Chunming Niu

List of Publications by Year
in descending order

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87	8,495	57758	54911
papers	citations	44 h-index	84 g-index

88	88	88	10429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High power electrochemical capacitors based on carbon nanotube electrodes. Applied Physics Letters, 1997, 70, 1480-1482.	3.3	1,300
2	High-performance thin-film transistors using semiconductor nanowires and nanoribbons. Nature, 2003, 425, 274-278.	27.8	895
3	Experimental Realization of the Covalent Solid Carbon Nitride. Science, 1993, 261, 334-337.	12.6	878
4	Highly Efficient Flexible Perovskite Solar Cells Using Solution-Derived NiO_x Hole Contacts. ACS Nano, 2016, 10, 3630-3636.	14.6	426
5	Manganese oxide-based catalysts for low-temperature selective catalytic reduction of NO x with NH 3 : A review. Applied Catalysis A: General, 2016, 522, 54-69.	4.3	394
6	Highly Efficient Photocatalyst Based on a CdS Quantum Dots/ZnO Nanosheets 0D/2D Heterojunction for Hydrogen Evolution from Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 25377-25386.	8.0	235
7	Rational design of CdS@ZnO core-shell structure via atomic layer deposition for drastically enhanced photocatalytic H2 evolution with excellent photostability. Nano Energy, 2017, 39, 183-191.	16.0	195
8	Pseudo-topotactic conversion of carbon nanotubes to T-carbon nanowires under picosecond laser irradiation in methanol. Nature Communications, 2017, 8, 683.	12.8	184
9	Gd-modified MnOx for the selective catalytic reduction of NO by NH3: The promoting effect of Gd on the catalytic performance and sulfur resistance. Chemical Engineering Journal, 2018, 348, 820-830.	12.7	170
10	Rationally Designed Porous MnO_xâ€“FeO_x Nanoneedles for Low-Temperature Selective Catalytic Reduction of NO_x by NH₃. ACS Applied Materials & Interfaces, 2017, 9, 16117-16127.	8.0	164
11	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. ACS Nano, 2018, 12, 3406-3416.	14.6	149
12	Au decorated hollow ZnO@ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. Applied Catalysis B: Environmental, 2019, 244, 748-757.	20.2	144
13	Mn/CeO 2 catalysts for SCR of NO x with NH 3 : comparative study on the effect of supports on low-temperature catalytic activity. Applied Surface Science, 2017, 411, 338-346.	6.1	142
14	"Fast SCR" reaction over Sm-modified MnOx-TiO2 for promoting reduction of NOx with NH3. Applied Catalysis A: General, 2018, 564, 102-112.	4.3	130
15	WS₂/Graphitic Carbon Nitride Heterojunction Nanosheets Decorated with CdS Quantum Dots for Photocatalytic Hydrogen Production. ChemSusChem, 2018, 11, 1187-1197.	6.8	129
16	Fabrication of gâ€C₃N₄/Au/Câ€TiO₂ Hollow Structures as Visibleâ€Lightâ€Driven Zâ€Scheme Photocatalysts with Enhanced Photocatalytic H₂ Evolution. ChemCatChem, 2017, 9, 3752-3761.	3.7	114
17	Defect chemistry and lithium transport in Li₃OCl anti-perovskite superionic conductors. Physical Chemistry Chemical Physics, 2015, 17, 32547-32555.	2.8	105
18	Honeycomb-like carbon nanoflakes as a host for SnO₂ nanoparticles allowing enhanced lithium storage performance. Journal of Materials Chemistry A, 2017, 5, 6817-6824.	10.3	101

