Qin-Fen Gu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2016712/publications.pdf

Version: 2024-02-01

235 papers	13,636 citations	17440 63 h-index	27406 106 g-index
241 all docs	241 docs citations	241 times ranked	12759 citing authors

#	Article	IF	Citations
1	Thermodynamic assessment of Mgâ^'Niâ^'Y system focusing on long-period stacking ordered phases in the Mg-rich corner. Journal of Magnesium and Alloys, 2022, 10, 3250-3266.	11.9	12
2	Ultra-narrow-band blue-emitting K2SrBa(PO4)2:Eu2+ phosphor with superior efficiency and thermal stability. Journal of Alloys and Compounds, 2022, 892, 162066.	5.5	18
3	Boosting capacity and operating voltage of LiVO3 as cathode for lithium-ion batteries by activating oxygen reaction in the lattice. Journal of Power Sources, 2022, 517, 230728.	7.8	7
4	Investigation on the Solidification and Phase Transformation in Pb-Free Solders Using In Situ Synchrotron Radiography and Diffraction: A Review. Acta Metallurgica Sinica (English Letters), 2022, 35, 49-66.	2.9	2
5	Structure tailoring and defect engineering of LED phosphors with enhanced thermal stability and superior quantum efficiency. Chemical Engineering Journal, 2022, 435, 133873.	12.7	15
6	Electrochemical Hydrogenation of Furfural in Aqueous Acetic Acid Media with Enhanced 2â€Methylfuran Selectivity Using CuPd Bimetallic Catalysts. Angewandte Chemie, 2022, 134, .	2.0	9
7	Electrochemical Hydrogenation of Furfural in Aqueous Acetic Acid Media with Enhanced 2â€Methylfuran Selectivity Using CuPd Bimetallic Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	33
8	Continuous Carbon Channels Enable Full Naâ€ion Accessibility for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2022, 34, e2108363.	21.0	49
9	Ice-Assisted Synthesis of Highly Crystallized Prussian Blue Analogues for All-Climate and Long-Calendar-Life Sodium Ion Batteries. Nano Letters, 2022, 22, 1302-1310.	9.1	68
10	Effect of Eliminating Water in Prussian Blue Cathode for Sodiumâ€ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	66
11	Epitaxial growth of an atom-thin layer on a LiNi0.5Mn1.5O4 cathode for stable Li-ion battery cycling. Nature Communications, 2022, 13, 1565.	12.8	32
12	Electrical Regulation of CO₂ Adsorption in the Metalâ€“Organic Framework MIL-53. ACS Applied Materials & Interfaces, 2022, 14, 13904-13913.	8.0	6
13	Hydrogen sorption behaviour of Mg-5wt.%La alloys after the initial hydrogen absorption process. International Journal of Hydrogen Energy, 2022, 47, 16132-16143.	7.1	7
14	Controlled Hydrolysis of TiO₂ from HCl Digestion Liquors of Ilmenite. Industrial & Engineering Chemistry Research, 2022, 61, 6333-6342.	3.7	3
15	Na-modified cast hypo-eutectic Mgâ€“Mg2Si alloys for solid-state hydrogen storage. Journal of Power Sources, 2022, 538, 231538.	7.8	10
16	Sustainable S cathodes with synergic electrocatalysis for room-temperature Naâ€“S batteries. Journal of Materials Chemistry A, 2021, 9, 566-574.	10.3	39
17	Conjugated crosslinks boost the conductivity and stability of a single crystalline metalâ€“organic framework. Chemical Communications, 2021, 57, 187-190.	4.1	10
18	Research Progress and Future Perspectives on Rechargeable Naâ€O₂ and Naâ€CO₂ Batteries. Energy and Environmental Materials, 2021, 4, 158-177.	12.8	25

#	Article	IF	Citations
19	In-situ SAXS investigation of high-pressure triglyceride polymorphism in milk cream and anhydrous milk fat. LWT - Food Science and Technology, 2021, 135, 110174.	5.2	5
20	Tuning NaO2 formation and decomposition routes with nitrogen-doped nanofibers for low overpotential Na-O2 batteries. Nano Energy, 2021, 81, 105529.	16.0	19
21	Three-Dimensional MOFs@MXene Aerogel Composite Derived MXene Threaded Hollow Carbon Confined CoS Nanoparticles toward Advanced Alkali-Ion Batteries. ACS Nano, 2021, 15, 3228-3240.	14.6	189
22	Self-Assembled Hydrophobic/Hydrophilic Porphyrin-Ti₃C₂T_x MXene Janus Membrane for Dual-Functional Enabled Photothermal Desalination. ACS Applied Materials & Interfaces, 2021, 13, 3762-3770.	8.0	82
23	Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. Green Chemistry, 2021, 23, 3028-3038.	9.0	43
24	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO3 ceramics. Nature Communications, 2021, 12, 881.	12.8	82
25	Simultaneous quantitative recognition of all purines including N6-methyladenine via the host-guest interactions on a Mn-MOF. Matter, 2021, 4, 1001-1016.	10.0	17
26	Atomically Dispersed Iron Metal Site in a Porphyrin-Based Metalâ€“Organic Framework for Photocatalytic Nitrogen Fixation. ACS Nano, 2021, 15, 9670-9678.	14.6	127
27	Adsorption and visible-light photocatalytic degradation of organic pollutants by functionalized biochar: Role of iodine doping and reactive species. Environmental Research, 2021, 197, 111026.	7.5	31
28	Architecting Freestanding Sulfur Cathodes for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Functional Materials, 2021, 31, 2102280.	14.9	46
29	Interfacial reactions between Ga and Cu-xNi (x=0, 2, 6, 10, 14) substrates and the strength of Cu-xNi/Ga/Cu-xNi joints. Intermetallics, 2021, 133, 107168.	3.9	6
30	A P3-Type K_{1/2}Mn_{5/6}Mg_{1/12}Ni_{1/12}O₂ Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mgâ€“Ni Pinning Effect. ACS Applied Materials & Interfaces, 2021, 13, 28369-28377.	8.0	29
31	Rapid fabrication of tin-copper anodes for lithium-ion battery applications. Journal of Alloys and Compounds, 2021, 867, 159031.	5.5	9
32	Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. Cell Reports Physical Science, 2021, 2, 100531.	5.6	31
33	The effect of Na addition on the first hydrogen absorption kinetics of cast hypoeutectic Mgâ€“La alloys. International Journal of Hydrogen Energy, 2021, 46, 27096-27106.	7.1	10
34	Electrocatalytic-driven compensation for sodium ion pouch cell with high energy density and long lifespan. Energy Storage Materials, 2021, 39, 54-59.	18.0	11
35	Nitrogen Rejection from Methane via a â€œTrapdoorâ€•K-ZSM-25 Zeolite. Journal of the American Chemical Society, 2021, 143, 15195-15204.	13.7	19
36	Graphene confined intermetallic magnesium silicide nanocrystals with highly exposed (2 2 0) facets for anisotropic lithium storage. Chemical Engineering Journal, 2021, 419, 129660.	12.7	4

