

Wenjun Dong

List of Publications by Year in descending order

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88
papers

5,244
citations

71102

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88630

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docs citations

88
times ranked

5055
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-stabilized phase change materials based on porous supports for thermal energy storage applications. <i>Chemical Engineering Journal</i> , 2019, 356, 641-661.	12.7	459
2	Nanoconfinement effects on thermal properties of nanoporous shape-stabilized composite PCMs: A review. <i>Nano Energy</i> , 2018, 53, 769-797.	16.0	260
3	Highly graphitized 3D network carbon for shape-stabilized composite PCMs with superior thermal energy harvesting. <i>Nano Energy</i> , 2018, 49, 86-94.	16.0	200
4	Optimization strategies of composite phase change materials for thermal energy storage, transfer, conversion and utilization. <i>Energy and Environmental Science</i> , 2020, 13, 4498-4535.	30.8	181
5	Surface functionalization engineering driven crystallization behavior of polyethylene glycol confined in mesoporous silica for shape-stabilized phase change materials. <i>Nano Energy</i> , 2016, 19, 78-87.	16.0	172
6	A sandwich-like heterostructure of TiO ₂ nanosheets with MIL-100(Fe): A platform for efficient visible-light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 506-513.	20.2	149
7	Boosting Photocatalytic Hydrogen Production via Interfacial Engineering on 2D Ultrathin ZnIn ₂ S ₄ /g-C ₃ N ₄ Heterojunction. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	147
8	Hydrothermal synthesis and structure evolution of hierarchical cobalt sulfidenanostructures. <i>Dalton Transactions</i> , 2011, 40, 243-248.	3.3	146
9	Introduction of organic-organic eutectic PCM in mesoporous N-doped carbons for enhanced thermal conductivity and energy storage capacity. <i>Applied Energy</i> , 2018, 211, 1203-1215.	10.1	137
10	Carbon nanotube bundles assembled flexible hierarchical framework based phase change material composites for thermal energy harvesting and thermotherapy. <i>Energy Storage Materials</i> , 2020, 26, 129-137.	18.0	124
11	Bidentate carboxylate linked TiO ₂ with NH ₂ -MIL-101(Fe) photocatalyst: a conjugation effect platform for high photocatalytic activity under visible light irradiation. <i>Science Bulletin</i> , 2020, 65, 658-669.	9.0	117
12	Synthesis of porous carbon from cotton using an Mg(OH) ₂ template for form-stabilized phase change materials with high encapsulation capacity, transition enthalpy and reliability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8969-8977.	10.3	106
13	Smart integration of carbon quantum dots in metal-organic frameworks for fluorescence-functionalized phase change materials. <i>Energy Storage Materials</i> , 2019, 18, 349-355.	18.0	105
14	Multifunctional Nanowire Bioscaffolds on Titanium. <i>Chemistry of Materials</i> , 2007, 19, 4454-4459.	6.7	102
15	A novel enhancement of shape/thermal stability and energy-storage capacity of phase change materials through the formation of composites with 3D porous (3,6)-connected metal-organic framework. <i>Chemical Engineering Journal</i> , 2020, 389, 124430.	12.7	99
16	General Approach to Well-Defined Perovskite MTiO ₃ (M = Ba, Sr, Ca, and Mg) Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3918-3925.	3.1	96
17	Core-sheath structural carbon materials for integrated enhancement of thermal conductivity and capacity. <i>Applied Energy</i> , 2018, 217, 369-376.	10.1	91
18	Hierarchically nanostructured MnCo ₂ O ₄ as active catalysts for the synthesis of N-benzylideneaniline from benzyl alcohol and aniline. <i>Green Chemistry</i> , 2017, 19, 769-777.	9.0	89

