Salt melt synthesis of ceramics, semiconductors and ca

Chemical Society Reviews

42, 8237

DOI: 10.1039/c3cs60159e

Citation Report

#	Article	IF	Citations
2	In situ studies of a platform for metastable inorganic crystal growth and materials discovery. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10922-10927.	3.3	118
4	Preparation of biomorphic silicon carbideâ€“mullite ceramics using molten salt synthesis. Materials Chemistry and Physics, 2014, 147, 198-203.	2.0	13
5	Low temperature molten salt synthesis of anatase TiO2 and its electrochemical properties. Solid State Ionics, 2014, 262, 120-123.	1.3	35
6	Highly mesoporous carbons derived from biomass feedstocks templated with eutectic salt ZnCl₂/KCl. Journal of Materials Chemistry A, 2014, 2, 19324-19329.	5.2	80
7	Mesoporous graphene-like carbon sheet: high-power supercapacitor and outstanding catalyst support. Journal of Materials Chemistry A, 2014, 2, 12262-12269.	5.2	85
8	Semiconductor Pb2P2S6 and size-dependent band gap energy of its nanoparticles. RSC Advances, 2014, 4, 34288-34293.	1.7	9
9	Decomposition synthesis of tuneable, macroporous carbon foams from crystalline precursors via in situ templating. Journal of Materials Chemistry A, 2014, 2, 18076-18081.	5.2	11
10	Facile and scalable synthesis of Ti₅Si₃nanoparticles in molten salts for metal-matrix nanocomposites. Chemical Communications, 2014, 50, 1454-1457.	2.2	26
11	Large-Scale Synthesis of Monodisperse Magnesium Ferrite via an Environmentally Friendly Molten Salt Route. Inorganic Chemistry, 2014, 53, 2053-2057.	1.9	21
12	Graphene induced formation of single crystal Pt nanosheets through 2-dimensional aggregation and sintering of nanoparticles in molten salt medium. Carbon, 2014, 77, 1123-1131.	5.4	19
14	Harvesting Solar Light with Crystalline Carbon Nitrides for Efficient Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2014, 53, 11001-11005.	7.2	295
15	Layered Li(Ni0.2Mn0.2Co0.6)O2 synthesized by a molten salt method for lithium-ion batteries. RSC Advances, 2014, 4, 24538.	1.7	14
16	Synthesis of GaN:ZnO solid solution photocatalysts with hollow polyhedral morphology through a molten-salt-assisted nitridation method. Materials Letters, 2014, 128, 319-321.	1.3	4
17	Sonication assisted preparation of graphene oxide/graphitic-C3N4 nanosheet hybrid with reinforced photocurrent for photocatalyst applications. Dalton Transactions, 2014, 43, 6295.	1.6	178
19	Anatase titania synthesised at low temperature: recent breakthroughs. Bioinspired, Biomimetic and Nanobiomaterials, 2015, 4, 121-132.	0.7	2
20	Towards Shape Control of Metal Oxide Nanocrystals in Confined Molten Media. ChemNanoMat, 2015, 1, 18-26.	1.5	18
21	Synthesis, Structure, and Thermal Instability of the Cu₂Ta₄O₁₁ Phase. Crystal Growth and Design, 2015, 15, 552-558.	1.4	11
22	Mixed Oxides, (Ni_{1â€“x}Zn_x)Fe₂O₄ (x = 0, 0.25, 0.5, 0.75, 1): Molten Salt Synthesis, Characterization and Its Lithium-Storage Performance for Lithium Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 4709-4718.	1.5	58

#	Article	IF	Citations
24	Molten salt assisted synthesis of 3Câ€“SiC nanowire and its photoluminescence properties. Ceramics International, 2015, 41, 12614-12620.	2.3	43
25	Schiff-base polymer derived nitrogen-rich microporous carbon spheres synthesized by molten-salt route for high-performance supercapacitors. RSC Advances, 2015, 5, 60956-60961.	1.7	11
26	Molten Salt Synthesis, Polymorphism, and Microwave Dielectric Properties of Ba 8 NiTa 6 O 24 Perovskite. Journal of the American Ceramic Society, 2015, 98, 2451-2458.	1.9	8
27	Formation Mechanism of Nanostructured Metal Carbides via Salt-Flux Synthesis. Inorganic Chemistry, 2015, 54, 3889-3895.	1.9	9
28	(BiSe)_{1.23}CrSe₂ and (BiSe)_{1.22}(Cr_{1.2}Se₂)₂: Magnetic Anisotropy in the First Structurally Characterized Biâ€“Seâ€“Cr Ternary Compounds. Inorganic Chemistry, 2015, 54, 2765-2771.	1.9	14
29	Carbides of group IVA, VA and VIA transition metals as alternative HER and ORR catalysts and support materials. Journal of Materials Chemistry A, 2015, 3, 10085-10091.	5.2	153
30	Domino games: Controlling structure and patterns of carbon nanomaterials in 2D & 3D. Nano Today, 2015, 10, 593-614.	6.2	22
31	Molten salt assisted synthesis of black titania hexagonal nanosheets with tuneable phase composition and morphology. RSC Advances, 2015, 5, 85928-85932.	1.7	21
32	Controlled nitridation of tantalum (oxy)nitride nanoparticles towards optimized metal-support interactions with gold nanocatalysts. RSC Advances, 2015, 5, 89282-89289.	1.7	12
33	Novel borothermal synthesis of VB2 powders. International Journal of Materials Research, 2015, 106, 1206-1208.	0.1	10
34	Molten salt synthesis of nitrogen-doped porous carbons for hydrogen sulfide adsorptive removal. Carbon, 2015, 95, 852-860.	5.4	62
35	Dendritic Tip-on Polytriazine-Based Carbon Nitride Photocatalyst with High Hydrogen Evolution Activity. Chemistry of Materials, 2015, 27, 8237-8247.	3.2	140
36	Study of the carbohalogenation process in molten KClâ€“NaCl equimolar mixture. Reaction Kinetics, Mechanisms and Catalysis, 2015, 116, 327-337.	0.8	6
37	Template Free Facile Molten Synthesis and Energy Storage Studies on MCo₂O₄ (M = Mg, Mn) as Anode for Li-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2015, 3, 3035-3042.	3.2	102
38	A Novel Mesoporous Single-Crystal-Like Bi₂WO₆ with Enhanced Photocatalytic Activity for Pollutants Degradation and Oxygen Production. ACS Applied Materials & Interfaces, 2015, 7, 25716-25724.	4.0	119
39	Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Hollow Microspheres and Their Lithiumâ€Storage Properties. ChemElectroChem, 2015, 2, 127-133.	1.7	25
40	Compact Coupled Graphene and Porous Polyaryltriazineâ€Derived Frameworks as High Performance Cathodes for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 1812-1816.	7.2	142
41	Highly Porous Materials as Tunable Electrocatalysts for the Hydrogen and Oxygen Evolution Reaction. Advanced Functional Materials, 2015, 25, 393-399.	7.8	169