#	Article	IF	Citations
37	Copper phosphide as a promising anode material for potassium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 8378-8385.	10.3	16
38	Catalytic Oxidation of K₂S via Atomic Co and Pyridinic N Synergy in Potassiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2021, 143, 16902-16907.	13.7	53
39	A Mo5N6 electrocatalyst for efficient Na2S electrodeposition in room-temperature sodium-sulfur batteries. Nature Communications, 2021, 12, 7195.	12.8	80
40	Photocatalytic Bacterial Inactivation by a Rape Pollen-MoS₂ Biohybrid Catalyst: Synergetic Effects and Inactivation Mechanisms. Environmental Science & Technology, 2020, 54, 537-549.	10.0	69
41	Experimental study and thermodynamic evaluation of Mgâ€“Laâ€“Zn system. Journal of Alloys and Compounds, 2020, 814, 152297.	5.5	31
42	Properties of CuGa2 Formed Between Liquid Ga and Cu Substrates at Room Temperature. Journal of Electronic Materials, 2020, 49, 128-139.	2.2	29
43	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 2470-2477.	2.0	26
44	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 2449-2456.	13.8	101
45	Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie - International Edition, 2020, 59, 5159-5164.	13.8	142
46	Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie, 2020, 132, 5197-5202.	2.0	19
47	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. Advanced Energy Materials, 2020, 10, 1903006.	19.5	67
48	MXene derived TiS2 nanosheets for high-rate and long-life sodium-ion capacitors. Energy Storage Materials, 2020, 26, 550-559.	18.0	108
49	Electrochemically enhanced Cu6Sn5 anodes with tailored crystal orientation and ordered atomic arrangements for lithium-ion battery applications. Acta Materialia, 2020, 201, 341-349.	7.9	5
50	Transitionâ€Metalâ€Containing Porphyrin Metalâ€“Organic Frameworks as Ïâ€Backbonding Adsorbents for NO 2 Removal. Angewandte Chemie, 2020, 132, 19848-19851.	2.0	2
51	Transitionâ€Metalâ€Containing Porphyrin Metalâ€“Organic Frameworks as Ïâ€Backbonding Adsorbents for NO₂ Removal. Angewandte Chemie - International Edition, 2020, 59, 19680-19683.	13.8	49
52	General Synthesis of Singleâ€Atom Catalysts for Hydrogen Evolution Reactions and Roomâ€Temperature Naâ€S Batteries. Angewandte Chemie - International Edition, 2020, 59, 22171-22178.	13.8	80
53	Origin of large electric-field-induced strain in pseudo-cubic BiFeO3â€“BaTiO3 ceramics. Acta Materialia, 2020, 197, 1-9.	7.9	93
54	A Flow-Through Reaction Cell for Studying Minerals Leaching by In-Situ Synchrotron Powder X-ray Diffraction. Minerals (Basel, Switzerland), 2020, 10, 990.	2.0	3