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19	Light-facilitated structure reconstruction on self-optimized photocatalyst TiO ₂ @BiOCl for selectively efficient conversion of CO ₂ to CH ₄ . <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119832.	20.2	87
20	Nanoconfinement effects of N-doped hierarchical carbon on thermal behaviors of organic phase change materials. <i>Energy Storage Materials</i> , 2019, 18, 280-288.	18.0	86
21	Hierarchical 3D Reduced Graphene Porous-Carbon-Based PCMs for Superior Thermal Energy Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32093-32101.	8.0	85
22	The structural and biological properties of hydroxyapatite-modified titanate nanowire scaffolds. <i>Biomaterials</i> , 2011, 32, 5837-5846.	11.4	82
23	A sustainable method toward melamine-based conjugated polymer semiconductors for efficient photocatalytic hydrogen production under visible light. <i>Green Chemistry</i> , 2018, 20, 664-670.	9.0	77
24	Highly porous carbons derived from MOFs for shape-stabilized phase change materials with high storage capacity and thermal conductivity. <i>RSC Advances</i> , 2016, 6, 40106-40114.	3.6	71
25	Multifunctional, Catalytic Nanowire Membranes and the Membrane-Based 3D Devices. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16819-16822.	2.6	70
26	Photocatalytic Degradation of Acid Chrome Blue K with Porphyrin-Sensitized TiO ₂ under Visible Light. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14878-14882.	3.1	67
27	Heterogeneous Fe-MIL-101 catalysts for efficient one-pot four-component coupling synthesis of highly substituted pyrroles. <i>New Journal of Chemistry</i> , 2015, 39, 4919-4923.	2.8	67
28	Co(II) complexes loaded into metal-organic frameworks as efficient heterogeneous catalysts for aerobic epoxidation of olefins. <i>Catalysis Science and Technology</i> , 2016, 6, 161-168.	4.1	66
29	Boosting photocatalytic hydrogen evolution: Orbital redistribution of ultrathin ZnIn ₂ S ₄ nanosheets via atomic defects. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121007.	20.2	61
30	Construction of TiO ₂ nanosheets/tetra (4-carboxyphenyl) porphyrin hybrids for efficient visible-light photoreduction of CO ₂ . <i>Chemical Engineering Journal</i> , 2019, 374, 684-693.	12.7	56
31	Ni, In co-doped ZnIn ₂ S ₄ for efficient hydrogen evolution: Modulating charge flow and balancing H adsorption/desorption. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121337.	20.2	55
32	A performance study of enhanced visible-light-driven photocatalysis and magnetical protein separation of multifunctional yolk-shell nanostructures. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10030.	10.3	54
33	Construction of covalently integrated core-shell TiO ₂ nanobelts@COF hybrids for highly selective oxidation of alcohols under visible light. <i>Applied Surface Science</i> , 2019, 493, 551-560.	6.1	53
34	One-Pot Preparation of Hierarchical Nanosheet-Constructed Fe ₃ O ₄ /MIL-88B(Fe) Magnetic Microspheres with High Efficiency Photocatalytic Degradation of Dye. <i>ChemCatChem</i> , 2016, 8, 3510-3517.	3.7	52
35	A facile one-step synthesis of porous N-doped carbon from MOF for efficient thermal energy storage capacity of shape-stabilized phase change materials. <i>Materials Today Energy</i> , 2019, 12, 239-249.	4.7	51
36	Synthesis and Characterization of Paraffin/Metal Organic Gel Derived Porous Carbon/Boron Nitride Composite Phase Change Materials for Thermal Energy Storage. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 5167-5175.	2.0	47