#	Article	IF	Citations
42	Flux-mediated crystal growth of metal oxides: synthetic tunability of particle morphologies, sizes, and surface features for photocatalysis research. CrystEngComm, 2015, 17, 2225-2241.	1.3	107
43	Carbon materialization of ionic liquids: from solvents to materials. Materials Horizons, 2015, 2, 168-197.	6.4	165
44	Effects of Catalyst-Support Materials on the Performance of Fuel Cells. Nanostructure Science and Technology, 2016, , 517-550.	0.1	6
45	Fabrication of well-shaped Sr2KTa5O15 nanorods with a tetragonal tungsten bronze structure by a flux method for artificial photosynthesis. Applied Catalysis B: Environmental, 2016, 199, 272-281.	10.8	34
46	Eutectic Syntheses of Graphitic Carbon with High Pyrazinic Nitrogen Content. Advanced Materials, 2016, 28, 1287-1294.	11.1	90
47	Synthesis of Twoâ€dimensional Microporous Carbonaceous Polymer Nanosheets and Their Application as Highâ€performance CO₂ Capture Sorbent. Chemistry - an Asian Journal, 2016, 11, 1849-1855.	1.7	11
48	Nanomaterials for Fuel Cell Catalysis. Nanostructure Science and Technology, 2016, , .	0.1	11
49	p-Type CaFe2O4 semiconductor nanorods controllably synthesized by molten salt method. Journal of Energy Chemistry, 2016, 25, 381-386.	7.1	26
50	Molten salt synthesis of nitrogen doped porous carbon: a new preparation methodology for high-volumetric capacitance electrode materials. Journal of Materials Chemistry A, 2016, 4, 9832-9843.	5.2	163
51	Effects of Cellulose, Hemicellulose, and Lignin on the Structure and Morphology of Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 3750-3756.	3.2	261
52	Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes. Carbon, 2016, 102, 477-486.	5.4	99
53	Molten salt synthesis of Bi2WO6 powders with enhanced visible-light-induced photocatalytic activities. Journal of Alloys and Compounds, 2016, 680, 301-308.	2.8	30
54	Effect of Initial Reactants and Reaction Temperature on Molten Salt Synthesis of CuCo₂O₄ and Its Sustainable Energy Storage Properties. ACS Sustainable Chemistry and Engineering, 2016, 4, 3076-3086.	3.2	24
55	Low temperature synthesis of novel SrCe0.9Yb0.1O3â^'Î±-chlorides composite electrolytes for intermediate temperature protonic ceramics fuel cells. Ceramics International, 2016, 42, 18136-18140.	2.3	8
56	SnO₂ Based Materials and Their Energy Storage Studies. ACS Sustainable Chemistry and Engineering, 2016, 4, 6268-6276.	3.2	31
57	The flux growth of single-crystalline CoTiO₃ polyhedral particles and improved visible-light photocatalytic activity of heterostructured CoTiO₃/g-C₃N₄ composites. Dalton Transactions, 2016, 45, 17748-17758.	1.6	65
58	Biomass-derived carbon: synthesis and applications in energy storage and conversion. Green Chemistry, 2016, 18, 4824-4854.	4.6	735
59	Lowâ€Temperature Synthesis of Mesoporous SiC Hollow Spheres by Magnesiothermic Reduction. Journal of the American Ceramic Society, 2016, 99, 1859-1861.	1.9	19

#	Article	IF	Citations
60	Three Strongly Coupled Allotropes in a Functionalized Porous Allâ€Carbon Nanocomposite as a Superior Anode for Lithiumâ€ion Batteries. ChemElectroChem, 2016, 3, 698-703.	1.7	23
61	Novel synthesis of ultra-long single crystalline Î²-SiC nanofibers with strong blue/green luminescent properties. Ceramics International, 2016, 42, 4600-4606.	2.3	28
62	From covalentâ€“organic frameworks to hierarchically porous B-doped carbons: a molten-salt approach. Journal of Materials Chemistry A, 2016, 4, 4273-4279.	5.2	88
63	Low temperature molten salt synthesis of YAG: Ce spherical powder and its thermally stable luminescent properties after post-annealing treatment. Materials Science in Semiconductor Processing, 2016, 44, 101-107.	1.9	16
64	Chlorine-Induced In Situ Regulation to Synthesize Graphene Frameworks with Large Specific Area for Excellent Supercapacitor Performance. ACS Applied Materials & Interfaces, 2016, 8, 6481-6487.	4.0	29
65	A Simple Pyrolysis Route To Synthesize Carbon Nanofibers in Molten Zinc Chloride as an Anode Material for Li Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 5326-5330.	1.5	10
66	Preparation of SiC/SiO2 coreâ€“shell nanowires via molten salt mediated carbothermal reduction route. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 19-24.	1.3	22
67	Morphology Evolution of Tin-Based Oxide Hierarchical Structures Synthesized by Molten Salt Approach and Their Applications as Anode for Lithium Ion Battery. Crystal Growth and Design, 2016, 16, 34-41.	1.4	13
68	Graphene-directed two-dimensional porous carbon frameworks for high-performance lithiumâ€“sulfur battery cathodes. Journal of Materials Chemistry A, 2016, 4, 314-320.	5.2	83
69	Meso- and microporous soft templated hydrothermal carbons for dye removal from water. Green Chemistry, 2016, 18, 1137-1146.	4.6	118
70	Topochemical molten salt synthesis for functional perovskite compounds. Chemical Science, 2016, 7, 855-865.	3.7	65
71	K-ion and Na-ion storage performances of Co₃O₄â€“Fe₂O₃nanoparticle-decorated super P carbon black prepared by a ball milling process. Nanoscale, 2017, 9, 3646-3654.	2.8	176
72	Nanoceria synthesis in the <scp>KC</scp>lâ€LiCl salt system: Crystal formation and properties. Journal of the American Ceramic Society, 2017, 100, 1863-1875.	1.9	19
73	Organics- and Surfactant-Free Molten Salt Medium Controlled Synthesis of Pt-M (M = Cu and Pd) Bi- and Trimetallic Nanocubes and Nanosheets. ACS Sustainable Chemistry and Engineering, 2017, 5, 4205-4213.	3.2	23
74	One-pot synthesis of highly activated carbons from melamine and terephthalaldehyde as electrodes for high energy aqueous supercapacitors. Journal of Materials Chemistry A, 2017, 5, 14619-14629.	5.2	58
75	Sol-gel chemistry, templating and spin-coating deposition: A combined approach to control in a simple way the porosity of inorganic thin films/coatings. Microporous and Mesoporous Materials, 2017, 248, 18-29.	2.2	72
76	Synthesis and conductivity of strontium cerate doped by erbium oxide and its composite electrolyte for intermediate temperature fuel cell. Ceramics International, 2017, 43, 9317-9321.	2.3	16
77	Molten salt synthesis and characterization of fast ion conductor Li6.75La3Zr1.75Ta0.25O12. Journal of Solid State Electrochemistry, 2017, 21, 2921-2928.	1.2	19

#	Article	IF	Citations
78	Reactive Hypersaline Route: One-Pot Synthesis of Porous Photoactive Nanocomposites. Langmuir, 2017, 33, 5213-5222.	1.6	13
79	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. Chemical Society Reviews, 2017, 46, 3510-3528.	18.7	184
80	3D Au-decorated BiMoO₆ nanosheet/TiO₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 16412-16421.	5.2	150
81	Synthesis of BaTaO₂N oxynitride from Ba-rich oxide precursor for construction of visible-light-driven Z-scheme overall water splitting. Dalton Transactions, 2017, 46, 10707-10713.	1.6	45
82	Rapid mass production of two-dimensional metal oxides and hydroxides via the molten salts method. Nature Communications, 2017, 8, 15630.	5.8	258
83	Synthesis of Pt₃Y and Other Earlyâ€“Late Intermetallic Nanoparticles by Way of a Molten Reducing Agent. Journal of the American Chemical Society, 2017, 139, 5672-5675.	6.6	77
84	Intermediate temperature fuel cell durability of Eu-doped SrCeO3-SrZrO3 solid solution/ NaCl-KCl composite electrolyte. Ceramics International, 2017, 43, 16931-16935.	2.3	20
85	In Situ Wrapping Si Nanoparticles with 2D Carbon Nanosheets as High-Areal-Capacity Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 38159-38164.	4.0	83
86	Preparation of CaF2 microspheres by thermal decomposition of trifluoroacetate precursor in molten salt medium. Materials Letters, 2017, 209, 357-359.	1.3	7
87	Efficient Photocatalytic Hydrogen Evolution on Band Structure Tuned Polytriazine/Heptazine Based Carbon Nitride Heterojunctions with Ordered Needle-like Morphology Achieved by an In Situ Molten Salt Method. Journal of Physical Chemistry C, 2017, 121, 21497-21509.	1.5	64
88	Salt-melt synthesis of B₂O₃, P₂O₅ and V₂O₅ modified high-alumina mullite nanocomposites with promising photoluminescence properties. Materials Research Express, 2017, 4, 105005.	0.8	5
89	Fast and scalable synthesis of strontium niobates with controlled stoichiometry. CrystEngComm, 2017, 19, 5351-5355.	1.3	9
90	Hydroxylated graphene-based flexible carbon film with ultrahigh electrical and thermal conductivity. Nanotechnology, 2017, 28, 39LT01.	1.3	24
91	Low-Dimensional Nitridosilicates Grown from Ca/Li Flux: Void Metal Ca8In2SiN4and Semiconductor Ca3SiN3H. Inorganic Chemistry, 2017, 56, 9361-9368.	1.9	7
92	Experimental measurements of thermal conductivity of alumina nanofluid synthesized in salt melt. AIP Advances, 2017, 7, .	0.6	18
93	One-pot molten salt synthesis of CdNb2O6/Cd2Nb2O7 heterojunction photocatalysts with enhanced photocatalytic properties. Separation and Purification Technology, 2017, 186, 282-289.	3.9	10
94	Synthesis of monoclinic and cubic (metastable) nanocrystalline HfO2 through the nitrate fusion technique. Ceramics International, 2017, 43, 12623-12632.	2.3	8
95	Molten salt synthesis of LaCoO3 perovskite. Journal of Materials Science, 2017, 52, 11383-11390.	1.7	11