#	Article	IF	Citations
55	Ultrathin VSe₂ Nanosheets with Fast Ion Diffusion and Robust Structural Stability for Rechargeable Zincâ€Ion Battery Cathode. Small, 2020, 16, e2000698.	10.0	154
56	Confining Ultrathin 2D Superlattices in Mesoporous Hollow Spheres Renders Ultrafast and Highâ€Capacity Naâ€Ion Storage. Advanced Energy Materials, 2020, 10, 2001033.	19.5	25
57	Molten Salt-Directed Catalytic Synthesis of 2D Layered Transition-Metal Nitrides for Efficient Hydrogen Evolution. CheM, 2020, 6, 2382-2394.	11.7	163
58	General Synthesis of Singleâ€Atom Catalysts for Hydrogen Evolution Reactions and Roomâ€Temperature Naâ€S Batteries. Angewandte Chemie, 2020, 132, 22355-22362.	2.0	62
59	Atomic Engineering Catalyzed MnO₂ Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. Advanced Materials, 2020, 32, e2001894.	21.0	221
60	Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. Chemical Science, 2020, 11, 6670-6681.	7.4	130
61	Nanostructured CoS₂-Decorated Hollow Carbon Spheres: A Performance Booster for Li-Ion/Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 6447-6459.	5.1	17
62	Novel structurally-stable Na-rich Na₄V₂O₇ cathode material with high reversible capacity by utilization of anion redox activity. Chemical Communications, 2020, 56, 8245-8248.	4.1	8
63	Ultrathin water-stable metal-organic framework membranes for ion separation. Science Advances, 2020, 6, eaay3998.	10.3	179
64	Synthesis, structure and dielectric properties of the Sr₃Ti_{1â^'x}Zr_xNb₄O₁₅, (0 â‰ x â‰ 1), series of tungsten bronze type compounds. CrystEngComm, 2020, 22, 4994-5001.	2.6	3
65	In-situ observation of grain refinement dynamics of hypoeutectic Al-Si alloy inoculated by Al-Ti-Nb-B alloy. Scripta Materialia, 2020, 187, 142-147.	5.2	82
66	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 12174-12181.	2.0	20
67	Facile synthesis of CuBTC and its graphene oxide composites as efficient adsorbents for CO2 capture. Chemical Engineering Journal, 2020, 393, 124666.	12.7	85
68	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	12.8	283
69	Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithiumâ€Rich Cathode Materials. Advanced Functional Materials, 2020, 30, 1909192.	14.9	117
70	Electronâ€State Confinement of Polysulfides for Highly Stable Sodiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e1907557.	21.0	150
71	A Highâ€Kinetics Sulfur Cathode with a Highly Efficient Mechanism for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2020, 32, e1906700.	21.0	126
72	Insight into Si poisoning on grain refinement of Al-Si/Al-5Ti-B system. Acta Materialia, 2020, 187, 51-65.	7.9	195

#	Article	IF	Citations
73	Crystal structure of propionitrile (CH₃CH₂CN) determined using synchrotron powder X-ray diffraction. Journal of Synchrotron Radiation, 2020, 27, 212-216.	2.4	3
74	Intermetallic formation mechanisms and properties in room-temperature Ga soldering. Journal of Alloys and Compounds, 2020, 826, 154221.	5.5	17
75	Manipulating Molecular Structure and Morphology to Invoke Highâ€Performance Sodium Storage of Copper Phosphide. Advanced Energy Materials, 2020, 10, 1903542.	19.5	38
76	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12076-12083.	13.8	78
77	Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. ACS Nano, 2020, 14, 4609-4617.	14.6	31
78	Efficient Gating of Ion Transport in Threeâ€Dimensional Metalâ€“Organic Framework Subâ€Nanochannels with Confined Lightâ€Responsive Azobenzene Molecules. Angewandte Chemie - International Edition, 2020, 59, 13051-13056.	13.8	70
79	Enhanced Potassium Ion Battery by Inducing Interlayer Anionic Ligands in MoS_{1.5}Se_{0.5} Nanosheets with Exploration of the Mechanism. Advanced Energy Materials, 2020, 10, 1904162.	19.5	48
80	Interfacial Reactions between Ga and Cu-10Ni Substrate at Low Temperature. ACS Applied Materials & Interfaces, 2020, 12, 21045-21056.	8.0	19
81	A Layered Zn_{0.4}VOPO₄·0.8H₂O Cathode for Robust and Stable Zn Ion Storage. ACS Applied Energy Materials, 2020, 3, 3919-3927.	5.1	60
82	Synthesis of Ni5Ga3 catalyst by Hydrotalcite-like compound (HTlc) precursors for CO2 hydrogenation to methanol. Applied Catalysis B: Environmental, 2020, 275, 119067.	20.2	21
83	Understanding rhombohedral iron hexacyanoferrate with three different sodium positions for high power and long stability sodium-ion battery. Energy Storage Materials, 2020, 30, 42-51.	18.0	62
84	Electrocatalyzing S Cathodes via Multisulfiphilic Sites for Superior Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 7259-7268.	14.6	100
85	The Effects of Trace Sb and Zn Additions on Cu6Sn5 Lithium-Ion Battery Anodes. Journal of Nanoscience and Nanotechnology, 2020, 20, 5182-5191.	0.9	3
86	Surface Stabilization of O3-type Layered Oxide Cathode to Protect the Anode of Sodium Ion Batteries for Superior Lifespan. IScience, 2019, 19, 244-254.	4.1	29
87	Effects of Ni and Cu Antisite Substitution on the Phase Stability of CuGa2 from Liquid Ga/Cuâ€“Ni Interfacial Reaction. ACS Applied Materials & Interfaces, 2019, 11, 32523-32532.	8.0	10
88	Hydrangea-Shaped 3D Hierarchical Porous Magnesium Hydrideâ€“Carbon Framework with High Rate Performance for Lithium Storage. ACS Applied Materials & Interfaces, 2019, 11, 28987-28995.	8.0	10
89	Monovalent Cationâ€“Phenolic Crystals with pHâ€Driven Reversible Crystal Transformation. Chemistry - A European Journal, 2019, 25, 12281-12287.	3.3	11
90	Sandwichâ€Like Ultrathin TiS₂ Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1901872.	19.5	186