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19	Multiple carrier-transfer pathways in a flower-like In₂S₃/CdIn₂S₄/In₂O₃ ternary heterostructure for enhanced photocatalytic hydrogen production. Nanoscale, 2018, 10, 7860-7870.	5.6	98
20	MnM2O4 microspheres (M = Co, Cu, Ni) for selective catalytic reduction of NO with NH3: Comparative study on catalytic activity and reaction mechanism via in-situ diffuse reflectance infrared Fourier transform spectroscopy. Chemical Engineering Journal, 2017, 325, 91-100.	12.7	95
21	Sulfur and Water Resistance of Mn-Based Catalysts for Low-Temperature Selective Catalytic Reduction of NOx: A Review. Catalysts, 2018, 8, 11.	3.5	94
22	Porous Co2VO4 Nanodisk as a High-Energy and Fast-Charging Anode for Lithium-Ion Batteries. Nano-Micro Letters, 2022, 14, 5.	27.0	93
23	Direct growth of 3D host on Cu foil for stable lithium metal anode. Energy Storage Materials, 2018, 13, 323-328.	18.0	92
24	Comprehensive understanding the promoting effect of Dy-doping on MnFeOx nanowires for the low-temperature NH3-SCR of NOx: An experimental and theoretical study. Journal of Catalysis, 2019, 380, 55-67.	6.2	85
25	In Situ Synthesis of Carbon Nanotube Hybrids with Alternate MoC and MoS₂ to Enhance the Electrochemical Activities of MoS₂. Nano Letters, 2015, 15, 5268-5272.	9.1	84
26	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. Journal of Materials Chemistry A, 2018, 6, 5652-5660.	10.3	71
27	Synthesis of SnO₂versus Sn crystals within N-doped porous carbon nanofibers via electrospinning towards high-performance lithium ion batteries. Nanoscale, 2016, 8, 7595-7603.	5.6	69
28	Coreâ€“Shell Co₂VO₄/Carbon Composite Anode for Highly Stable and Fast-Charging Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 55020-55028.	8.0	65
29	Assembly of Ringâ€Shaped Phosphorus within Carbon Nanotube Nanoreactors. Angewandte Chemie - International Edition, 2017, 56, 1850-1854.	13.8	64
30	Eu-Mn-Ti mixed oxides for the SCR of NOx with NH3: The effects of Eu-modification on catalytic performance and mechanism. Fuel Processing Technology, 2017, 167, 322-333.	7.2	64
31	The lithium and sodium storage performances of phosphorus and its hierarchical structure. Nano Research, 2019, 12, 1-17.	10.4	63
32	MnOx-CeO2 shell-in-shell microspheres for NH3-SCR de-NOx at low temperature. Catalysis Communications, 2016, 86, 36-40.	3.3	61
33	Carbon nanotube transparent conducting films. MRS Bulletin, 2011, 36, 766-773.	3.5	60
34	Stable 1T-phase MoS₂ as an effective electron mediator promoting photocatalytic hydrogen production. Nanoscale, 2018, 10, 9292-9303.	5.6	60
35	Preparation of nanographite sheets supported Si nanoparticles by in situ reduction of fumed SiO 2 with magnesium for lithium ion battery. Journal of Power Sources, 2015, 281, 425-431.	7.8	57
36	Charge-redistribution-induced new active sites on (0â€¯0â€¯1) facets of Î±-Mn2O3 for significantly enhanced selective catalytic reduction of NO by NH3. Journal of Catalysis, 2019, 370, 30-37.	6.2	54

