

Qingping Meng

List of Publications by Year in descending order

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34
papers

970
citations

567281

15
h-index

434195

31
g-index

37
all docs

37
docs citations

37
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	Inherent stochasticity during insulator-metal transition in VO ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
2	Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371.	21.0	62
3	Mapping valence electron distributions with multipole density formalism using 4D-STEM. Ultramicroscopy, 2020, 219, 113095.	1.9	11
4	The in situ Studies on the Anomalous Domain Switching Caused by Trace Amount of Oxygen Vacancies. Microscopy and Microanalysis, 2019, 25, 1888-1889.	0.4	0
5	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. Advanced Electronic Materials, 2019, 5, 1800827.	5.1	8
6	Atomic-level tunnel engineering of todorokite MnO ₂ for precise evaluation of lithium storage mechanisms by in situ transmission electron microscopy. Nano Energy, 2019, 63, 103840.	16.0	17
7	Quantification of Charge Transfer at the Interfaces of Oxide Thin Films. Journal of Physical Chemistry A, 2019, 123, 4632-4637.	2.5	5
8	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. Nature Communications, 2019, 10, 93.	12.8	39
9	Theory of electron-phonon-dislocation interacting system toward a quantized theory of dislocations. New Journal of Physics, 2018, 20, 023010.	2.9	13
10	Non-uniform Stress-free Strains in a Spherically Symmetrical Nano-sized Particle and Its Applications to Lithium-ion Batteries. Scientific Reports, 2018, 8, 4936.	3.3	6
11	In-situ Probe of Lithium-ion Transport and Phase Evolution Within and Between Silver Hollandite Nanorods. Microscopy and Microanalysis, 2018, 24, 1516-1517.	0.4	0
12	Atomic Scale Account of the Surface Effect on Ionic Transport in Silver Hollandite. Chemistry of Materials, 2018, 30, 6124-6133.	6.7	14
13	Retrieving the energy-loss function from valence electron energy-loss spectrum: Separation of bulk-, surface-losses and Cherenkov radiation. Ultramicroscopy, 2018, 194, 175-181.	1.9	8
14	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and <i>in Situ</i> Transmission Electron Microscopy. ACS Nano, 2018, 12, 7866-7874.	14.6	49
15	Probing the pathway of an ultrafast structural phase transition to illuminate the transition mechanism in Cu ₂ S. Applied Physics Letters, 2018, 113, 041904.	3.3	8
16	Revealing and Rationalizing the Rich Polytypism of Todorokite MnO ₂ . Journal of the American Chemical Society, 2018, 140, 6961-6968.	13.7	36
17	Nonperturbative Quantum Nature of the Dislocation-Phonon Interaction. Nano Letters, 2017, 17, 1587-1594.	9.1	56
18	Strain Coupling of Conversion-type Fe ₃ O ₄ Thin Films for Lithium Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 7813-7816.	13.8	59

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19	Strain Coupling of Conversion-type Fe ₃ O ₄ Thin Films for Lithium Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 7921-7924.	2.0	2
20	Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. <i>Nature Communications</i> , 2017, 8, 15400.	12.8	52
21	Electron transfer dynamics from single near infrared emitting lead sulfide-cadmium sulfide nanocrystals to titanium dioxide. <i>Nanoscale</i> , 2017, 9, 14664-14671.	5.6	8
22	Direct Visualization of Lithium Intercalation in Spinel Iron Oxide by In-Situ Bright-Field Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 760-761.	0.4	1
23	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. <i>Nature Communications</i> , 2016, 7, 13335.	12.8	65
24	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. <i>Nature Communications</i> , 2016, 7, 11441.	12.8	162
25	Kinetic Phase Evolution of Spinel Cobalt Oxide during Lithiation. <i>ACS Nano</i> , 2016, 10, 9577-9585.	14.6	54
26	Lattice vibrations in the Frenkel-Kontorova Model. II. Thermal conductivity. <i>Physical Review B</i> , 2015, 91, .	3.2	3
27	Velocity of domain-wall motion during polarization reversal in ferroelectric thin films: Beyond Merz's Law. <i>Physical Review B</i> , 2015, 91, .	3.2	28
28	Topological effect of surface plasmon excitation in gapped isotropic topological insulator nanowires. <i>Canadian Journal of Physics</i> , 2015, 93, 591-598.	1.1	4
29	Near-field optical effect of a core-shell nanostructure in proximity to a flat surface. <i>Journal of Chemical Physics</i> , 2014, 140, 044109.	3.0	8
30	Phonon scattering of interfacial strain field between dissimilar lattices. <i>Physical Review B</i> , 2013, 87, .	3.2	14
31	Origin of Phonon Glass-Electron Crystal Behavior in Thermoelectric Layered Cobaltate. <i>Advanced Functional Materials</i> , 2013, 23, 5728-5736.	14.9	47
32	Shell Thickness Dependent Photoinduced Hole Transfer in Hybrid Conjugated Polymer/Quantum Dot Nanocomposites: From Ensemble to Single Hybrid Level. <i>ACS Nano</i> , 2012, 6, 4984-4992.	14.6	64
33	Origin of 90° domain wall pinning in Pb(Zr _{0.2} Ti _{0.8})O ₃ heteroepitaxial thin films. <i>Applied Physics Letters</i> , 2011, 99, 102902.	3.3	49
34	Structural modification of twin boundaries in YBa ₂ Cu ₃ O _{6+δ} oxides: Effects of oxygen concentration and temperature. <i>Physical Review B</i> , 2007, 75, .	3.2	3