#	Article	IF	Citations
96	Panoramic Synthesis as an Effective Materials Discovery Tool: The System Cs/Sn/P/Se as a Test Case. Journal of the American Chemical Society, 2017, 139, 10814-10821.	6.6	29
97	Simple Reactor for Ultrasonic Spray Synthesis of Nanostructured Materials. Chemistry of Materials, 2017, 29, 62-68.	3.2	21
98	Ionic Liquids and Poly(ionic liquid)s for Morphosynthesis of Inorganic Materials. Chemistry - A European Journal, 2017, 23, 5391-5403.	1.7	72
99	Synthesis and characterization of Ce-doped HfO2 nanoparticles in molten chlorides. Journal of Alloys and Compounds, 2017, 692, 448-453.	2.8	7
100	Preface for Thematic Section: Molten Slags, Fluxes, and Salts for Sustainable Processing. Journal of Sustainable Metallurgy, 2017, 3, 669-670.	1.1	0
101	Gadolinium Doped Strontium Cerate Prepared by Citric- Nitrate Auto-Combustion Process and Intermediate Temperature Electrical Properties of Its Composite Electrolyte. International Journal of Electrochemical Science, 2017, , 9689-9696.	0.5	7
102	Low Temperature Synthesis of SrCe0.9Eu0.1O3-Î± by Sol-Gel Method and SrCe0.9Eu0.1O3-Î±-NaCl-KCl Composite Electrolyte for Intermediate Temperature Fuel Cells. International Journal of Electrochemical Science, 2017, 12, 11594-11601.	0.5	9
103	Transparent glass-ceramics functionalized by dispersed crystals. Progress in Materials Science, 2018, 97, 38-96.	16.0	236
104	Factors Governing MgO(111) Faceting in the Thermal Decomposition of Oxide Precursors. Chemistry of Materials, 2018, 30, 2641-2650.	3.2	34
105	Mesoporous Hollow Ge Microspheres Prepared via Molten-Salt Metallothermic Reaction for High-Performance Li-Storage Anode. ACS Applied Materials & Interfaces, 2018, 10, 8399-8404.	4.0	32
106	Fabrication, Densification and Thermionic Emission Property of Lanthanum Hexaboride. Electronic Materials Letters, 2018, 14, 569-573.	1.0	6
107	The Concept of â€œNoble, HeteroatomâEDoped Carbons,â€•Their Directed Synthesis by Electronic Band Control of Carbonization, and Applications in Catalysis and Energy Materials. Advanced Materials, 2018, 30, e1706836.	11.1	141
108	Multicationic Sr4Mn3O10 mesostructures: molten salt synthesis, analytical electron microscopy study and reactivity. Materials Horizons, 2018, 5, 480-485.	6.4	5
109	A Molecular Pillar Approach To Grow Vertical Covalent Organic Framework Nanosheets on Graphene: Hybrid Materials for Energy Storage. Angewandte Chemie - International Edition, 2018, 57, 1034-1038.	7.2	198
110	(00l)-Facet-Exposed Planelike ABi₂Nb₂O₉ (A = Ca, Sr, Ba) Powders with a Single-Crystal Grain for Enhancement of Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 3840-3852.	3.2	28
111	One-step synthesis of ultra-high surface area nanoporous carbons and their application for electrochemical energy storage. Carbon, 2018, 131, 193-200.	5.4	119
112	Oil/molten salt interfacial synthesis of hybrid thin carbon nanostructures and their composites. Journal of Materials Chemistry A, 2018, 6, 4988-4996.	5.2	17
113	Nitrate fusion synthesis and two-step sintering of nanocrystalline yttria stabilized hafnia powders. Ceramics International, 2018, 44, 7393-7405.	2.3	1

#	Article	IF	Citations
114	Synthesis of Fine Cubic Li₇La₃Zr₂O₁₂ Powders in Molten LiClâ€“KCl Eutectic and Facile Densification by Reversal of Li⁺/H⁺ Exchange. ACS Applied Energy Materials, 2018, 1, 552-560.	2.5	34
115	Facile synthesis of high-surface-area nanoporous carbon from biomass resources and its application in supercapacitors. RSC Advances, 2018, 8, 1857-1865.	1.7	16
116	Multidimensional Evolution of Carbon Structures Underpinned by Temperatureâ€Induced Intermediate of Chloride for Sodiumâ€Ion Batteries. Advanced Science, 2018, 5, 1800080.	5.6	112
117	Molten salt assisted synthesis of microporous polyaniline nanosheets with superior gas sorption properties. Microporous and Mesoporous Materials, 2018, 267, 100-106.	2.2	8
118	Alkali metal boosted atom rearrangement in amorphous carbon towards crystalline graphitic belt skeleton for high performance supercapacitors. Energy Storage Materials, 2018, 15, 82-90.	9.5	50
119	Minimization of defects in Nb-doped TiO 2 photocatalysts by molten salt flux. Ceramics International, 2018, 44, 10249-10257.	2.3	8
120	Beyond the Compositional Threshold of Nanoparticle-Based Materials. Accounts of Chemical Research, 2018, 51, 930-939.	7.6	29
121	From natural clay minerals to porous silicon nanoparticles. Microporous and Mesoporous Materials, 2018, 260, 76-83.	2.2	18
122	Molten-salt synthesis of Ba5â^'xSrxNb4O15 solid solutions and their enhanced humidity sensing properties. Ceramics International, 2018, 44, 477-483.	2.3	12
123	Low temperature synthesis of LaB6 nanoparticles by a molten salt route. Powder Technology, 2018, 323, 203-207.	2.1	33
124	Effect of molten salt synthesis temperature on TiO2 and Li cycling properties. Journal of Solid State Electrochemistry, 2018, 22, 429-439.	1.2	5
125	Growth of {100}-faceted NaFeTiO₄ crystals with a tunable aspect ratio from a NaClâ€“Na₂SO₄ binary flux. CrystEngComm, 2018, 20, 873-878.	1.3	7
126	A Molecular Pillar Approach To Grow Vertical Covalent Organic Framework Nanosheets on Graphene: Hybrid Materials for Energy Storage. Angewandte Chemie, 2018, 130, 1046-1050.	1.6	40
127	Increasing the breakdown strength of dielectric actuators by using Cu/Cu_xO/silicone dielectric elastomers. Journal of Materials Chemistry C, 2018, 6, 12175-12179.	2.7	19
128	Multifunctional 3D K2Ti6O13 nanobelt-built architectures towards wastewater remediation: selective adsorption, photodegradation, mechanism insight and photoelectrochemical investigation. Catalysis Science and Technology, 2018, 8, 6180-6195.	2.1	44
129	Nanoporous Carbon Synthesis: An Old Story with Exciting New Chapters. , 0, , .		16
130	Heterogeneous Molten Salt Design Strategy toward Coupling Cobaltâ€“Cobalt Oxide and Carbon for Efficient Energy Conversion and Storage. Advanced Energy Materials, 2018, 8, 1800762.	10.2	51
131	Microplasma Anode Meeting Molten Salt Electrochemistry: Charge Transfer and Atomic Emission Spectral Analysis. Analytical Chemistry, 2018, 90, 13163-13166.	3.2	6

