

Feng Xu

List of Publications by Year in descending order

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53
papers

2,553
citations

331538

21
h-index

189801

50
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54
all docs

54
docs citations

54
times ranked

5062
citing authors

#	ARTICLE	IF	CITATIONS
1	Spongy Graphene as a Highly Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Advanced Functional Materials</i> , 2012, 22, 4421-4425.	7.8	925
2	Solution-derived ZnO nanostructures for photoanodes of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 818-841.	15.6	243
3	Enhanced photocatalytic activity of hierarchical ZnO nanoplate-nanowire architecture as environmentally safe and facilely recyclable photocatalyst. <i>Nanoscale</i> , 2011, 3, 5020.	2.8	148
4	Ultrathin Bismuth Nanosheets for Stable Na-Ion Batteries: Clarification of Structure and Phase Transition by in Situ Observation. <i>Nano Letters</i> , 2019, 19, 1118-1123.	4.5	124
5	Ultrafast Preparation of Black Phosphorus Quantum Dots for Efficient Humidity Sensing. <i>Chemistry - A European Journal</i> , 2016, 22, 7357-7362.	1.7	114
6	<i>in situ</i> observation of nickel as an oxidizable electrode material for the solid-electrolyte-based resistive random access memory. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	65
7	In situ TEM probing of crystallization form-dependent sodiation behavior in ZnO nanowires for sodium-ion batteries. <i>Nano Energy</i> , 2016, 30, 771-779.	8.2	57
8	Hollow SnO ₂ microspheres for high-efficiency bilayered dye sensitized solar cell. <i>RSC Advances</i> , 2012, 2, 7384.	1.7	52
9	Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. <i>Nature Communications</i> , 2017, 8, 15400.	5.8	52
10	All electrochemical fabrication of MoS ₂ /graphene counter electrodes for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 34546-34552.	1.7	50
11	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and <i>in Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2018, 12, 7866-7874.	7.3	49
12	New Insights into Electrochemical Lithiation/Delithiation Mechanism of $\text{Li}_x\text{-MoO}_3$ Nanobelt by in Situ Transmission Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9170-9177.	4.0	48
13	Confining TiO ₂ Nanotubes in PECVD-Enabled Graphene Capsules Toward Ultrafast K-Ion Storage: In Situ TEM/XRD Study and DFT Analysis. <i>Nano-Micro Letters</i> , 2020, 12, 123.	14.4	48
14	Atomic structure and migration dynamics of MoS ₂ /Li _x MoS ₂ interface. <i>Nano Energy</i> , 2018, 48, 560-568.	8.2	42
15	Identifying the Conversion Mechanism of NiCo ₂ O ₄ during Sodiation/Desodiation Cycling by In Situ TEM. <i>Advanced Functional Materials</i> , 2017, 27, 1606163.	7.8	39
16	Defect-Laden MoSe ₂ Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. <i>Small</i> , 2017, 13, 1700565.	5.2	31
17	In situ interface engineering for probing the limit of quantum dot photovoltaic devices. <i>Nature Nanotechnology</i> , 2019, 14, 950-956.	15.6	30
18	Electrically driven cation exchange for in situ fabrication of individual nanostructures. <i>Nature Communications</i> , 2017, 8, 14889.	5.8	29

