

Qiang-Qiang Meng

List of Publications by Year in descending order

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54
papers

3,073
citations

236833

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h-index

161767

54
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56
docs citations

56
times ranked

4215
citing authors

#	ARTICLE	IF	CITATIONS
1	Freeze-Tolerant Hydrogel Electrolyte with High Strength for Stable Operation of Flexible Zinc-Ion Hybrid Supercapacitors. <i>Small</i> , 2022, 18, e2200055.	5.2	67
2	DFT study of N,S co-doped graphene anodes for Na-ion storage and diffusion. <i>New Journal of Chemistry</i> , 2022, 46, 13866-13873.	1.4	3
3	Synergy of a hierarchical porous morphology and anionic defects of nanosized Li ₄ Ti ₅ O ₁₂ toward a high-rate and large-capacity lithium-ion battery. <i>Journal of Energy Chemistry</i> , 2021, 54, 699-711.	7.1	13
4	Toward Flexible Zinc-Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl ₂ Salt-Based Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 1003-1010.	1.6	130
5	The rule of N in N-doped graphene supported Pd catalyst. <i>Chemical Physics Letters</i> , 2021, 763, 138155.	1.2	3
6	Efficient photocatalytic H ₂ evolution, CO ₂ reduction and N ₂ fixation coupled with organic synthesis by cocatalyst and vacancies engineering. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119789.	10.8	120
7	Toward Flexible Zinc-Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl ₂ Salt-Based Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 990-997.	7.2	215
8	Make it stereoscopic: interfacial design for full-temperature adaptive flexible zinc-air batteries. <i>Energy and Environmental Science</i> , 2021, 14, 4926-4935.	15.6	108
9	The graphene-supported non-noble metal catalysts activate ammonia decomposition: A DFT study. <i>Chemical Physics</i> , 2021, 548, 111249.	0.9	10
10	Role of the anatase/TiO ₂ (B) heterointerface for ultrastable high-rate lithium and sodium energy storage performance. <i>Nanoscale Horizons</i> , 2020, 5, 150-162.	4.1	88
11	Photocatalytic Performance of NiS/CdS Composite with Multistage Structure. <i>ACS Applied Energy Materials</i> , 2020, 3, 7736-7745.	2.5	48
12	Toward efficient and high rate sodium-ion storage: A new insight from dopant-defect interplay in textured carbon anode materials. <i>Energy Storage Materials</i> , 2020, 28, 55-63.	9.5	85
13	One-Step Synthesis of a Nanosized Cubic Li ₂ TiO ₃ -Coated Br, C, and N Co-Doped Li ₄ Ti ₅ O ₁₂ Anode Material for Stable High-Rate Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25804-25816.	4.0	22
14	Well dispersed SnO ₂ nanoclusters preparation and modulation of metal-insulator transition induced by ionic liquid. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 248-252.	0.6	1
15	V ₂ and V _{1/2} Mn _{1/2} C ₂ nanosheets with robust mechanical and thermal properties as promising materials for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1606-1613.	1.3	8
16	A flexible rechargeable aqueous zinc manganese-dioxide battery working at ~20 °C. <i>Energy and Environmental Science</i> , 2019, 12, 706-715.	15.6	511
17	Nanotoxicity of Boron Nitride Nanosheet to Bacterial Membranes. <i>Langmuir</i> , 2019, 35, 6179-6187.	1.6	36
18	Lattice constant-dependent anchoring effect of MXenes for lithium-sulfur (Li-S) batteries: a DFT study. <i>Nanoscale</i> , 2019, 11, 8485-8493.	2.8	93