#	Article	IF	Citations
132	Molten-Salt Synthesis of Complex Metal Oxide Nanoparticles. Journal of Visualized Experiments, 2018, , .	0.2	6
133	Quasi-Equilibrium, Multifoil Platelets of Copper- and Titanium-Substituted Bismuth Vanadate, Bi2V0.9(Cu0.1â^'xTix)O5.5â^'Î´, by Molten Salt Synthesis. Crystals, 2018, 8, 170.	1.0	2
134	Facile Self-templating Melting Route Preparation of Biomass-derived Hierarchical Porous Carbon for Advanced Supercapacitors. Chemical Research in Chinese Universities, 2018, 34, 983-988.	1.3	15
135	Facile synthesis of monolithic hierarchical porous carbon materials via molten salt method. Monatshefte FÃ¼r Chemie, 2018, 149, 2137-2144.	0.9	2
136	Yb2O3 Doped Zr0.92Y0.08O2-Î±(8YSZ) and Its Composite Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells. Materials, 2018, 11, 1824.	1.3	8
137	Powder-to-film approach for fabricating critical raw material-free kesterite Cu2ZnSn(S,Se)4 thin film photovoltaic: A review. Solar Energy, 2018, 176, 157-169.	2.9	10
138	Molten salt synthesis of hexagonal tungsten trioxide nanoparticles for lithium-ion battery anode. Materials Letters, 2018, 233, 199-202.	1.3	10
139	Preparation of TiC/Ti₂AlC coating on carbon fiber and investigation of the oxidation resistance properties. Journal of the American Ceramic Society, 2018, 101, 5269-5280.	1.9	23
140	Ionothermal Synthesis of Triazineâ€"Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€• Angewandte Chemie - International Edition, 2018, 57, 9372-9376.	7.2	369
141	High-capacitance Ti₃C₂T_xMXene obtained by etching submicron Ti₃AlC₂grains grown in molten salt. Chemical Communications, 2018, 54, 8132-8135.	2.2	34
142	Recent advances in the research of MLi2Ti6O14 (Mâ€¯=â€¯2Na, Sr, Ba, Pb) anode materials for Li-ion batteries. Journal of Power Sources, 2018, 399, 26-41.	4.0	125
143	High oxygen reduction reaction performance nitrogen-doped biochar cathode: A strategy for comprehensive utilizing nitrogen and carbon in water hyacinth. Bioresource Technology, 2018, 267, 524-531.	4.8	82
144	Operando X-ray spectroscopic tracking of self-reconstruction for anchored nanoparticles as high-performance electrocatalysts towards oxygen evolution. Energy and Environmental Science, 2018, 11, 2945-2953.	15.6	157
145	Efficient photocatalytic hydrogen evolution on N-deficient g-C3N4 achieved by a molten salt post-treatment approach. Applied Catalysis B: Environmental, 2018, 238, 465-470.	10.8	207
146	Facile Fabrication of Nickel/Heazlewoodite@Carbon Nanosheets and their Superior Catalytic Performance of 4â€Nitrophenol Reduction. ChemCatChem, 2018, 10, 4143-4153.	1.8	21
147	Fabrication of Fluorapatite Nanocrystal-Activated Carbon Composite by the Atmospheric Pressure Plasma-Assisted Flux Method. Crystal Growth and Design, 2018, 18, 5763-5769.	1.4	6
148	Colloidal Chemistry in Molten Salts: Synthesis of Luminescent In_{1â€“x}Ga_xP and In_{1â€“x}Ga_xAs Quantum Dots. Journal of the American Chemical Society, 2018, 140, 12144-12151.	6.6	60
149	Ionothermal Synthesis of Triazineâ€"Heptazineâ€Based Copolymers with Apparent Quantum Yields of 60â€‰% at 420â€…nm for Solar Hydrogen Production from â€œSea Waterâ€• Angewandte Chemie, 2018, 130, 9516-9520.	1.6	73

#	Article	IF	Citations
150	Ordered Mesoporous Carbons Loading on Graphene after Different Molten Salt Activations for Supercapacitor Applications. Energy Technology, 2018, 6, 2273-2281.	1.8	13
151	Regulation of the Ba/Sr Ratio of (Ba,Sr)TiO₃ and Nanorod Buildâ€Up through a Topochemical Synthesis Method Using BaTi₂O₅ as the Template. European Journal of Inorganic Chemistry, 2018, 2018, 3088-3094.	1.0	7
152	Metalâ€Rich Ternary Perovskite Nitrides. European Journal of Inorganic Chemistry, 2019, 2019, 3647-3660.	1.0	23
153	Transition metal silicides: fundamentals, preparation and catalytic applications. Catalysis Science and Technology, 2019, 9, 4785-4820.	2.1	70
154	Fast, Facile and Solventâ€Free Dryâ€Melt Synthesis of Oxovanadium(IV) Complexes: Simple Design with High Potency towards Cancerous Cells. Chemistry - A European Journal, 2019, 25, 12275-12280.	1.7	4
155	Tunable dielectric properties of niobium (Nb) doped CaCu3Ti4O12 nanocubes synthesized via facile molten salt route. SN Applied Sciences, 2019, 1, 1.	1.5	2
156	Structure, morphology, and magnetic properties of NiFe2O4 powder prepared by molten salt method. Powder Technology, 2019, 355, 708-715.	2.1	17
157	Synthesis and Electrochemical Properties of Intermediate Temperature SrCe0.6Zr0.3Er0.1O3-Î±-molten Carbonate Composite Electrolyte. International Journal of Electrochemical Science, 2019, 14, 3229-3235.	0.5	2
158	Hierarchical K2Mn4O8 nanoflowers: A novel photothermal conversion material for efficient solar vapor generation. Solar Energy Materials and Solar Cells, 2019, 200, 110043.	3.0	18
159	Molten salt synthesis of nano structured pyrochlore lanthanum zirconate: a potential material for high temperature applications. Materials Research Express, 2019, 6, 104001.	0.8	3
160	A Bi-functional Cobalt and Nitrogen Co-doped Carbon Catalyst for Aerobic Oxidative Esterification of Benzyl Alcohol with Methanol and Oxygen Reduction Reaction. Catalysis Letters, 2019, 149, 3160-3168.	1.4	5
161	A Green Electrochemical Process to Recover Co and Li from Spent LiCoO₂-Based Batteries in Molten Salts. ACS Sustainable Chemistry and Engineering, 2019, 7, 13391-13399.	3.2	93
162	Continuous Production of Waterâ€Soluble Nanocrystals through Antiâ€Solvent Precipitation in a Fluidic Device. ChemNanoMat, 2019, 5, 1131-1136.	1.5	3
163	Cubic and orthorhombic Cd₂SnO₄ microcrystals: molten salt synthesis, phase evolution and dye degradation studies. Materials Research Express, 2019, 6, 105537.	0.8	11
164	Biomass derived metal carbide catalysts formed using a salt flux synthesis. Materials Research Express, 2019, 6, 115519.	0.8	3
165	From Highly Purified Boron Nitride to Boron Nitrideâ€Based Heterostructures: An Inorganic Precursorâ€Based Strategy. Advanced Functional Materials, 2019, 29, 1906284.	7.8	22
166	Highly Selective CO2 Capture and Its Direct Photochemical Conversion on Ordered 2D/1D Heterojunctions. Joule, 2019, 3, 2792-2805.	11.7	189
167	Railway route selection based on entropy weight method-gray correlation improvement TOPSIS. IOP Conference Series: Earth and Environmental Science, 2019, 304, 032112.	0.2	4