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19	Nitrogen-based gas molecule adsorption of monolayer phosphorene under metal functionalization. <i>Scientific Reports</i> , 2019, 9, 12498.	1.6	25
20	In situ TEM visualization of superior nanomechanical flexibility of shear-exfoliated phosphorene. <i>Nanoscale</i> , 2016, 8, 13603-13610.	2.8	23
21	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , 2020, 156, 24-30.	5.4	23
22	Deeply Exploring Anisotropic Evolution toward Large-Scale Growth of Monolayer ReS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2862-2870.	4.0	21
23	Sulfide-Fixed Intrinsic Porous NiCoP for Boosting High Capacitance and Long-Term Stability. , 2021, 3, 1016-1024.		21
24	Unveiling the microscopic origin of asymmetric phase transformations in (de)sodiated Sb ₂ Se ₃ with in situ transmission electron microscopy. <i>Nano Energy</i> , 2020, 77, 105299.	8.2	20
25	In Situ Visualization of Structural Evolution and Fissure Breathing in (De)lithiated H ₂ V ₃ O ₈ Nanorods. <i>ACS Energy Letters</i> , 2019, 4, 2081-2090.	8.8	19
26	Observing the Growth of Pb ₃ O ₄ Nanocrystals by in Situ Liquid Cell Transmission Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24478-24484.	4.0	18
27	Facet-induced coordination competition for highly ordered CsPbBr ₃ nanoplatelets with strong polarized emission. <i>Nano Research</i> , 2022, 15, 502-509.	5.8	18
28	Ultrafast electrochemical preparation of graphene/CoS nanosheet counter electrodes for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 85822-85830.	1.7	16
29	A Stable CaV ₄ O ₉ Anode Promises Near-Zero Volume Change and High-Capacity Lithium Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2003612.	10.2	16
30	In Situ Visualization of Interfacial Sodium Transport and Electrochemistry between Few-Layer Phosphorene. <i>Small Methods</i> , 2019, 3, 1900061.	4.6	15
31	Cu-doped CoS ₂ polyhedrons with high catalytic activity and long-term stability. <i>Science China Materials</i> , 2020, 63, 1337-1344.	3.5	15
32	Armor-like passivated CsPbBr ₃ quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8772-8781.	5.2	13
33	Understanding the Ensemble of Growth Behaviors of Sub-10-nm Silver Nanorods Using in Situ Liquid Cell Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21257-21264.	1.5	12
34	Spring-Like Pseudoelasticity of Monocrystalline Cu ₂ S Nanowire. <i>Nano Letters</i> , 2018, 18, 5070-5077.	4.5	11
35	Lattice-resolution visualization of anisotropic sodiation degrees and revelation of sodium storage mechanisms in todorokite-type MnO ₂ with in-situ TEM. <i>Energy Storage Materials</i> , 2021, 37, 345-353.	9.5	11
36	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021, 33, 2506-2515.	3.2	10

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37	In-situ TEM revisiting NH ₄ V ₄ O ₁₀ to unveil the unknown sodium storage mechanism as an anode material. <i>Nano Energy</i> , 2021, 87, 106182.	8.2	10
38	Stable field emission lamps based on well-aligned BaO nanowires. <i>RSC Advances</i> , 2014, 4, 22246.	1.7	9
39	In Situ Liquid Cell Transmission Electron Microscopy Investigation on the Dissolution-Regrowth Mechanism Dominating the Shape Evolution of Silver Nanoplates. <i>Crystal Growth and Design</i> , 2021, 21, 1314-1322.	1.4	9
40	In situ investigation of the mechanical properties of nanomaterials by transmission electron microscopy. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1513-1527.	1.5	8
41	Synthesis and luminescence properties of ternary complexes of Sm x Tb ^{1-x} (TTA) ₃ Phen nanoparticles and their surface modification. <i>Journal of Materials Science</i> , 2013, 48, 5309-5315.	1.7	8
42	Simultaneous atomic-level visualization and high precision photocurrent measurements on photoelectric devices by <i>in situ</i> TEM. <i>RSC Advances</i> , 2018, 8, 948-953.	1.7	7
43	Unravelling the shell growth pathways of Au@Ag core-shell nanoparticles by <i>in situ</i> liquid cell transmission electron microscopy. <i>Nanoscale</i> , 2021, 13, 3136-3143.	2.8	7
44	Design and 3D modeling investigation of a microfluidic electrode array for electrical impedance measurement of single yeast cells. <i>Electrophoresis</i> , 2021, 42, 1996-2009.	1.3	7
45	Investigation of daughter cell dissection coincidence of single budding yeast cells immobilized in microfluidic traps. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2181-2193.	1.9	5
46	A high-throughput microfluidic diploid yeast long-term culturing (DYLC) chip capable of bud reorientation and concerted daughter dissection for replicative lifespan determination. <i>Journal of Nanobiotechnology</i> , 2022, 20, 171.	4.2	5
47	Hybrid single/poly-crystalline ZnO nanoawl arrays: facile synthesis and enhanced field emission properties. <i>RSC Advances</i> , 2012, 2, 11601.	1.7	4
48	Atomic Modulation Engineering of Hexagon-Shaped CeO ₂ Nanocrystals by <i>In Situ</i> Sculpturing of an Electron Beam. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17006-17014.	1.5	3
49	Large Gap Two-Dimensional Topological Insulators with the Significant Rashba Effect in Ethynyl and Methyl Functionalized PbSn Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12202-12209.	2.1	3
50	Low Temperature Casting of Graphene with High Compressive Strength (<i>Adv. Mater.</i> 37/2012). <i>Advanced Materials</i> , 2012, 24, 5123-5123.	11.1	2
51	Low temperature casting of graphene into various 3-D shapes. , 2013, , .		0
52	Graphene as dry adhesive interacting with semiconductor substrates. , 2013, , .		0
53	In-situ Probe of Lithium-ion Transport and Phase Evolution Within and Between Silver Hollandite Nanorods. <i>Microscopy and Microanalysis</i> , 2018, 24, 1516-1517.	0.2	0