#	Article	IF	Citations
91	Effective Gas Separation Performance Enhancement Obtained by Constructing Polymorphous Coreâ€“Shell Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2019, 11, 30234-30239.	8.0	19
92	2D Titaniaâ€“Carbon Superlattices Vertically Encapsulated in 3D Hollow Carbon Nanospheres Embedded with 0D TiO₂ Quantum Dots for Exceptional Sodiumâ€Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 14125-14128.	13.8	47
93	The effects of Ni on inhibiting the separation of Cu during the lithiation of Cu6Sn5 lithium-ion battery anodes. Journal of Power Sources, 2019, 440, 227085.	7.8	12
94	2D Titaniaâ€“Carbon Superlattices Vertically Encapsulated in 3D Hollow Carbon Nanospheres Embedded with 0D TiO 2 Quantum Dots for Exceptional Sodiumâ€Ion Storage. Angewandte Chemie, 2019, 131, 14263-14266.	2.0	13
95	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793.	12.8	147
96	A Novel Approach to Highâ€Performance Aliovalentâ€Substituted Catalystsâ€”2D Bimetallic MOFâ€Derived CeCuO_x Microsheets. Small, 2019, 15, e1903525.	10.0	46
97	Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. Matter, 2019, 1, 1681-1693.	10.0	81
98	Maximizing sinusoidal channels of HZSM-5 for high shape-selectivity to p-xylene. Nature Communications, 2019, 10, 4348.	12.8	102
99	Silica Supported MgO as An Adsorbent for Precombustion CO₂ Capture. ACS Applied Nano Materials, 2019, 2, 6565-6574.	5.0	17
100	Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB₃H₈ (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB₃H₈. Angewandte Chemie - International Edition, 2019, 58, 2720-2724.	13.8	39
101	Li(NH₃)B₃H₈: a new ionic liquid octahydrotriborate. Chemical Communications, 2019, 55, 408-411.	4.1	15
102	Characterisation of lithium-ion battery anodes fabricated via in-situ Cu6Sn5 growth on a copper current collector. Journal of Power Sources, 2019, 415, 50-61.	7.8	34
103	Phosphorusâ€Modulationâ€Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodiumâ€Storage Performance. Angewandte Chemie, 2019, 131, 4062-4066.	2.0	11
104	Phosphorusâ€Modulationâ€Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodiumâ€Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 4022-4026.	13.8	56
105	Exploration of the sodium ion ordered transfer mechanism in a MoSe₂@Graphene composite for superior rate and lifespan performance. Journal of Materials Chemistry A, 2019, 7, 13736-13742.	10.3	23
106	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO2 capture. Journal of Hazardous Materials, 2019, 374, 365-371.	12.4	55
107	Novel M (Mg/Ni/Cu)-Al-CO3 layered double hydroxides synthesized by aqueous miscible organic solvent treatment (AMOST) method for CO2 capture. Journal of Hazardous Materials, 2019, 373, 285-293.	12.4	38
108	P2-type Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ as a cathode material with high-rate and long-life for sodium ion storage. Journal of Materials Chemistry A, 2019, 7, 9215-9221.	10.3	102

#	Article	IF	Citations
109	Squeezing electrons out of 6s2 lone-pairs in perovskite-type oxides. Chemical Communications, 2019, 55, 3887-3890.	4.1	1
110	Controlling Oxygen Defect Formation and Its Effect on Reversible Symmetry Lowering and Disorder-to-Order Phase Transformations in Nonstoichiometric Ternary Uranium Oxides. Inorganic Chemistry, 2019, 58, 6143-6154.	4.0	14
111	Transition metal cation-exchanged SSZ-13 zeolites for CO2 capture and separation from N2. Chemical Engineering Journal, 2019, 370, 1450-1458.	12.7	70
112	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480.	12.8	260
113	Novel Subâ€5 nm Layered Niobium Phosphate Nanosheets for Highâ€Voltage, Cationâ€Intercalation Typed Electrochemical Energy Storage in Wearable Pseudocapacitors. Advanced Energy Materials, 2019, 9, 1900111.	19.5	57
114	Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. Nano Energy, 2019, 60, 591-599.	16.0	136
115	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. Journal of Materials Chemistry C, 2019, 7, 13573-13584.	5.5	7
116	A Hydrostable Cathode Material Based on the Layered P2@P3 Composite that Shows Redox Behavior for Copper in Highâ€Rate and Longâ€Cycling Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 1412-1416.	13.8	92
117	A Hydrostable Cathode Material Based on the Layered P2@P3 Composite that Shows Redox Behavior for Copper in Highâ€Rate and Longâ€Cycling Sodiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 1426-1430.	2.0	21
118	Achievement in grain-refining hypoeutectic Al-Si alloys with Nb. Scripta Materialia, 2019, 160, 75-80.	5.2	68
119	Facility upgrades at the Australian Synchrotron: extending the powder diffraction capabilities. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e729-e729.	0.1	0
120	Effect of extrusion temperature on microstructure, thermal conductivity and mechanical properties of a Mg-Ce-Zn-Zr alloy. Journal of Alloys and Compounds, 2018, 741, 1222-1228.	5.5	22
121	In Situ Growth of Layered Bimetallic ZnCo Hydroxide Nanosheets for High-Performance All-Solid-State Pseudocapacitor. ACS Nano, 2018, 12, 2968-2979.	14.6	193
122	Rapid Amorphization in Metastable CoSeO₃Â·H₂O Nanosheets for Ultrafast Lithiation Kinetics. ACS Nano, 2018, 12, 5011-5020.	14.6	53
123	A synchrotron X-ray powder diffraction and step potential electrochemical spectroscopy study on the change in manganese dioxide capacitive behaviour during cycling. Electrochimica Acta, 2018, 260, 630-639.	5.2	3
124	Precipitation mechanism of Mg2Ni in Mg-Ni-Y studied by STEM, 3DAP and first-principles calculations. Journal of Alloys and Compounds, 2018, 750, 117-123.	5.5	28
125	In situ study of skim milk structure changes under high hydrostatic pressure using synchrotron SAXS. Food Hydrocolloids, 2018, 77, 772-776.	10.7	23
126	Controlled-Size Hollow Magnesium Sulfide Nanocrystals Anchored on Graphene for Advanced Lithium Storage. ACS Nano, 2018, 12, 12741-12750.	14.6	33