#	Article	IF	Citations
168	Prolonged oral vancomycin for secondary prophylaxis of relapsing Clostridium difficile infection. BMC Infectious Diseases, 2019, 19, 51.	1.3	16
169	Synthesis of Magnetic Bimetallic Hydroxide Nanosheets for the Cleanâ€Up of Oily Wastewater. Advanced Materials Interfaces, 2019, 6, 1900773.	1.9	1
170	High-Concentration Niobium-Substituted WS2 Basal Domains with Reconfigured Electronic Band Structure for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 34862-34868.	4.0	21
171	Salt-assisted chemical vapor deposition of two-dimensional materials. Science China Chemistry, 2019, 62, 1300-1311.	4.2	66
172	Preparation, Characterization and Intermediate-Temperature Electrochemical Properties of Er3+-Doped Barium Cerateâ€“Sulphate Composite Electrolyte. Materials, 2019, 12, 2752.	1.3	5
173	One-Pot Ionothermal Synthesized Carbon Nitride Heterojunction Nanorods for Simultaneous Photocatalytic Reduction and Oxidation Reactions: Synergistic Effect and Mechanism Insight. ACS Sustainable Chemistry and Engineering, 2019, 7, 5122-5133.	3.2	53
174	Eutectic melt crystallization of L1₀-FePt. Chemical Communications, 2019, 55, 656-658.	2.2	4
175	Mass Production of Highâ€Quality Transition Metal Dichalcogenides Nanosheets via a Molten Salt Method. Advanced Functional Materials, 2019, 29, 1900649.	7.8	59
176	Anisotropic growth of La2NiO4+: Influential pre-treatment in molten-flux synthesis. Journal of Crystal Growth, 2019, 523, 125135.	0.7	4
177	A class of metal diboride electrocatalysts synthesized by a molten salt-assisted reaction for the hydrogen evolution reaction. Chemical Communications, 2019, 55, 8627-8630.	2.2	57
178	Properties of Negatively Charged Ruthenium Clusters in Molten Sodium Chloride. Journal of Physical Chemistry C, 2019, 123, 16179-16185.	1.5	5
179	A review of synthesis and morphology of <scp>SrTiO</scp> ₃ for energy and other applications. International Journal of Energy Research, 2019, 43, 5151-5174.	2.2	91
180	Morphology control and characteristic parameter R of molten-salt-synthesized K2Ti6O13 whiskers. Journal of Materials Science, 2019, 54, 10620-10631.	1.7	5
181	Synthesis of Ti3SiC2 MAX phase powder by a molten salt shielded synthesis (MS3) method in air. Journal of the European Ceramic Society, 2019, 39, 3651-3659.	2.8	46
182	Pt-rare earth metal alloy/metal oxide catalysts for oxygen reduction and alcohol oxidation reactions: an overview. Sustainable Energy and Fuels, 2019, 3, 1866-1891.	2.5	82
183	Effect of salt type on the particle size of LaMn1-xFexO3 (0.1â‰¤xâ‰¤0.5) synthesized in molten chlorides. Materials Chemistry and Physics, 2019, 231, 181-187.	2.0	4
184	The modification of surface, size and shape of barium zirconate powder via salt flux. Journal of the American Ceramic Society, 2019, 102, 5772-5785.	1.9	3
185	Active-Transition-Metal Tellurides: Through Crystal Structures to Physical Properties. Crystal Growth and Design, 2019, 19, 5429-5440.	1.4	3

#	Article	IF	Citations
186	Preparation of Carbon Nanosheet by Molten Salt Route and Its Application in Catalyzing VO²⁺/VO₂⁺ Redox Reaction. Journal of the Electrochemical Society, 2019, 166, A953-A959.	1.3	30
187	Low temperature synthesis and photoluminescence properties of Mn4+-doped La2MgTiO6 deep-red phosphor with a LiCl flux. Journal of Luminescence, 2019, 211, 114-120.	1.5	19
188	Yb-Doped BaCeO3 and Its Composite Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells. Materials, 2019, 12, 739.	1.3	8
189	Nanocrystals in Molten Salts and Ionic Liquids: Experimental Observation of Ionic Correlations Extending beyond the Debye Length. ACS Nano, 2019, 13, 5760-5770.	7.3	48
190	Molten-salt strategy for fabrication of hierarchical porous N-doped carbon nanosheets towards high-performance supercapacitors. Materials Chemistry and Physics, 2019, 230, 178-186.	2.0	25
191	Î±-MnO2 nanorod/onion-like carbon composite cathode material for aqueous zinc-ion battery. Materials Chemistry and Physics, 2019, 230, 258-266.	2.0	67
192	Molten salt shielded synthesis of oxidation prone materials in air. Nature Materials, 2019, 18, 465-470.	13.3	134
193	Triazine based polyimide framework derived N-doped porous carbons: a study of their capacitive behaviour in aqueous acidic electrolyte. Materials Chemistry Frontiers, 2019, 3, 680-689.	3.2	29
194	Covalent organic frameworks derived hollow structured N-doped noble carbon for asymmetric-electrolyte Zn-air battery. Science China Chemistry, 2019, 62, 385-392.	4.2	29
195	BaCe0.9Er0.1O3-Î±-NaCl-KCl Composite As Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells. International Journal of Electrochemical Science, 2019, , 755-763.	0.5	3
196	Intermediate temperature electrochemical properties of lutetium-doped SrCeO3/SrZrO3-molten carbonate composite electrolyte. Ceramics International, 2019, 45, 10149-10153.	2.3	6
197	Molten salt synthesis of highly ordered and nanostructured hexagonal boron nitride. Diamond and Related Materials, 2019, 93, 179-186.	1.8	12
198	Heterostructure of 1D Ta₃N₅ Nanorod/BaTaO₂N Nanoparticle Fabricated by a Oneâ€Step Ammonia Thermal Route for Remarkably Promoted Solar Hydrogen Production. Advanced Materials, 2019, 31, e1808185.	11.1	115
199	Crystal Growth in Mesoporous TiO₂ Optical Thin Films. Journal of Physical Chemistry C, 2019, 123, 6070-6079.	1.5	7
200	Controlling the microstructure of resorcinolâ€“furfural aerogels and derived carbon aerogels via the salt templating approach. RSC Advances, 2019, 9, 5967-5977.	1.7	28
201	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	2.2	16
202	Flux Crystal Growth of Lanthanide Tungsten Oxychlorides, La_{8.64}W₆O_{30.45}Cl, Ce_{8.64}W_{5.74}O₃₀Cl, and Ln_{8.33}W₆O₃₀Cl (Ln = Pr, Nd): Structural Stability in the Presence of Extreme Cation and Anion Disorder. Inorganic Chemistry, 2019, 58, 16831-16837.	1.9	4
203	Molecularâ€Based Design of Microporous Carbon Nanosheets. Chemistry - A European Journal, 2019, 25, 3209-3218.	1.7	23

#	Article	IF	Citations
204	2D Fe-containing cobalt phosphide/cobalt oxide lateral heterostructure with enhanced activity for oxygen evolution reaction. Nano Energy, 2019, 56, 109-117.	8.2	223
205	Rationally Designed Copperâ€Modified Polymeric Carbon Nitride as a Photocathode for Solar Water Splitting. ChemSusChem, 2019, 12, 866-872.	3.6	26
206	Molten salt synthesis of hierarchical porous N-doped carbon submicrospheres for multifunctional applications: High performance supercapacitor, dye removal and CO2 capture. Carbon, 2019, 141, 739-747.	5.4	91
207	Molten salt-assisted synthesis of bulk CoOOH as a water oxidation catalyst. Journal of Energy Chemistry, 2020, 42, 5-10.	7.1	38
208	Effects of molten-salt processing parameters on the structural and optical properties of preformed La2Zr2O7:Eu3+ nanoparticles. Ceramics International, 2020, 46, 1352-1361.	2.3	16
209	Synthesis and characterization of nanosized Ti3AlC2 ceramic powder by elemental powders of Ti, Al and C in molten salt. Journal of Materials Science and Technology, 2020, 37, 77-84.	5.6	20
210	One-step synthesis of novel K+ and cyano groups decorated triazine-/heptazine-based g-C3N4 tubular homojunctions for boosting photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2020, 262, 118252.	10.8	172
211	Lowâ€temperature molten salt synthesis of highâ€entropy carbide nanopowders. Journal of the American Ceramic Society, 2020, 103, 2244-2251.	1.9	50
212	Thermophilic anaerobic digestion of cattail and hydrothermal carbonization of the digestate for co-production of biomethane and hydrochar. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 230-238.	0.9	8
213	Recent progress in dielectric nanocomposites. Materials Science and Technology, 2020, 36, 1-16.	0.8	32
214	Fluxâ€mediated synthesis and photocatalytic activity of NaNbO₃ particles. Journal of the American Ceramic Society, 2020, 103, 454-464.	1.9	16
215	Molten salt assisted assembly growth of atomically thin boron carbon nitride nanosheets for photocatalytic H₂ evolution. Chemical Communications, 2020, 56, 2558-2561.	2.2	40
216	Electrocatalytic reduction of N₂ and nitrogen-incorporation process on dopant-free defect graphene. Journal of Materials Chemistry A, 2020, 8, 55-61.	5.2	27
217	A mutually isolated nanodiamond/porous carbon nitride nanosheet hybrid with enriched active sites for promoted catalysis in styrene production. Catalysis Science and Technology, 2020, 10, 1048-1055.	2.1	7
218	Nanoscale boron carbonitride semiconductors for photoredox catalysis. Nanoscale, 2020, 12, 3593-3604.	2.8	27
219	Novel Composite Electrolyte of Double-Doped Ceria-Sulphate for Medium Temperature Fuel Cells. International Journal of Electrochemical Science, 2020, 15, 304-310.	0.5	6
220	K+-induced crystallization of polymeric carbon nitride to boost its photocatalytic activity for H2 evolution and hydrogenation of alkenes. Applied Catalysis B: Environmental, 2020, 268, 118457.	10.8	67
221	Lowâ€temperature synthesis of tungsten diboride powders via a simple molten salt route. International Journal of Applied Ceramic Technology, 2020, 17, 1177-1182.	1.1	18

