.	1.4	12
70	Hierarchical Porous Carbons Derived from Rice Husk for Supercapacitors with High Activity and High Capacitance Retention Capability. ChemistrySelect, 2017, 2, 6438-6445.	1.5	12
71	Simple Additive-Free Method to Manganese Monoxide Mesocrystals and Their Template Application for the Synthesis of Carbon and Graphitic Hollow Octahedrons. ACS Applied Materials & Interfaces, 2013, 5, 12561-12570.	8.0	10
72	Structure and stability of high pressure synthesized MgTM2H6 (TM = Zr, Nb) hydrides. Acta Materialia, 2015, 96, 237-248.	7.9	10

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73	KCl-assisted activation: Moringa oleifera branch-derived porous carbon for high performance supercapacitor. New Journal of Chemistry, 2021, 45, 5712-5719.	2.8	10
74	Luminescence properties of silk cocoon derived carbonaceous fluorescent nanoparticles/PVA hybrid film. Optical Materials, 2014, 36, 1787-1791.	3.6	8
75	Controllable Synthesis of Carbon Dots@CaCO₃ Composites: Tunable Morphology, UV Absorption Properties, and Application as an Ultraviolet Absorber. Crystal Growth and Design, 2022, 22, 4357-4365.	3.0	8
76	Facile one-step and high-yield synthesis of few-layered and hierarchically porous boron nitride nanosheets. RSC Advances, 2016, 6, 45402-45409.	3.6	7
77	Rich N/O/S co-doped porous carbon with a high surface area from silkworm cocoons for superior supercapacitors. New Journal of Chemistry, 2019, 43, 19372-19378.	2.8	5
78	Solâ€"Gel-Derived Highly Sensitive Optical Oxygen Sensing Materials Using Ru(II) Complex via Covalent Grafting Strategy. Journal of Nanoscience and Nanotechnology, 2014, 14, 4615-4621.	0.9	4
79	Active Nanointerfaceâ€Assisted Coâ€Assembly to Yolkâ€"Shell Au@Ordered Mesoporous Carbon Nanospheres. Advanced Materials Interfaces, 2020, 7, 1901703.	3.7	3
80	Direct carbonization of black liquor powders into 3D honeycomb-like porous carbons with a tunable disordered degree for sodium-ion batteries. New Journal of Chemistry, 2020, 44, 10697-10702.	2.8	3
81	From Lychee Seeds to Hierarchical Fe₃O₄/Carbon Composite Anodes for Lithium-Ion Batteries: A High Additional Value Conversion-Based Self-Assembly Strategy. Energy & Fuels, 2022, 36, 5027-5035.	5.1	2
82	SYNTHESIS AND FORMATION MECHANISM OF STRAIGHT CARBON MICROTUBES BY A SIMPLE IN SITU TEMPLATE APPROACH. Functional Materials Letters, 2012, 05, 1250050.	1.2	0