#	Article	IF	Citations
127	Atomic cobalt as an efficient electrocatalyst in sulfur cathodes for superior room-temperature sodium-sulfur batteries. Nature Communications, 2018, 9, 4082.	12.8	305
128	Theoretical Study of Moisture-Pretreated Lithium as Potential Material for Natural Gas Upgrading. Industrial & Engineering Chemistry Research, 2018, , .	3.7	3
129	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. Angewandte Chemie - International Edition, 2018, 57, 17130-17134.	13.8	113
130	A 12R long-period stacking-ordered structure in a Mg-Ni-Y alloy. Journal of Materials Science and Technology, 2018, 34, 2235-2239.	10.7	83
131	Li⁺/ZSM-25 Zeolite as a CO₂ Capture Adsorbent with High Selectivity and Improved Adsorption Kinetics, Showing CO₂-Induced Framework Expansion. Journal of Physical Chemistry C, 2018, 122, 18933-18941.	3.1	31
132	A Novel Graphene Oxide Wrapped Na₂Fe₂(SO₄)₃/C Cathode Composite for Long Life and High Energy Density Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1800944.	19.5	101
133	First Observation of Low-Temperature Magnetic Transition in CuAgSe. Journal of Physical Chemistry C, 2018, 122, 19139-19145.	3.1	4
134	Achieving superior cycling stability byin situforming NdH₂â€“Mgâ€“Mg₂Ni nanocomposites. Journal of Materials Chemistry A, 2018, 6, 23308-23317.	10.3	67
135	Inhibitory effect of Ti and La on Fe dissolution in Alâ€“Znâ€“Si bath by in-situ SXRD, SXRF, TEM and DFT calculation. Materials Characterization, 2018, 145, 135-141.	4.4	6
136	Insights into the composition exploration of novel hydrogen storage alloys: evaluation of the Mgâ€“Niâ€“Ndâ€“H phase diagram. Journal of Materials Chemistry A, 2017, 5, 3848-3864.	10.3	62
137	Pd(0) loaded Zn₂(azoBDC)₂(dabco) as a heterogeneous catalyst. CrystEngComm, 2017, 19, 4182-4186.	2.6	13
138	High-Performance Hydrogen Storage Nanoparticles Inside Hierarchical Porous Carbon Nanofibers with Stable Cycling. ACS Applied Materials & Interfaces, 2017, 9, 15502-15509.	8.0	20
139	Tailoring phase transition temperatures in perovskites via A-site vacancy generation. Dalton Transactions, 2017, 46, 7253-7260.	3.3	7
140	Directly anchoring Fe3C nanoclusters and FeNx sites in ordered mesoporous nitrogen-doped graphitic carbons to boost electrocatalytic oxygen reduction. Carbon, 2017, 121, 143-153.	10.3	71
141	Temperature-regulated guest admission and release in microporous materials. Nature Communications, 2017, 8, 15777.	12.8	60
142	Carbonâ€Coated Na_{3.32}Fe_{2.34}(P₂O₇)₂ Cathode Material for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605535.	21.0	161
143	Solving Key Challenges in Battery Research Using In Situ Synchrotron and Neutron Techniques. Advanced Energy Materials, 2017, 7, 1602831.	19.5	67
144	Multiangular Rod-Shaped Na_{0.44}MnO₂ as Cathode Materials with High Rate and Long Life for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3644-3652.	8.0	107

