Guohua Gao

List of Publications by Year
in descending order

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82 papers	3,871 citations	147566 31 h-index	128067 60 g-index
83 all docs	83 docs citations	83 times ranked	5590 citing authors

#	Article	IF	Citations
1	Medium-scale production of gasochromic windows by sol-gel. Journal of Sol-Gel Science and Technology, 2023, 106, 331-340.	1.1	8
2	Suppressing the metal-metal interaction by CoZn0.5V1.5O4 derived from two-dimensional metal-organic frameworks for supercapacitors. Science China Materials, 2022, 65, 105-114.	3.5	14
3	Coherent V4+-rich V2O5/carbon aerogel nanocomposites for high performance supercapacitors. Science China Materials, 2022, 65, 1797-1804.	3.5	8
4	Effects of Valence States of Working Cations on the Electrochemical Performance of Sodium Vanadate. ACS Applied Materials & Interfaces, 2022, 14, 19714-19724.	4.0	2
5	Unraveling the electronegativity-dominated intermediate adsorption on high-entropy alloy electrocatalysts. Nature Communications, 2022, 13, 2662.	5.8	196
6	Hybrid Lithographic Arbitrary Patterning of TiO₂ Nanorod Arrays. ACS Omega, 2022, 7, 22039-22045.	1.6	3
7	Selfâ€Standing Nanofiber Electrodes with Ptâ€“Co Derived from Electrospun Zeolitic Imidazolate Framework for High Temperature PEM Fuel Cells. Advanced Functional Materials, 2021, 31, 2006771.	7.8	27
8	Nanofiber Electrodes: Selfâ€Standing Nanofiber Electrodes with Ptâ€“Co Derived from Electrospun Zeolitic Imidazolate Framework for High Temperature PEM Fuel Cells (Adv. Funct. Mater. 7/2021). Advanced Functional Materials, 2021, 31, 2170047.	7.8	0
9	è¡¨é¢æ°§åŒ–æž„å»ºPPy@VNO/NGæ¸å£³ç»“æž„ä½œä¸ºé•¿å¯¿å‘½è¶…çº§ç”µå®¹å™¨è´Ÿæžæ–™. Science China Materials, 2021, 64, 21	7.8	0
10	Nanoporous WO₃ Gasochromic Films for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 8368-8375.	2.4	13
11	Sodium vanadate/PEDOT nanocables rich with oxygen vacancies for high energy conversion efficiency zinc ion batteries. Energy Storage Materials, 2021, 40, 209-218.	9.5	86
12	Highly Thermally Stable and Transparent WO₃â€“SiO₂ Gasochromic Films Obtained by an Automated Printing Method. ACS Sustainable Chemistry and Engineering, 2021, 9, 17319-17329.	3.2	9
13	Thermal conductivity of V₂O₅ nanowires and their contact thermal conductance. Nanoscale, 2020, 12, 1138-1143.	2.8	15
14	Synthesis of Metal Oxide/Carbon Nanofibers via Biostructure Confinement as High-Capacity Anode Materials. ACS Applied Materials & Interfaces, 2020, 12, 29566-29574.	4.0	2
15	Preparation of Hydrophobic PPy Coated V₂O₅ Yolkâ€“Shell Nanospheres-Based Cathode Materials with Excellent Cycling Performance. ACS Applied Energy Materials, 2020, 3, 2791-2802.	2.5	17
16	Decreasing Ion-Diffusion Barrier Enables Superior Na-Ion Storage by Synergizing Hierarchical Architecture and Lattice Distortion. ACS Applied Materials & Interfaces, 2019, 11, 27024-27032.	4.0	16
17	V₂O₅â€“Conductive polymer nanocables with built-in local electric field derived from interfacial oxygen vacancies for high energy density supercapacitors. Journal of Materials Chemistry A, 2019, 7, 17966-17973.	5.2	53
18	Low-Electronegativity Vanadium Substitution in Cobalt Carbide Induced Enhanced Electron Transfer for Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 43261-43269.	4.0	49