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37	Alkylated Meso-Macroporous Metal-Organic Framework Hollow Tubes as Nanocontainers of Octadecane for Energy Storage and Thermal Regulation. <i>Small</i> , 2018, 14, e1801970.	10.0	46
38	Synthesis of Heparin-Immobilized, Magnetically Addressable Cellulose Nanofibers for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1905-1913.	5.2	44
39	Ambient pressure dried flexible silica aerogel for construction of monolithic shape-stabilized phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110122.	6.2	44
40	Highly dispersed Pt clusters encapsulated in MIL-125-NH ₂ via in situ auto-reduction method for photocatalytic H ₂ production under visible light. <i>Nano Research</i> , 2021, 14, 4250-4257.	10.4	43
41	Synthesis of a Fe ₃ O ₄ @CuO@meso-SiO ₂ nanostructure as a magnetically recyclable and efficient catalyst for styrene epoxidation. <i>Catalysis Science and Technology</i> , 2014, 4, 3082-3089.	4.1	41
42	Highly efficient sulfonated-polystyrene-Cu(II)@Cu ₃ (BTC) ₂ core-shell microsphere catalysts for base-free aerobic oxidation of alcohols. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4266-4273.	10.3	41
43	Vacuum-Dried Synthesis of Low-Density Hydrophobic Monolithic Bridged Silsesquioxane Aerogels for Oil/Water Separation: Effects of Acid Catalyst and Its Excellent Flexibility. <i>ACS Applied Nano Materials</i> , 2018, 1, 933-939.	5.0	39
44	Phase change materials stabilized by porous metal supramolecular gels: Gelation effect on loading capacity and thermal performance. <i>Chemical Engineering Journal</i> , 2020, 394, 124806.	12.7	39
45	Shape-Stabilized Phase Change Materials Based on Stearic Acid and Mesoporous Hollow SiO ₂ Microspheres (SA/SiO ₂) for Thermal Energy Storage. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2138-2143.	2.0	37
46	SO ₃ H-functionalized metal organic frameworks: an efficient heterogeneous catalyst for the synthesis of quinoxaline and derivatives. <i>RSC Advances</i> , 2016, 6, 35135-35143.	3.6	35
47	Preparation of hollow Ag/Pt heterostructures on TiO ₂ nanowires and their catalytic properties. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 344-350.	20.2	35
48	Synthesis of highly loaded and well dispersed CuO/SBA-15 via an ultrasonic post-grafting method and its application as a catalyst for the direct hydroxylation of benzene to phenol. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 47-53.	4.4	34
49	Carbon inserted defect-rich MoS ₂ -X nanosheets@CdS nanospheres for efficient photocatalytic hydrogen evolution under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 89-100.	9.4	34
50	Functionalization of electrospun nanofibers of natural cotton cellulose by cerium dioxide nanoparticles for ultraviolet protection. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1524-1529.	2.6	33
51	Preparation of hollow multiple-Ag-nanoclusters-C-shell nanostructures and their catalytic properties. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 13-19.	20.2	31
52	3D Self-Supported Porous NiO@NiMoO ₄ Core-Shell Nanosheets for Highly Efficient Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2019, 58, 6758-6764.	4.0	31
53	Biodegradable and Bioactive PCL@PGS Core-Shell Fibers for Tissue Engineering. <i>ACS Omega</i> , 2017, 2, 6321-6328.	3.5	30
54	Controlled Synthesis of 3D Flower-like Ni ₂ P Composed of Mesoporous Nanoplates for Overall Water Splitting. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2956-2961.	3.3	30

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55	One-pot synthesis of Ag@SiO ₂ @Ag sandwich nanostructures. <i>Nanotechnology</i> , 2010, 21, 245602.	2.6	29
56	Hierarchical Ni(OH) ₂ Composed of Ultrathin Nanosheets with Controlled Interlayer Distances and Their Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20476-20483.	8.0	29
57	One-pot synthesis of light-driven polymeric composite phase change materials based on N-doped porous carbon for enhanced latent heat storage capacity and thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 392-400.	6.2	29
58	Controllable synthesis and surface modification of molybdenum oxide nanowires: a short review. <i>Tungsten</i> , 2019, 1, 258-265.	4.8	28
59	In-situ derived graphene from solid sodium acetate for enhanced photothermal conversion, thermal conductivity, and energy storage capacity of phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110269.	6.2	28
60	Network Structural CNTs Penetrate Porous Carbon Support for Phase-Change Materials with Enhanced Electro-Thermal Performance. <i>Advanced Electronic Materials</i> , 2020, 6, 1901428.	5.1	26
61	Bionic sunflower-like structure of polydopamine-confined NiFe-based quantum dots for electrocatalytic oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120833.	20.2	25
62	Fabrication and characterization of electrospun nanofibers of high DP natural cotton lines cellulose. <i>Fibers and Polymers</i> , 2011, 12, 345-351.	2.1	24
63	PEG encapsulated by porous triamide-linked polymers as support for solid-liquid phase change materials for energy storage. <i>Chemical Physics Letters</i> , 2017, 671, 165-173.	2.6	24
64	Cu ₃ P Core-Shell Nanowires Attached to Nickel Foam as High-Performance Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 1083-1089.	3.3	24
65	One-Pot Redox Syntheses of Heteronanostructures of Ag Nanoparticles on MoO ₃ Nanofibers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5845-5848.	2.6	23
66	Room-temperature solution synthesis of Ag nanoparticle functionalized molybdenum oxide nanowires and their catalytic applications. <i>Nanotechnology</i> , 2012, 23, 425602.	2.6	23
67	Imine-linked micron-network polymers with high polyethylene glycol uptake for shaped-stabilized phase change materials. <i>RSC Advances</i> , 2016, 6, 44807-44813.	3.6	23
68	A one-step in-situ assembly strategy to construct PEG@MOG-100-Fe shape-stabilized composite phase change material with enhanced storage capacity for thermal energy storage. <i>Chemical Physics Letters</i> , 2018, 695, 99-106.	2.6	23
69	Controlled synthesis and self-assembly of dendrite patterns of Fe ₃ O ₄ nanoparticles. <i>Nanotechnology</i> , 2009, 20, 035601.	2.6	22
70	Porous organic-inorganic hybrid xerogels for stearic acid shape-stabilized phase change materials. <i>New Journal of Chemistry</i> , 2017, 41, 1790-1797.	2.8	22
71	Difference between Metal-S and Metal-O Bond Orders: A Descriptor of Oxygen Evolution Activity for Isolated Metal Atom-Doped MoS ₂ Nanosheets. <i>IScience</i> , 2019, 20, 481-488.	4.1	21
72	Atomically dispersed ruthenium sites on whisker-like secondary microstructure of porous carbon host toward highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3203-3210.	10.3	20