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19	Molecular Modeling: Modeling Interactions between Liposomes and Hydrophobic Nanosheets (Small) Tj ETQq1 1 0,784314 rgBT /Overle	5.2	16
20	Modeling Interactions between Liposomes and Hydrophobic Nanosheets. Small, 2019, 15, e1804992.	5.2	16
21	Charge driven lateral structural evolution of ions in electric double layer capacitors strongly correlates with differential capacitance. Physical Chemistry Chemical Physics, 2018, 20, 8054-8063.	1.3	20
22	Enhanced reversible lithium storage for nano-Si with a $<10\text{\AA}</math> nm homogenous porous carbon coating layer. Electrochimica Acta, 2018, 269, 1-10.$	2.6	16
23	The S-functionalized Ti_3C_2 MXene as a high capacity electrode material for Na-ion batteries: a DFT study. Nanoscale, 2018, 10, 3385-3392.	2.8	139
24	Tuning the indirect \rightarrow direct band gap transition in the MoS_2 / Se_x armchair nanotube by diameter modulation. Physical Chemistry Chemical Physics, 2018, 20, 3608-3613.	1.3	51
25	The roles of surface oxygen vacancy over $\text{Mg}_4\text{Ta}_2\text{O}_9$ -x photocatalyst in enhancing visible-light photocatalytic hydrogen evolution performance. Catalysis Communications, 2018, 103, 29-33.	1.6	8
26	First-principles study of native defects in bulk Sm_2CuO_4 and its (001) surface structure. Journal of Applied Physics, 2018, 123, .	1.1	2
27	Alkyl Tail Aggregations Break Long-Range Ordering of Ionic Liquids Confined in Subnanometer Pores. Journal of Physical Chemistry C, 2018, 122, 27314-27322.	1.5	6
28	Two-dimensional stable transition metal carbides (MnC and NbC) with prediction and novel functionalizations. Physical Chemistry Chemical Physics, 2018, 20, 25437-25445.	1.3	20
29	Revealing the role of oxygen vacancies on the phase transition of VO_2 film from the optical-constant measurements. RSC Advances, 2018, 8, 19151-19156.	1.7	23
30	Lipid extraction by boron nitride nanosheets from liquid-ordered and liquid-disordered nanodomains. Nanoscale, 2018, 10, 14073-14081.	2.8	6
31	Electronic and optical properties of $\text{In}_2\text{MoO}_3/\text{TiO}_2$ heterostructures: A DFT study. International Journal of Quantum Chemistry, 2018, 118, e25681.	1.0	6
32	Well-Dispersed Monoclinic VO_2 Nanoclusters with Uniform Size for Sensitive near-Infrared Detection. ACS Applied Nano Materials, 2018, 1, 5044-5052.	2.4	9
33	Theoretical investigation of zirconium carbide MXenes as prospective high capacity anode materials for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 13652-13660.	5.2	111
34	First-principles study on codoping effect to enhance photocatalytic activity of anatase TiO_2 . International Journal of Modern Physics B, 2017, 31, 1750036.	1.0	3
35	Embedded iron nanoparticles by graphitized carbon as highly active yet stable catalyst for ammonia decomposition. Molecular Catalysis, 2017, 442, 147-153.	1.0	15
36	Theoretical prediction of MXene-like structured Ti_3C_4 as a high capacity electrode material for Na ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 29106-29113.	1.3	51

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37	Co ₃ O ₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO ₂ . <i>Advanced Materials</i> , 2016, 28, 6485-6490.	11.1	395
38	Infrared Response and Optoelectronic Memory Device Fabrication Based on Epitaxial VO ₂ Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32971-32977.	4.0	72
39	Impact of Oxygen Vacancy on Band Structure Engineering of n-p Codoped Anatase TiO ₂ . <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 155-160.	0.6	6
40	Band structure engineering of anatase TiO ₂ by metal-assisted P-O coupling. <i>Journal of Chemical Physics</i> , 2014, 140, 174705.	1.2	29
41	Sub-20 nm-Fe ₃ O ₄ square and circular nanoplates: synthesis and facet-dependent magnetic and electrochemical properties. <i>Chemical Communications</i> , 2014, 50, 15952-15955.	2.2	36
42	Investigation of the facet-dependent performance of Fe ₂ O ₃ nanocrystals for heavy metal determination by stripping voltammetry. <i>Chemical Communications</i> , 2014, 50, 5011-5013.	2.2	28
43	Electronic and optical properties of TiO ₂ nanotubes and arrays: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11519.	1.3	17
44	Origin of High Photocatalytic Properties in the Mixed-Phase TiO ₂ : A First-Principles Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12885-12892.	4.0	81
45	Facet-dependent electrochemical properties of Co ₃ O ₄ nanocrystals toward heavy metal ions. <i>Scientific Reports</i> , 2013, 3, 2886.	1.6	105
46	Water oxidation on N-Doped TiO ₂ nanotube arrays. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2585-2590.	1.0	10
47	CO Adsorption and Oxidation on Metal-Doped TiO ₂ Nanotube Arrays. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2012, 28, 44-50.	2.2	1
48	Homochiral Xanthine Quintet Networks Self-Assembled on Au(111) Surfaces. <i>ACS Nano</i> , 2011, 5, 6651-6660.	7.3	18
49	CO Oxidation by Lattice Oxygen on V ₂ O ₅ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14806-14811.	1.5	19
50	Water splitting on TiO ₂ nanotube arrays. <i>Catalysis Today</i> , 2011, 165, 145-149.	2.2	47
51	Supramolecular Porous Network Formed by Molecular Recognition between Chemically Modified Nucleobases Guanine and Cytosine. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9373-9377.	7.2	45
52	Nanotubes from Rutile TiO ₂ (110) Sheets: Formation and Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9251-9256.	1.5	19
53	In situ hydrogen from aqueous-methanol for nitroarene reduction and imine formation over an Au-Pd/Al ₂ O ₃ catalyt. <i>Chemical Communications</i> , 2010, 46, 5918.	2.2	48
54	A DFT Study of the Adhesion of Pd Clusters on ZnO SWNTs and Adsorption of Gas Molecules on Pd/ZnO SWNTs. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21338-21341.	1.5	24