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19	Interface Engineering V₂O₅ Nanofibers for Highâ€Energy and Durable Supercapacitors. Small, 2019, 15, e1901747.	5.2	66
20	Fast hydrogen diffusion induced by hydrogen pre-split for gasochromic based optical hydrogen sensors. International Journal of Hydrogen Energy, 2019, 44, 15665-15676.	3.8	16
21	Flexible gasochromic films with favorable high temperature resistance and energy efficiency. Solar Energy Materials and Solar Cells, 2019, 195, 63-70.	3.0	17
22	Swelling Poly(ionic liquid) Supported by Three-Dimensional Wire Mesh for Oil/Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 14347-14353.	4.0	30
23	Understanding the electrochemical potential and diffusivity of MnO/C nanocomposites at various charge/discharge states. Journal of Materials Chemistry A, 2019, 7, 7831-7842.	5.2	34
24	Tailoring Energy and Power Density through Controlling the Concentration of Oxygen Vacancies in V₂O₅/PEDOT Nanocable-Based Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 16647-16655.	4.0	57
25	Constructing metallic zincâ€“cobalt sulfide hierarchical coreâ€“shell nanosheet arrays derived from 2D metalâ€“organic-frameworks for flexible asymmetric supercapacitors with ultrahigh specific capacitance and performance. Journal of Materials Chemistry A, 2019, 7, 7138-7150.	5.2	82
26	First-principles study of VPO₄O as a cathode material for rechargeable Mg batteries. Physical Chemistry Chemical Physics, 2019, 21, 4947-4952.	1.3	5
27	Synthesis and characterization of carbon supported V2O5 nanotubes and their electrochemical properties. Journal of Alloys and Compounds, 2019, 772, 429-437.	2.8	9
28	Gradient Oxygen Vacancies in V₂O₅/PEDOT Nanocables for High-Performance Supercapacitors. ACS Applied Energy Materials, 2019, 2, 668-677.	2.5	58
29	Agglomeration-resistant 2D nanoflakes configured with super electronic networks for extraordinary fast and stable sodium-ion storage. Nano Energy, 2019, 56, 502-511.	8.2	27
30	A facile strategy for fabricating hierarchical nanocomposites of V₂O₅nanowire arrays on a three-dimensional N-doped graphene aerogel with a synergistic effect for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9938-9947.	5.2	74
31	Nanofibers of V2O5/C@MWCNTs as the cathode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2385-2393.	1.2	7
32	Thermal, electrochemical and radiolytic stabilities of ionic liquids. Physical Chemistry Chemical Physics, 2018, 20, 8382-8402.	1.3	248
33	Tandem gasochromic-Pd-WO3/graphene/Si device for room-temperature high-performance optoelectronic hydrogen sensors. Carbon, 2018, 130, 281-287.	5.4	56
34	Toward Superior Capacitive Energy Storage: Recent Advances in Pore Engineering for Dense Electrodes. Advanced Materials, 2018, 30, e1705713.	11.1	195
35	Statistical analysis on hollow and core-shell structured vanadium oxide microspheres as cathode materials for Lithium ion batteries. Data in Brief, 2018, 18, 719-722.	0.5	4
36	Self-assembled 3D N-CNFs/V2O5 aerogels with core/shell nanostructures through vacancies control and seeds growth as an outstanding supercapacitor electrode material. Carbon, 2018, 132, 667-677.	5.4	68