#	Article	IF	Citations
145	Effect of trace Na additions on the hydriding kinetics of hypo-eutectic Mgâ€“Ni alloys. International Journal of Hydrogen Energy, 2017, 42, 6851-6861.	7.1	10
146	In-situ investigation of the hydrogen release mechanism in bulk Mg2NiH4. Journal of Power Sources, 2017, 341, 130-138.	7.8	55
147	Charge Transfer in Ultrafine LDH Nanosheets/Graphene Interface with Superior Capacitive Energy Storage Performance. ACS Applied Materials & Interfaces, 2017, 9, 37645-37654.	8.0	134
148	The cycling stability of the in situ formed Mg-based nanocomposite catalyzed by YH₂. Journal of Materials Chemistry A, 2017, 5, 17532-17543.	10.3	93
149	Impact of pressure on physicochemical properties of starch dispersions. Food Hydrocolloids, 2017, 68, 164-177.	10.7	74
150	Phase transition and hydrogen storage properties of Mg17Ba2 compound. Journal of Alloys and Compounds, 2017, 690, 519-522.	5.5	65
151	Effect of impurity N2 concentration on the hydriding kinetics of Na-doped Mgâ€“Ni alloys. International Journal of Hydrogen Energy, 2017, 42, 366-375.	7.1	2
152	In-situ synchrotron X-ray diffraction investigation on hydrogen-induced decomposition of long period stacking ordered structure in Mgâ€“Niâ€“Y system. Scripta Materialia, 2017, 127, 102-107.	5.2	70
153	Ion-transport phenomena and anomalous transformations in strontium uranium oxides. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1428-C1428.	0.1	0
154	Retrogradation of Maize Starch after High Hydrostatic Pressure Gelation: Effect of Amylose Content and Depressurization Rate. PLoS ONE, 2016, 11, e0156061.	2.5	12
155	Comprehensive Determination of Kinetic Parameters in Solid-State Phase Transitions: An Extended Jonhsonâ€“Mehlâ€“Avramiâ€“Kolomogorov Model with Analytical Solutions. Crystal Growth and Design, 2016, 16, 2404-2415.	3.0	206
156	Aluminum Borohydride Complex with Ethylenediamine: Crystal Structure and Dehydrogenation Mechanism Studies. Journal of Physical Chemistry C, 2016, 120, 10192-10198.	3.1	9
157	Effect of trace Na additions on the hydrogen absorption kinetics of Mg₂Ni. Journal of Materials Research, 2016, 31, 1316-1327.	2.6	17
158	Understanding Performance Differences from Various Synthesis Methods: A Case Study of Spinel LiCr_{0.2}Ni_{0.4}Mn_{1.4}O₄ Cathode Material. ACS Applied Materials & Interfaces, 2016, 8, 26051-26057.	8.0	12
159	Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin Î³-FeOOH Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 21334-21342.	8.0	49
160	Nonstoichiometry in Strontium Uranium Oxide: Understanding the Rhombohedralâ€“Orthorhombic Transition in SrUO₄. Inorganic Chemistry, 2016, 55, 9329-9334.	4.0	22
161	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie, 2016, 128, 12658-12662.	2.0	42
162	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 12470-12474.	13.8	178

#	Article	IF	Citations
163	Achieving High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries With S@Interconnected Mesoporous Carbon Hollow Nanospheres. Journal of the American Chemical Society, 2016, 138, 16576-16579.	13.7	280
164	Influence of Ti and La Additions on the Formation of Intermetallic Compounds in the Al-Zn-Si Bath. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6542-6554.	2.2	11
165	Exchange Method Using Acidâ€Solvent Synergy for Metalâ€“Organic Framework Synthesis (EASYâ€MOFs) Based on a Typical Pillarâ€Layered Parent Structure. European Journal of Inorganic Chemistry, 2016, 2016, 1466-1469.	2.0	6
166	The influence of ageing on the stabilisation of interfacial (Cu,Ni)6(Sn,Zn)5 and (Cu,Au,Ni)6Sn5 intermetallics in Pb-free Ball Grid Array (BGA) solder joints. Journal of Alloys and Compounds, 2016, 685, 471-482.	5.5	37
167	Dehydrogenation properties of chromium-based ammine borohydrides: CrCl3Â·nNH3/3LiBH4 (nÂ=Â3, 4 and) Tj ETQq1 1 0.784314 rgBT	7.1	5
168	A comparative study on conversion of porous and non-porous metalâ€“organic frameworks (MOFs) into carbon-based composites for carbon dioxide capture. Polyhedron, 2016, 120, 30-35.	2.2	21
169	Thermodynamic investigation on phase formation in the Alâ€“Si rich region of Alâ€“Siâ€“Ti system. Materials and Design, 2016, 102, 78-90.	7.0	67
170	In situ study starch gelatinization under ultra-high hydrostatic pressure using synchrotron SAXS. Food Hydrocolloids, 2016, 56, 58-61.	10.7	56
171	Phase equilibria of Ceâ€“Mgâ€“Ni ternary system at 673ÂK and hydrogen storage properties of selected alloy. International Journal of Hydrogen Energy, 2016, 41, 1725-1735.	7.1	26
172	Comparative analysis of ex-situ and operando X-ray diffraction experiments for lithium insertion materials. Journal of Power Sources, 2016, 302, 126-134.	7.8	20
173	Phase Equilibria, Crystal Structure and Hydriding/Dehydriding Mechanism of Nd4Mg80Ni8 Compound. Scientific Reports, 2015, 5, 15385.	3.3	53
174	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	6.8	302
175	Metalâ€Borohydrideâ€Modified Zr(BH₄)₄â‹…8â€‰NH₃: Lowâ€Temperature Dehydrogenation Yielding Highly Pure Hydrogen. Chemistry - A European Journal, 2015, 21, 14931-14936.	3.3	13
176	Nano-confined multi-synthesis of a Liâ€“Mgâ€“Nâ€“H nanocomposite towards low-temperature hydrogen storage with stable reversibility. Journal of Materials Chemistry A, 2015, 3, 12646-12652.	10.3	25
177	In situsynchrotron X-ray diffraction investigation ofÂthe evolution of a PbO2/PbSO4surface layer onÂaÂcopper electrowinning Pb anode in a novel electrochemical flow cell. Journal of Synchrotron Radiation, 2015, 22, 366-375.	2.4	12
178	Converting 3D rigid metalâ€“organic frameworks (MOFs) to 2D flexible networks via ligand exchange for enhanced CO₂/N₂ and CH₄/N₂ separation. Chemical Communications, 2015, 51, 14716-14719.	4.1	45
179	New High-Pressure Polymorph of the Nonlinear Optical Crystal BaTeMo₂O₉. Crystal Growth and Design, 2015, 15, 3110-3113.	3.0	8
180	Revisiting the Hydrogen Storage Behavior of the Na-O-H System. Materials, 2015, 8, 2191-2203.	2.9	18