#	Article	IF	Citations
222	Facile one-step synthesis of nitrogen-doped carbon sheets supported tungsten carbide nanoparticles electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 33430-33439.	3.8	14
223	Highly Conductive Garnet-Type Electrolytes: Access to Li_{6.5}La₃Zr_{1.5}Ta_{0.5}O₁₂ Prepared by Molten Salt and Solid-State Methods. ACS Applied Materials & Interfaces, 2020, 12, 48580-48590.	4.0	24
224	Molten Salt Treated Cu Foam Catalyst for Selective Electrochemical CO 2 Reduction Reaction. ChemistrySelect, 2020, 5, 11927-11933.	0.7	6
225	Experimental Descriptors for the Synthesis of Multicationic Nickel Perovskite Nanoparticles for Oxygen Reduction. ACS Applied Nano Materials, 2020, 3, 7482-7489.	2.4	9
226	Molten Salt Synthesis of Atomic Heterogeneous Catalysts: Old Chemistry for Advanced Materials. European Journal of Inorganic Chemistry, 2020, 2020, 2942-2949.	1.0	26
227	Roadmap for densification in cold sintering: Chemical pathways. Open Ceramics, 2020, 2, 100019.	1.0	37
228	Microsized Red Luminescent MgAl₂O₄:Mn⁴⁺ Single-Crystal Phosphor Grown in Molten Salt for White LEDs. Inorganic Chemistry, 2020, 59, 18374-18383.	1.9	19
229	One-Step Low-Temperature Molten Salt Synthesis of Two-Dimensional Si@SiO_x@C Hybrids for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 55844-55855.	4.0	36
230	C₂N: A Class of Covalent Frameworks with Unique Properties. Advanced Science, 2020, 7, 2001767.	5.6	52
231	Colloidal properties of the metal-free semiconductor graphitic carbon nitride. Advances in Colloid and Interface Science, 2020, 283, 102229.	7.0	37
232	Regulating surface state of WO3 nanosheets by gamma irradiation for suppressing hydrogen evolution reaction in electrochemical N2 fixation. Nano Research, 2020, 13, 2784-2790.	5.8	23
233	Pyrochlore nanocrystals as versatile quasi-single-source precursors to lithium conducting garnets. Journal of Materials Chemistry A, 2020, 8, 17405-17410.	5.2	12
234	Controlling pore size and pore functionality in sp²-conjugated microporous materials by precursor chemistry and salt templating. Journal of Materials Chemistry A, 2020, 8, 21680-21689.	5.2	13
235	Graphitic carbon nitride nanotubes: a new material for emerging applications. RSC Advances, 2020, 10, 34059-34087.	1.7	35
236	Pyro processing cement kiln bypass dust: Enhancing clinker phase formation. Construction and Building Materials, 2020, 259, 120420.	3.2	11
237	A composite-hydroxide-activation strategy for the preparation of N/S dual-doped porous carbon materials as advanced supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2020, 31, 22498-22511.	1.1	12
238	CaCl₂-Activated Carbon Nitride: Hierarchically Nanoporous Carbons with Ultrahigh Nitrogen Content for Selective CO₂ Adsorption. ACS Applied Nano Materials, 2020, 3, 5965-5977.	2.4	19
239	Synthesis of W2B5 powders by the reaction between WO3 and amorphous B in NaCl/KCl flux. Ceramics International, 2020, 46, 14469-14473.	2.3	10

#	Article	IF	Citations
240	A construction strategy of ferroelectrics by the molten salt method and its application in the energy field. Journal of Materials Chemistry C, 2020, 8, 8704-8731.	2.7	30
241	Combustion synthesis of hexagonal boron nitride nanoplates with high aspect ratio. Ceramics International, 2020, 46, 20717-20723.	2.3	9
242	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 11075-11116.	5.2	142
243	Roles of salts in the chemical vapor deposition synthesis of two-dimensional transition metal chalcogenides. Dalton Transactions, 2020, 49, 10319-10327.	1.6	29
244	Lithium incorporation assisted synthesis of ultra-small Mo2C nanodots as efficient photocatalytic H2 evolution cocatalysts. Chemical Engineering Journal, 2020, 399, 125794.	6.6	33
245	Direct Recycling of Spent NCM Cathodes through Ionothermal Lithiation. Advanced Energy Materials, 2020, 10, 2001204.	10.2	129
246	Glassy Flux Protocol to Confine Lead-Free CsSnX₃ Nanocrystals into Transparent Solid Medium. Journal of Physical Chemistry Letters, 2020, 11, 6084-6089.	2.1	10
247	Metal-free amino acid glycine-derived nitrogen-doped carbon aerogel with superhigh surface area for highly efficient Zn-Air batteries. Carbon, 2020, 167, 75-84.	5.4	43
248	Salt-template assisted synthesis of cornstalk derived hierarchical porous carbon with excellent supercapacitance. Industrial Crops and Products, 2020, 154, 112666.	2.5	23
249	The formation mechanism of nanocrystalline TiC from KClâ€“LiCl molten salt medium. Ceramics International, 2020, 46, 18725-18733.	2.3	15
250	Reduction in Formation Temperature of Ta-Doped Lithium Lanthanum Zirconate by Application of Luxâ€“Flood Basic Molten Salt Synthesis. ACS Applied Energy Materials, 2020, 3, 6466-6475.	2.5	20
251	High Sulfur-Doped Hard Carbon with Advanced Potassium Storage Capacity via a Molten Salt Method. ACS Applied Materials & Interfaces, 2020, 12, 30431-30437.	4.0	58
252	Fabrication of highâ€purity HfSi 2 powder via molten saltâ€assisted magnesium thermal reduction. International Journal of Applied Ceramic Technology, 2020, 17, 1785-1789.	1.1	2
253	Heavy oil-derived carbon for energy storage applications. Journal of Materials Chemistry A, 2020, 8, 7066-7082.	5.2	57
254	Saltâ€Assisted Synthesis of 2D Materials. Advanced Functional Materials, 2020, 30, 1908486.	7.8	115
255	â€œSoftâ€•Alkali Bromide and Iodide Fluxes for Crystal Growth. Frontiers in Chemistry, 2020, 8, 518.	1.8	25
256	Phase selective synthesis of nickel silicide nanocrystals in molten salts for electrocatalysis of the oxygen evolution reaction. Nanoscale, 2020, 12, 15209-15213.	2.8	22
257	Covalent surface modifications and superconductivity of two-dimensional metal carbide MXenes. Science, 2020, 369, 979-983.	6.0	870