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37	Template-free synthesis of porous V2O5 yolk-shell microspheres as cathode materials for lithium ion batteries. Journal of Alloys and Compounds, 2018, 735, 109-116.	2.8	28
38	Formation of Si Hollow Structures as Promising Anode Materials through Reduction of Silica in AlCl₃â€“NaCl Molten Salt. ACS Nano, 2018, 12, 11481-11490.	7.3	84
39	Electrocatalytic Nanomaterials: Atomicâ€Scale Core/Shell Structure Engineering Induces Precise Tensile Strain to Boost Hydrogen Evolution Catalysis (Adv. Mater. 26/2018). Advanced Materials, 2018, 30, 1870191.	11.1	1
40	Synthesis and characterization of various V2O5 microsphere structures and their electrochemical performance. Journal of Alloys and Compounds, 2018, 757, 177-187.	2.8	6
41	Atomicâ€Scale Core/Shell Structure Engineering Induces Precise Tensile Strain to Boost Hydrogen Evolution Catalysis. Advanced Materials, 2018, 30, e1707301.	11.1	148
42	A facile strategy for the synthesis of graphene/V₂O₅ nanospheres and graphene/VN nanospheres derived from a single graphene oxide-wrapped VO_x nanosphere precursor for hybrid supercapacitors. RSC Advances, 2018, 8, 27924-27934.	1.7	9
43	Large interlayer spacing vanadium oxide nanotubes as cathodes for high performance sodium ion batteries. RSC Advances, 2018, 8, 22053-22061.	1.7	11
44	Novel three-dimensional island-chain structured V₂O₅/graphene/MWCNT hybrid aerogels for supercapacitors with ultralong cycle life. RSC Advances, 2017, 7, 7179-7187.	1.7	31
45	Carbon nanotubes/vanadium oxide composites as cathode materials for lithium-ion batteries. Journal of Sol-Gel Science and Technology, 2017, 82, 224-232.	1.1	13
46	Synthesis and characterization of Fe-doped vanadium oxide nanorods and their electrochemical performance. Journal of Alloys and Compounds, 2017, 715, 374-383.	2.8	24
47	A low cost preparation of WO₃ nanospheres film with improved thermal stability of gasochromic and its application in smart windows. Materials Research Express, 2017, 4, 115702.	0.8	15
48	Gasochromic properties of novel tungsten oxide thin films compounded with methyltrimethoxysilane (MTMS). RSC Advances, 2017, 7, 41289-41296.	1.7	10
49	Enhanced electrochemical performance of electrospun V2O5 nanotubes as cathodes for lithium ion batteries. Journal of Alloys and Compounds, 2017, 726, 922-929.	2.8	22
50	Graphene-templated carbon aerogels combining with ultra-high electrical conductivity and ultra-low thermal conductivity. Microporous and Mesoporous Materials, 2017, 253, 71-79.	2.2	40
51	Synthesis and characterization of hollow and core-shell structured V2O5 microspheres and their electrochemical properties. Journal of Alloys and Compounds, 2017, 725, 923-934.	2.8	15
52	Synthesis and characterization of novel hierarchical starfish-like vanadium oxide and their electrochemical performance. Electrochimica Acta, 2016, 188, 625-635.	2.6	22
53	Gasochromic smart window: optical and thermal properties, energy simulation and feasibility analysis. Solar Energy Materials and Solar Cells, 2016, 144, 316-323.	3.0	121
54	When Cubic Cobalt Sulfide Meets Layered Molybdenum Disulfide: A Coreâ€“Shell System Toward Synergetic Electrocatalytic Water Splitting. Advanced Materials, 2015, 27, 4752-4759.	11.1	705