#	Article	IF	Citations
181	Facile Method To Synthesize Na-Enriched Na_{1+x}FeFe(CN)₆ Frameworks as Cathode with Superior Electrochemical Performance for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 1997-2003.	6.7	163
182	Sodium borohydride hydrazinates: synthesis, crystal structures, and thermal decomposition behavior. Journal of Materials Chemistry A, 2015, 3, 11269-11276.	10.3	19
183	Multifunctional conducing polymer coated Na1+MnFe(CN)6 cathode for sodium-ion batteries with superior performance via a facile and one-step chemistry approach. Nano Energy, 2015, 13, 200-207.	16.0	165
184	Ammonia borane modified zirconium borohydride octaammoniate with enhanced dehydrogenation properties. Journal of Materials Chemistry A, 2015, 3, 5299-5304.	10.3	22
185	Kinetics of the Î² â†' Î± Transformation of Tin: Role of Î±-Tin Nucleation. Crystal Growth and Design, 2015, 15, 5767-5773.	3.0	12
186	The role of Ï€-bonding on the high temperature structure of the double perovskites Ba₂CaUO₆and BaSrCaUO₆. Dalton Transactions, 2015, 44, 16036-16044.	3.3	1
187	X-ray diffraction investigation of amorphous calcium phosphate and hydroxyapatite under ultra-high hydrostatic pressure. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 1225-1231.	4.9	8
188	Synthesis, structure and dehydrogenation of zirconium borohydride octaammoniate. Chemical Communications, 2015, 51, 2794-2797.	4.1	34
189	Ammonia borane destabilized by aluminium hydride: A mutual enhancement for hydrogen release. International Journal of Hydrogen Energy, 2015, 40, 1047-1053.	7.1	15
190	The influence of Ni and Zn additions on microstructure and phase transformations in Snâ€“0.7Cu/Cu solder joints. Acta Materialia, 2015, 83, 357-371.	7.9	119
191	Enhancing the High Rate Capability and Cycling Stability of LiMn₂O₄ by Coating of Solid-State Electrolyte LiNbO₃. ACS Applied Materials & Interfaces, 2014, 6, 22155-22165.	8.0	75
192	Three-dimensional-network Li3V2(PO4)3/C composite as high rate lithium ion battery cathode material and its compatibility with ionic liquid electrolytes. Journal of Power Sources, 2014, 246, 124-131.	7.8	48
193	Synchrotron X-ray Powder Diffraction for Fast, In-Situ Insights. Synchrotron Radiation News, 2014, 27, 18-20.	0.8	5
194	Understanding Local Bonding Structures of Ni-Doped Chromium Nitride Coatings through Synchrotron Radiation NEXAFS Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 18573-18579.	3.1	13
195	The decomposition of Î±-LiN₂H₃BH₃: an unexpected hydrogen release from a homopolar protonâ€“proton pathway. Journal of Materials Chemistry A, 2014, 2, 15627.	10.3	7
196	Temperature controlled invertible selectivity for adsorption of N2 and CH4 by molecular trapdoor chabazites. Chemical Communications, 2014, 50, 4544.	4.1	33
197	Combination of two H-enriched Bâ€“N based hydrides towards improved dehydrogenation properties. International Journal of Hydrogen Energy, 2014, 39, 11668-11674.	7.1	2
198	Study on Vanadium Substitution to Iron in Li2FeP2O7 as Cathode Material for Lithium-ion Batteries. Electrochimica Acta, 2014, 141, 195-202.	5.2	12

#	Article	IF	Citations
199	Kinetics of the polymorphic phase transformation of Cu6Sn5. Acta Materialia, 2014, 69, 135-148.	7.9	48
200	Hydrogenation Synthesis of Blue TiO₂ for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 8824-8830.	3.1	167
201	Ni segregation in the interfacial (Cu,Ni)6Sn5 intermetallic layer of Sn-0.7Cu-0.05Ni/Cu ball grid array (BGA) joints. Intermetallics, 2014, 54, 20-27.	3.9	24
202	Pressureâ€Induced Intersite Bïï£¿M (M=Ru,â€…Ir) Valence Transitions in Hexagonal Perovskites. Angewandte Chemie - International Edition, 2014, 53, 3414-3417.	13.8	14
203	A synergistic strategy established by the combination of two H-enriched Bâ€“N based hydrides towards superior dehydrogenation. Journal of Materials Chemistry A, 2013, 1, 10155.	10.3	26
204	A two-dimensional zeolitic imidazolate framework with a cushion-shaped cavity for CO2 adsorption. Chemical Communications, 2013, 49, 9500.	4.1	514
205	Synthesis, structures and hydrogen storage properties of two new H-enriched compounds: Mg(BH4)2(NH3BH3)2 and Mg(BH4)2Â·(NH3)2(NH3BH3). Dalton Transactions, 2013, 42, 14365.	3.3	33
206	Synthesis and advanced dehydrogenation properties of niobium-based ammine borohydride. International Journal of Hydrogen Energy, 2013, 38, 9236-9242.	7.1	6
207	Two novel derivatives of ammonia borane for hydrogen storage: synthesis, structure, and hydrogen desorption investigation. Journal of Materials Chemistry A, 2013, 1, 12263.	10.3	18
208	A simple electrochemical cell for in-situ fundamental structural analysis using synchrotron X-ray powder diffraction. Journal of Power Sources, 2013, 244, 109-114.	7.8	45
209	In situ study of maize starch gelatinization under ultra-high hydrostatic pressure using X-ray diffraction. Carbohydrate Polymers, 2013, 97, 235-238.	10.2	47
210	Light metals decorated covalent triazine-based frameworks as a high capacity hydrogen storage medium. Journal of Materials Chemistry A, 2013, 1, 11705.	10.3	47
211	Stabilization of NaZn(BH₄)₃via nanoconfinement in SBA-15 towards enhanced hydrogen release. Journal of Materials Chemistry A, 2013, 1, 250-257.	10.3	34
212	The effect of different binders on electrochemical properties of LiNi1/3Mn1/3Co1/3O2 cathode material in lithium ion batteries. Journal of Power Sources, 2013, 225, 172-178.	7.8	202
213	Improved dehydrogenation properties of the combined Mg(BH4)2Â·6NH3â€“nNH3BH3 system. International Journal of Hydrogen Energy, 2013, 38, 16199-16207.	7.1	16
214	Metal cation-promoted hydrogen generation in activated aluminium borohydride ammoniates. Acta Materialia, 2013, 61, 4787-4796.	7.9	28
215	Nanoconfinement significantly improves the thermodynamics and kinetics of co-infiltrated 2LiBH4â€“LiAlH4 composites: Stable reversibility of hydrogen absorption/resorption. Acta Materialia, 2013, 61, 6882-6893.	7.9	30
216	Phase stability and thermal expansion behavior of Cu6Sn5 intermetallics doped with Zn, Au and In. Intermetallics, 2013, 43, 85-98.	3.9	41