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37	Growth of Ultrafine SnO 2 Nanoparticles within Multiwall Carbon Nanotube Networks: Non-Solution Synthesis and Excellent Electrochemical Properties as Anodes for Lithium Ion Batteries. Electrochimica Acta, 2015, 178, 778-785.	5.2	52
38	Nanocarved MoS₂â€“MoO₂ Hybrids Fabricated Using in Situ Grown MoS₂ as Nanomasks. ACS Nano, 2016, 10, 9509-9515.	14.6	52
39	Template synthesis of graphitic hollow carbon nanoballs as supports for SnO_x nanoparticles towards enhanced lithium storage performance. Nanoscale, 2018, 10, 6159-6167.	5.6	50
40	Epitaxial Growth of Urchinâ€Like CoSe₂ Nanorods from Electrospun Coâ€Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties. Particle and Particle Systems Characterization, 2017, 34, 1700185.	2.3	49
41	Hydrothermal Synthesis of SnO2 Embedded MoO3-x Nanocomposites and Their Synergistic Effects on Lithium Storage. Electrochimica Acta, 2016, 216, 79-87.	5.2	48
42	Ternary Snâ€“Tiâ€“O Based Nanostructures as Anodes for Lithium Ion Batteries. Small, 2015, 11, 1364-1383.	10.0	47
43	The synergistic effects between Ce and Cu in Cu_yCe_{1âˆ’y}W₅O_x catalysts for enhanced NH₃-SCR of NO_x and SO₂ tolerance. Catalysis Science and Technology, 2019, 9, 718-730.	4.1	47
44	Ni3Si2 nanowires grown in situ on Ni foam for high-performance supercapacitors. Journal of Power Sources, 2016, 320, 13-19.	7.8	44
45	Au Nanoparticle and CdS Quantum Dot Codecoration of In₂O₃ Nanosheets for Improved H₂ Evolution Resulting from Efficient Light Harvesting and Charge Transfer. ACS Sustainable Chemistry and Engineering, 2019, 7, 547-557.	6.7	44
46	C-doped mesoporous anatase TiO 2 comprising 10 nm crystallites. Journal of Colloid and Interface Science, 2016, 476, 1-8.	9.4	42
47	Efficient spatial charge separation and transfer in ultrathin g-C₃N₄ nanosheets modified with Cu₂MoS₄ as a noble metal-free co-catalyst for superior visible light-driven photocatalytic water splitting. Catalysis Science and Technology, 2018, 8, 3883-3893.	4.1	42
48	Highly Crystallized C-Doped Mesoporous Anatase TiO2 with Visible Light Photocatalytic Activity. Catalysts, 2016, 6, 117.	3.5	39
49	A Hierarchical Phosphorus Nanobarbed Nanowire Hybrid: Its Structure and Electrochemical Properties. Nano Letters, 2017, 17, 3376-3382.	9.1	39
50	Mnâˆ’Co Mixed Oxide Nanosheets Vertically Anchored on H₂Ti₃O₇ Nanowires: Full Exposure of Active Components Results in Significantly Enhanced Catalytic Performance. ChemCatChem, 2018, 10, 2833-2844.	3.7	39
51	Ligninâ€Derived Holey, Layered, and Thermally Conductive 3D Scaffold for Lithium Dendrite Suppression. Small Methods, 2019, 3, 1800539.	8.6	39
52	Enhanced cycling stability of ring-shaped phosphorus inside multi-walled carbon nanotubes as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 2540-2548.	10.3	39
53	Carbon nanotube hybrids with MoS2 and WS2 synthesized with control of crystal structure and morphology. Carbon, 2015, 85, 168-175.	10.3	38
54	Interfacial engineering of Si/multi-walled carbon nanotube nanocomposites towards enhanced lithium storage performance. Carbon, 2016, 107, 600-606.	10.3	36

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55	Synthesis of Hierarchical Sb₂MoO₆ Architectures and Their Electrochemical Behaviors as Anode Materials for Li-Ion Batteries. Inorganic Chemistry, 2016, 55, 7012-7019.	4.0	35
56	Adsorption and Deposition of Li₂O₂ on the Pristine and Oxidized TiC Surface by First-principles Calculation. Journal of Physical Chemistry C, 2015, 119, 25684-25695.	3.1	32
57	Bird's nest-like nanographene shell encapsulated Si nanoparticles â€“ Their structural and Li anode properties. Journal of Power Sources, 2017, 341, 46-52.	7.8	32
58	Adsorption and Deposition of Li₂O₂ on TiC{111} Surface. Journal of Physical Chemistry Letters, 2014, 5, 3919-3923.	4.6	30
59	NiyCo1-yMn2Ox microspheres for the selective catalytic reduction of NOx with NH3: The synergetic effects between Ni and Co for improving low-temperature catalytic performance. Applied Catalysis A: General, 2018, 560, 1-11.	4.3	29
60	MnO x -TiO 2 and Sn doped MnO x -TiO 2 selective reduction catalysts prepared using MWCNTs as the pore template. Chemical Engineering Journal, 2017, 327, 1-8.	12.7	28
61	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. Journal of Molecular Catalysis A, 2015, 399, 79-85.	4.8	27
62	SnO₂nanoarrays for energy storage and conversion. CrystEngComm, 2015, 17, 5593-5604.	2.6	27
63	Construction of three-dimensional ordered porous carbon bulk networks for high performance lithium-sulfur batteries. Journal of Colloid and Interface Science, 2019, 533, 445-451.	9.4	25
64	Pyrolytic synthesis of MoO3 nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. Journal of Colloid and Interface Science, 2018, 514, 686-693.	9.4	24
65	Binding SnO2 nanoparticles onto carbon nanotubes with assistance of amorphous MoO3 towards enhanced lithium storage performance. Journal of Colloid and Interface Science, 2017, 504, 230-237.	9.4	22
66	Two-dimensional eclipsed arrangement hybrid perovskites for tunable energy level alignments and photovoltaics. Journal of Materials Chemistry C, 2019, 7, 5139-5147.	5.5	22
67	Assembly of Ringâ€Shaped Phosphorus within Carbon Nanotube Nanoreactors. Angewandte Chemie, 2017, 129, 1876-1880.	2.0	21
68	TiC MXene High Energy Density Cathode for Lithiumâ€“Air Battery. Advanced Theory and Simulations, 2018, 1, 1800059.	2.8	21
69	Silicon carbide nanowire covered by vertically oriented graphene for enhanced electromagnetic wave absorption performance. Chemical Physics, 2020, 529, 110574.	1.9	21
70	Chemical vapor deposition growth of carbon nanotube confined nickel sulfides from porous electrospun carbon nanofibers and their superior lithium storage properties. Nanoscale Advances, 2019, 1, 656-663.	4.6	17
71	Carbon-doped titania nanoplates with exposed {001} facets: facile synthesis, characterization and visible-light photocatalytic performance. RSC Advances, 2015, 5, 17667-17675.	3.6	16
72	Porous MnOx for low-temperature NH3-SCR of NOx: the intrinsic relationship between surface physicochemical property and catalytic activity. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	15