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73	Self-assembly engineering toward large-area defect-rich TiO ₂ (B) nanosheets-based free-standing films for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 448, 227458.	7.8	18
74	Construction of dual-Z-scheme WS ₂ -WO ₃ ·H ₂ O/g-C ₃ N ₄ catalyst for photocatalytic H ₂ evolution under visible light. <i>Chemical Engineering Journal</i> , 2021, 426, 130822.	12.7	18
75	The reinforced photothermal effect of conjugated dye/graphene oxide-based phase change materials: Fluorescence resonance energy transfer and applications in solar-thermal energy storage. <i>Chemical Engineering Journal</i> , 2022, 428, 130605.	12.7	17
76	The formation and UV-blocking property of flower-like ZnO nanorod on electrospun natural cotton cellulose nanofibers. <i>Fibers and Polymers</i> , 2014, 15, 281-285.	2.1	16
77	Hierarchical nitrogen-doped porous carbon incorporating cobalt nanocrystal sites for nitrophenol reduction. <i>Chemical Engineering Science</i> , 2020, 217, 115525.	3.8	16
78	Approaching Theoretical Capacities in Thick Lithium Vanadium Phosphate Electrodes at High Charge/Discharge Rates. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15608-15617.	6.7	14
79	In-situ Self-transformation Synthesis of N-doped Carbon Coating Paragenetic Anatase/Rutile Heterostructure with Enhanced Photocatalytic CO ₂ Reduction Activity. <i>ChemCatChem</i> , 2020, 12, 3274-3284.	3.7	14
80	Hetero-nanostructure of silver nanoparticles on MO _x (M = Mo, Ti and Si) and their applications. <i>Science China Chemistry</i> , 2011, 54, 865.	8.2	11
81	A Facile Approach for Transferring PbS Colloidal Photonic Structures into Alkanol Solutions and Composite Solid Films. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1204-1209.	2.0	8
82	Microstructural evolution and mechanical properties of hot pressed WC±Al ₂ O ₃ with Y ₂ O ₃ and CeO ₂ . <i>Advances in Applied Ceramics</i> , 2016, 115, 316-321.	1.1	8
83	Synthesis of N-TiO ₂ @NH ₂ -MIL-88(Fe) Core-shell Structure for Efficient Fenton Effect Assisted Methylene Blue Degradation Under Visible Light. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1068-1075.	2.6	8
84	Fabrication and Elastic Properties of TiO ₂ Nanohelix Arrays through a Pressure-Induced Hydrothermal Method. <i>ACS Nano</i> , 2021, 15, 14174-14184.	14.6	7
85	Formation of the First Derivatives of Endohedral Diterbium Fullerenes via Carbene Addition to a Large Carbon Cage. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 1018-1023.	2.1	4
86	Assembly of flexible nanohelix films: stress-exporting insights into the electrochemical performance of lithium-ion batteries. <i>Materials Today Nano</i> , 2021, 16, 100141.	4.6	4
87	Highlights on inorganic solid state chemistry and energy materials. <i>Science China Technological Sciences</i> , 2012, 55, 3248-3252.	4.0	2
88	A simple approach to porous low-temperature-sintering BaTiO ₃ . <i>Science China Chemistry</i> , 2012, 55, 1765-1769.	8.2	2