#	Article	IF	Citations
217	Scandium and vanadium borohydride ammoniates: Enhanced dehydrogenation behavior upon coordinative expansion and establishment of HÎ´+â‹¯â^'ÎH interactions. Acta Materialia, 2013, 61, 3110-3119.	7.9	35
218	Valence changes of manganese and structural phase transitions in Sr1â^'xPrxMnO3 (0.1â‰¤xâ‰¤0.6). Journal of Solid State Chemistry, 2013, 201, 115-127.	2.9	9
219	Synthesis of ammine dual-metal (V, Mg) borohydrides with enhanced dehydrogenation properties. International Journal of Hydrogen Energy, 2013, 38, 5322-5329.	7.1	12
220	Effect of Zn, Au, and In on the polymorphic phase transformation in Cu₆Sn₅intermetallics. Journal of Materials Research, 2012, 27, 2609-2614.	2.6	21
221	Discriminative Separation of Gases by a â€œMolecular Trapdoorâ€•Mechanism in Chabazite Zeolites. Journal of the American Chemical Society, 2012, 134, 19246-19253.	13.7	321
222	Structure and decomposition of zinc borohydride ammonia adduct: towards a pure hydrogen release. Energy and Environmental Science, 2012, 5, 7590.	30.8	82
223	A novel aided-cation strategy to advance the dehydrogenation of calcium borohydride monoammoniate. Journal of Materials Chemistry, 2012, 22, 5312.	6.7	44
224	Structure and hydrogenstorage properties of the first rare-earth metal borohydride ammoniate: Y(BH₄)₃Â·4NH₃. Journal of Materials Chemistry, 2012, 22, 1061-1068.	6.7	55
225	Ammine bimetallic (Na, Zn) borohydride for advanced chemical hydrogen storage. Journal of Materials Chemistry, 2012, 22, 7300.	6.7	52
226	The crystal structure, microhardness and thermal stability of the Ti26Al55Zn19 alloy. Intermetallics, 2012, 26, 136-141.	3.9	9
227	Complex Ammine Titanium(III) Borohydrides as Advanced Solid Hydrogen-Storage Materials with Favorable Dehydrogenation Properties. Chemistry of Materials, 2012, 24, 3370-3379.	6.7	61
228	A New Ammine Dualâ€Cation (Li, Mg) Borohydride: Synthesis, Structure, and Dehydrogenation Enhancement. Chemistry - A European Journal, 2012, 18, 6825-6834.	3.3	62
229	Rapid Lithium Insertion and Location of Mobile Lithium in the Defect Perovskite Li_{0.18}Sr_{0.66}Ti_{0.5}Nb_{0.5}O₃. ChemPhysChem, 2012, 13, 2293-2296.	2.1	12
230	Coupling of Jahnâ€“Teller and tilting distortions in high temperature structural phase transition of the Ca0.2Sr0.6Nd0.2Mn1â^'xCrxO3; 0Ââ‰ÂxÂâ‰Â0.2 perovskites. Solid State Sciences, 2012, 14, 506-514.	3.2	3
231	A GBH/LiBH4 coordination system with favorable dehydrogenation. Journal of Materials Chemistry, 2011, 21, 7138.	6.7	27
232	Hydrazine bisborane as a promising material for chemical hydrogen storage. International Journal of Hydrogen Energy, 2011, 36, 13640-13644.	7.1	23
233	Temperature and composition dependent structural investigation of the defect perovskite series Sr1â^'xTi1â^'2xNb2xO3, 0â‰¤xâ‰¤0.2. Journal of Solid State Chemistry, 2010, 183, 1998-2003.	2.9	11
234	Compressibility of Al64Pd30.4Fe5.6. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 119-122.	0.8	2

#	Article	IF	Citations
235	Transition Metal Borides: Superhard versus Ultraâ€incompressible. Advanced Materials, 2008, 20, 3620-3626.	21.0	467