#	Article	IF	Citations
258	A modified chalcogenide flux method for confining metal halide nanocrystals into transparent glassy matrix. Journal of the European Ceramic Society, 2020, 40, 6037-6042.	2.8	6
259	Effect of NaOH on the preparation of two-dimensional flake-like zirconia nanostructures. Chemical Physics Letters, 2020, 754, 137755.	1.2	9
260	High-temperature heterogeneous catalysis in platinum nanoparticle â€“ molten salt suspensions. Catalysis Science and Technology, 2020, 10, 625-629.	2.1	5
261	Moltenâ€Saltâ€Mediated Synthesis of an Atomic Nickel Coâ€catalyst on TiO₂ for Improved Photocatalytic H₂ Evolution. Angewandte Chemie - International Edition, 2020, 59, 7230-7234.	7.2	221
262	Moltenâ€Saltâ€Mediated Synthesis of an Atomic Nickel Coâ€catalyst on TiO₂ for Improved Photocatalytic H₂ Evolution. Angewandte Chemie, 2020, 132, 7297-7301.	1.6	55
263	Porous Carbons: Structureâ€Oriented Design and Versatile Applications. Advanced Functional Materials, 2020, 30, 1909265.	7.8	316
264	Highly efficient oxygen electrode catalyst derived from chitosan biomass by molten salt pyrolysis for zinc-air battery. Electrochimica Acta, 2020, 339, 135923.	2.6	15
265	Synthesis Strategies of Porous Carbon for Supercapacitor Applications. Small Methods, 2020, 4, 1900853.	4.6	403
266	Photocatalytic degradation of organic dyes on Li-doped graphitic carbon nitrides. Journal of Materials Science: Materials in Electronics, 2020, 31, 3869-3875.	1.1	10
267	Eutectic crystallized FePd nanoparticles for liquid metal magnet. Chemical Communications, 2020, 56, 6555-6558.	2.2	11
268	Molten salt assisted pyrolysis approach for the synthesis of nitrogen-rich microporous carbon nanosheets and its application as gas capture sorbent. Microporous and Mesoporous Materials, 2020, 300, 110177.	2.2	12
269	Synthesis of NiO Crystals Exposing Stable Highâ€Index Facets. Angewandte Chemie, 2020, 132, 15231-15235.	1.6	5
270	Facile and cost-effective manipulation of hierarchical carbon nanosheets for pseudocapacitive lithium/potassium storage. Carbon, 2020, 165, 296-305.	5.4	29
271	Synthesis of NiO Crystals Exposing Stable Highâ€Index Facets. Angewandte Chemie - International Edition, 2020, 59, 15119-15123.	7.2	22
272	Low-Temperature Molten Salt Synthesis for Ligand-Free Transition Metal Oxide Nanoparticles. ACS Applied Energy Materials, 2020, 3, 3984-3990.	2.5	6
273	Low-temperature molten salt synthesis and luminescence properties of Eu(III)-based coordination polymer nanosheets. Rare Metals, 2021, 40, 728-735.	3.6	5
274	Molten salt as ultrastrong polar solvent enables the most straightforward pyrolysis towards highly efficient and stable single-atom electrocatalyst. Journal of Energy Chemistry, 2021, 54, 519-527.	7.1	11
275	Elucidation of YBCO Growth Mechanism in KOH Flux Method. Journal of Superconductivity and Novel Magnetism, 2021, 34, 107-116.	0.8	0

#	Article	IF	Citations
276	Highly orientated Bi4Ti3O12 piezoceramics prepared by pressureless sintering. Journal of the European Ceramic Society, 2021, 41, 1244-1250.	2.8	20
277	Molten salt synthesis of CoFe2O4 and its energy storage properties. Materials Chemistry and Physics, 2021, 257, 123747.	2.0	12
278	A review on molten salt synthesis of metal oxide nanomaterials: Status, opportunity, and challenge. Progress in Materials Science, 2021, 117, 100734.	16.0	153
279	Optimized synthesis of nitrogen-doped carbon with extremely high surface area for adsorption and supercapacitor. Applied Surface Science, 2021, 538, 147961.	3.1	32
280	Salt melt synthesis of Chlorella-derived nitrogen-doped porous carbon with atomically dispersed CoN4 sites for efficient oxygen reduction reaction. Journal of Colloid and Interface Science, 2021, 586, 498-504.	5.0	29
281	Towards a Greener and Scalable Synthesis of Na₂Ti₆O₁₃ Nanorods and Their Application as Anodes in Batteries for Gridâ€Level Energy Storage. Energy Technology, 2021, 9, 2000856.	1.8	4
282	Growth of LaCoO₃ crystals in molten salt: effects of synthesis conditions. CrystEngComm, 2021, 23, 671-677.	1.3	5
283	Direct transformation of raw biomass into a Feâ€“N_xâ€“C single-atom catalyst for efficient oxygen reduction reaction. Materials Chemistry Frontiers, 2021, 5, 3093-3098.	3.2	11
284	Remarkable Activity of Potassium-Modified Carbon Nitride for Heterogeneous Photocatalytic Decarboxylative Alkyl/Acyl Radical Addition and Reductive Dimerization of para-Quinone Methides. ACS Sustainable Chemistry and Engineering, 2021, 9, 2367-2377.	3.2	38
285	Moltenâ€Salt Technology Application for the Synthesis of Photocatalytic Materials. Energy Technology, 2021, 9, 2000945.	1.8	9
286	Highly crystalline Na_{0.5}Bi_{0.5}TiO₃ of a photocatalyst valence-band-controlled with Bi(<scp>iii</scp>) for solar water splitting. Chemical Communications, 2021, 57, 323-326.	2.2	8
287	Molten Salt Synthesis of Nanolaminated Sc₂SnC MAX Phase. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 773.	0.6	15
288	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. Physical Chemistry Chemical Physics, 2021, 23, 20745-20764.	1.3	5
289	Study of the synthetic process of CaBi2Ta2O9 powder by the moltenâ€salt method. Journal of Materials Research, 2021, 36, 1058-1066.	1.2	2
290	Low-Temperature Molten Salts Synthesis: CsPbBr₃ Nanocrystals with High Photoluminescence Emission Buried in Mesoporous SiO₂. ACS Energy Letters, 2021, 6, 900-907.	8.8	68
292	Synergies of Fe Single Atoms and Clusters on Nâ€Doped Carbon Electrocatalyst for pHâ€Universal Oxygen Reduction. Small Methods, 2021, 5, e2001165.	4.6	90
293	Recent Developments on Molten Salt Synthesis of Inorganic Nanomaterials: A Review. Journal of Physical Chemistry C, 2021, 125, 6508-6533.	1.5	83
294	Characterizations and photocatalytic activity of ceria nanoparticles synthesized in KClâ€“LiCl/KOHâ€“NaOH molten flux from different precursors. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	3