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55	A new method to prepare vanadium oxide nano-urchins as a cathode for lithium ion batteries. RSC Advances, 2015, 5, 47522-47528.	1.7	21
56	Controlled synthesis of V₂O₅/MWCNT core/shell hybrid aerogels through a mixed growth and self-assembly methodology for supercapacitors with high capacitance and ultralong cycle life. Journal of Materials Chemistry A, 2015, 3, 15692-15699.	5.2	82
57	Self-assembled three-dimensional hierarchical porous V₂O₅/graphene hybrid aerogels for supercapacitors with high energy density and long cycle life. Journal of Materials Chemistry A, 2015, 3, 1828-1832.	5.2	178
58	MgVPO₄F as a one-dimensional Mg-ion conductor for Mg ion battery positive electrode: a first principles calculation. RSC Advances, 2014, 4, 15014-15017.	1.7	32
59	Engineering of coloration responses of porous WO₃ gasochromic films by ultraviolet irradiation. RSC Advances, 2014, 4, 30300-30307.	1.7	24
60	Ordered mesoporous WO₃film with outstanding gasochromic properties. Journal of Materials Chemistry A, 2014, 2, 585-590.	5.2	57
61	Carbon black anchored vanadium oxide nanobelts and their post-sintering counterpart (V2O5) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Chemical Physics, 2014, 16, 3973.	1.3	62
62	Tavorite-FeSO₄F as a potential cathode material for Mg ion batteries: a first principles calculation. Physical Chemistry Chemical Physics, 2014, 16, 22974-22978.	1.3	15
63	A facile method to prepare bi-phase lithium vanadate as cathode materials for Li-ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 2459-2467.	1.2	9
64	Multiwalled carbon nanotubesâ€“V2O5 integrated composite with nanosized architecture as a cathode material for high performance lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 15459.	5.2	67
65	A novel and facile way to synthesize vanadium pentoxide nanospike as cathode materials for high performance lithium ion batteries. Journal of Power Sources, 2013, 238, 95-102.	4.0	32
66	An investigation on the assembling of WO3 particles on the matrix of silica solution. Journal of Sol-Gel Science and Technology, 2012, 64, 427-435.	1.1	9
67	Phase transition effect on durability of WO3 hydrogen sensing films: An insight by experiment and first-principle method. Sensors and Actuators B: Chemical, 2012, 171-172, 1288-1291.	4.0	24
68	Electrochemical Performance Improvement of Vanadium Oxide Nanotubes as Cathode Materials for Lithium Ion Batteries through Ferric Ion Exchange Technique. Journal of Physical Chemistry C, 2012, 116, 21685-21692.	1.5	44
69	The synthesis, characterization and electrochemical properties of Multi-Wall Carbon Nanotube-induced vanadium oxide nanosheet composite as a novel cathode material for lithium ion batteries. Electrochimica Acta, 2012, 74, 32-38.	2.6	60
70	Ultrafast Coloring-Bleaching Performance of Nanoporous WO₃â€“SiO₂ Gasochromic Films Doped with Pd Catalyst. ACS Applied Materials & Interfaces, 2011, 3, 4573-4579.	4.0	66
71	Hierarchical microstructure and formative mechanism of low-density molybdena-based aerogel derived from MoCl5. Journal of Sol-Gel Science and Technology, 2011, 58, 225-231.	1.1	18
72	A molecular-clip-based approach to cofacial zincâ€“porphyrin complexes. Journal of Organometallic Chemistry, 2010, 695, 111-119.	0.8	21

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73	Engineering of the electronic structures of metal-porphyrin tapes and metal-hexaphyrin tapes: A first-principles study. Chemical Physics, 2010, 369, 66-70.	0.9	9
74	Influence of MoO 3 addition on the gasochromism of WO 3 thin films. Proceedings of SPIE, 2010, , .	0.8	2
75	Effect of silica doping on the stability of gasochromic films. Proceedings of SPIE, 2010, , .	0.8	1
76	New Efficient Ruthenium Sensitizers with Unsymmetrical Indeno[1,2-b]thiophene or a Fused Dithiophene Ligand for Dye-Sensitized Solar Cells. Inorganic Chemistry, 2010, 49, 8351-8357.	1.9	47
77	Effect of UV and vacuum treatment on stability of WO 3 gas sensing films. Proceedings of SPIE, 2010, , .	0.8	0
78	A theoretical study on fullereneâ€dizincocene hybrids. Journal of Computational Chemistry, 2009, 30, 978-982.	1.5	6
79	Preparation of Pd doped WO 3 films via sol-gel method and their gasochromic properties. Proceedings of SPIE, 2008, , .	0.8	2
80	First-principles study of silicon nitride nanotubes. Physical Review B, 2008, 78, .	1.1	9
81	First Principles Study of NO and NNO Chemisorption on Silicon Carbide Nanotubes and Other Nanotubes. Journal of Chemical Theory and Computation, 2008, 4, 1690-1697.	2.3	70
82	rGO/VNTs as Cathodes for High Performance Sodium Ion Batteries with Good Cycling Performance. Electronic Materials Letters, 0, , .	1.0	0