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73	Carbon-doped titania flakes with an octahedral bipyramid skeleton structure for the visible-light photocatalytic mineralization of ciprofloxacin. RSC Advances, 2015, 5, 98361-98365.	3.6	14
74	Core-shell structured carbon nanotubes/N-doped carbon layer nanocomposites for supercapacitor electrodes. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	14
75	Rock-salt and helix structures of silver iodides under ambient conditions. National Science Review, 2019, 6, 767-774.	9.5	11
76	A Facile Path to Grapheneâ€Wrapped Polydopamineâ€Entwined Silicon Nanoparticles with High Electrochemical Performance. ChemPlusChem, 2019, 84, 203-209.	2.8	9
77	Synthesis and luminescence studies of mixed phase LiCa3MgV3-XWXO12 phosphors for enhanced quantum yield. Journal of Luminescence, 2021, 234, 117948.	3.1	7
78	Constructing hollow silkworm structure in MnOxâ€“TiO2 catalysts for improving the performance in selective catalytic reduction of NO by NH3. Reaction Kinetics, Mechanisms and Catalysis, 2019, 128, 681-693.	1.7	5
79	Ultrathin dense double-walled carbon nanotube membrane for enhanced lithium-sulfur batteries. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	5
80	PEDOT-Coated Red Phosphorus Nanosphere Anodes for Pseudocapacitive Potassium-Ion Storage. Nanomaterials, 2021, 11, 1732.	4.1	5
81	Ni3Si2@TiO2 furs for supercapacitors with extremely high areal density and high cycleability. Journal of Alloys and Compounds, 2021, 858, 157711.	5.5	4
82	Layered Hexagonal Oxycarbides, Mn+1AO2Xn (M = Sc, Y, La, Cr, and Mo; A = Ca; X = C): Unexpected Photovoltaic Ceramics. Journal of Physical Chemistry C, 2018, 122, 14240-14247.	3.1	3
83	Inâ€doped LiCa_{2.98}MgV₃O₁₂ rareâ€earthâ€free phosphor with a high photoluminescence quantum yield of 67.4%. Journal of the American Ceramic Society, 2021, 104, 5837-5847.	3.8	3
84	Classification of MAOX phases and semiconductor screening for next-generation energy conversion ceramic materials. Journal of Materials Chemistry C, 2019, 7, 6895-6899.	5.5	1
85	Energy Storage: Ternary Sn-Ti-O Based Nanostructures as Anodes for Lithium Ion Batteries (Small) Tj ETQq1 1 0.784314 rgBT /Overloc	10.0	0
86	Preparation and Characterization of Epoxy and Hollow Ceramic Spheres Composites. , 2018, , .		0
87	Preparation and Characterization of Epoxy and Hollow Ceramic Spheres Composites. , 2018, , .		0