#	Article	IF	Citations
295	Observation of Elemental Inhomogeneity and Its Impact on Ionic Conductivity in Liâ€Conducting Garnets Prepared with Different Synthesis Methods. Advanced Energy and Sustainability Research, 2021, 2, 2000109.	2.8	11
296	Carbon-coated BiOBr composite prepared by molten salt method and mechanical ball milling as anode material for lithium-ion batteries. Inorganic Chemistry Communication, 2021, 125, 108415.	1.8	5
297	High-Index (Ni,Mg)O Crystallization during Molten Salt Synthesis. Chemistry of Materials, 2021, 33, 3155-3163.	3.2	7
298	Molten metal chloride salt template synthesis of N/S co-doped porous carbon nanosheets for supercapacitors. Diamond and Related Materials, 2021, 113, 108278.	1.8	31
299	Synthesis of monophase twoâ€dimensional Î±â€Si 3 N 4 nanoplatelets via an ionothermal route. International Journal of Applied Ceramic Technology, 2021, 18, 1183-1191.	1.1	1
300	Recent Development in Defects Engineered Photocatalysts: An Overview of the Experimental and Theoretical Strategies. Energy and Environmental Materials, 2022, 5, 68-114.	7.3	81
301	In-Situ Preparation of High-Performance CNS/Cu Composites with Molten Salt Route. Nano, 2021, 16, 2150056.	0.5	0
302	A Facile, One-Step Synthesis for Coreâ€“Shell Perovskite Materials via Molten Salt. Crystal Growth and Design, 2021, 21, 2581-2588.	1.4	1
303	Tuned single atom coordination structures mediated by polarization force and sulfur anions for photovoltaics. Nano Research, 2021, 14, 4025-4032.	5.8	14
304	Self-Driven Salt-Thermal Reduction Approach for the Synthesis of Cu₂O and AgClâ€“Cu₂O Hybrids with Superior Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2021, 9, 5651-5660.	3.2	7
305	Dynamics of the Chemically Driven Densification of Barium Titanate Using Molten Hydroxides. Nano Letters, 2021, 21, 3451-3457.	4.5	14
306	Heterogeneous photocatalytic cyanomethylarylation of alkenes with acetonitrile: synthesis of diverse nitrogenous heterocyclic compounds. Beilstein Journal of Organic Chemistry, 2021, 17, 1171-1180.	1.3	8
307	Preparation of Zr₃Al₃C₅ ceramic powder by molten salt synthesis. International Journal of Applied Ceramic Technology, 2021, 18, 1979-1987.	1.1	2
308	Molten salt in-situ exfoliation of graphite to graphene nanoplatelets applied for energy storage. Carbon, 2021, 176, 168-177.	5.4	14
309	An Insight from the CALPHAD Approach: How to Control the LaMnO3 Perovskite Formation Via the Molten Salt Synthesis. Journal of Phase Equilibria and Diffusion, 2021, 42, 419-427.	0.5	1
310	Caffeine-Derived Noble Carbons as Ball Milling-Resistant Cathode Materials for Lithium-Ion Capacitors. ACS Applied Materials & Interfaces, 2021, 13, 29612-29618.	4.0	3
311	Internal insulation and corrosion control of molten chloride thermal energy storage tanks. Solar Energy Materials and Solar Cells, 2021, 225, 111048.	3.0	5
312	Nanostructure Engineering and Modulation of (Oxy)Nitrides for Application in Visibleâ€Lightâ€Driven Water Splitting. Advanced Materials, 2021, 33, e2004697.	11.1	55

#	Article	IF	Citations
313	Multiphase calcium phosphate nanorods produced by microwave-assisted molten salt synthesis: Particle size RSM optimization. Ceramics International, 2021, 47, 17202-17209.	2.3	5
314	Highly Polymerized Wine-Red Carbon Nitride to Enhance Photoelectrochemical Water Splitting Performance of Hematite. Journal of Physical Chemistry C, 2021, 125, 13273-13282.	1.5	15
315	Mechanistic analysis of multiple processes controlling solar-driven H2O2 synthesis using engineered polymeric carbon nitride. Nature Communications, 2021, 12, 3701.	5.8	175
316	Molten salt strategies towards carbon materials for energy storage and conversion. Energy Storage Materials, 2021, 38, 50-69.	9.5	90
317	Moltenâ€Saltâ€Assisted Annealing for Making Colloidal ZnGa₂O₄:Cr Nanocrystals with High Persistent Luminescence. Chemistry - A European Journal, 2021, 27, 11398-11405.	1.7	19
318	Advanced Inorganic Nitride Nanomaterials for Renewable Energy: A Mini Review of Synthesis Methods. Frontiers in Chemistry, 2021, 9, 638216.	1.8	10
319	Few-Layered Boron Nitride Nanosheets for Strengthening Polyurethane Hydrogels. ACS Applied Nano Materials, 2021, 4, 7988-7994.	2.4	10
320	Electrochemical Lithium Storage Performance of Molten Salt Derived V2SnC MAX Phase. Nano-Micro Letters, 2021, 13, 158.	14.4	23
321	General, metalâ€free synthesis of carbon nanofiber assemblies from plant oils. Angewandte Chemie, 0, , .	1.6	2
322	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. Materials Research Bulletin, 2021, 140, 111315.	2.7	35
323	Accelerated Antiâ€Markovnikov Alkene Hydrosilylation with Humicâ€Acidâ€Supported Electron Deficient Platinum Single Atoms. Angewandte Chemie, 2021, 133, 24422.	1.6	5
324	Microstructure and ion conductivity of Alâ€LLZO solid electrolyte prepared by molten salt and cold sintering process. International Journal of Applied Ceramic Technology, 2022, 19, 320-331.	1.1	9
325	Phase evolution and chemical stability of Ndâ€doped Y₃Fe₅O₁₂ waste forms synthesized in molten salt at a low temperature. Journal of the American Ceramic Society, 2022, 105, 1459-1471.	1.9	5
326	General, Metalâ€free Synthesis of Carbon Nanofiber Assemblies from Plant Oils. Angewandte Chemie - International Edition, 2021, 60, 24257-24265.	7.2	15
327	An Ordered Alite Cement Clinker Phase (Ca3SiO5, aP162) from Flux Synthesis. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 2105.	0.6	1
328	Molten salt-assisted shape modification of CaFe2O4 nanorods for highly efficient photocatalytic degradation of methylene blue. Optical Materials, 2021, 119, 111295.	1.7	16
329	Accelerated Antiâ€Markovnikov Alkene Hydrosilylation with Humicâ€Acidâ€Supported Electronâ€Deficient Platinum Single Atoms. Angewandte Chemie - International Edition, 2021, 60, 24220-24226.	7.2	28
330	Metal-substituted zirconium diboride (Zr1-TMB2; TMÂ=ÂNi, Co, and Fe) as low-cost and high-performance bifunctional electrocatalyst for water splitting. Electrochimica Acta, 2021, 389, 138789.	2.6	22

#	Article	IF	Citations
331	Molten-salt synthesis of luminescent zirconia nanocrystals. Ceramics International, 2022, 48, 1423-1428.	2.3	3
332	AlF3-assisted flux growth of mullite whiskers and their application in fabrication of porous mullite-alumina monoliths. Open Ceramics, 2021, 7, 100145.	1.0	6
333	Integration of Morphology and Electronic Structure Modulation on Atomic Ironâ€Nitrogenâ€Carbon Catalysts for Highly Efficient Oxygen Reduction. Advanced Functional Materials, 2022, 32, 2108345.	7.8	61
334	Eutectic iodide-based salt as a melem-to-PTI conversion stopping agent for all-in-one graphitic carbon nitride. Applied Catalysis B: Environmental, 2021, 294, 120222.	10.8	13
335	A novel process for manufacturing copper with size-controlled in-situ tungsten nanoparticles by casting. Journal of Materials Processing Technology, 2021, 296, 117187.	3.1	11
336	Carbonaceous Materials: The Beauty of Simplicity. Bulletin of the Chemical Society of Japan, 2021, 94, 2822-2828.	2.0	24
337	Confined synthesis of 2D ultrathin ZnO/Co3O4 nanomeshes heterostructure for superior triethylamine detection at low temperature. Sensors and Actuators B: Chemical, 2021, 346, 130486.	4.0	55
338	Ultrahigh water sorption on highly nitrogen doped carbonaceous materials derived from uric acid. Journal of Colloid and Interface Science, 2021, 602, 880-888.	5.0	9
339	Anisotropic effects of oxygen vacancy defects on the electrical properties of highly oriented bismuth titanate ferroelectric ceramics. Ceramics International, 2021, 47, 30439-30447.	2.3	7
340	Unexpected increasing Co valence state of an exsolved catalyst by Mo doping for enhanced oxygen evolution reaction. Chemical Engineering Journal, 2021, 425, 130681.	6.6	11
341	Experimental-structural study, Raman spectroscopy, UVâ€visible, and impedance characterizations of Ba0.97La0.02Ti0.9Nb0.08O3 polycrystalline sample. Journal of Molecular Structure, 2022, 1249, 131539.	1.8	18
342	Constructing N-doping biomass-derived carbon with hierarchically porous architecture to boost fast reaction kinetics for higfh-performance lithium storage. Journal of Colloid and Interface Science, 2022, 605, 741-751.	5.0	19
343	Honeycomb-like Carbon-supported Fe Single Atom Catalyst: Preparation and Electrocatalytic Performance in Oxygen Reduction Reaction. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 943.	0.6	1
344	Digital Transformation in Materials Science: A Paradigm Change in Material's Development. Advanced Materials, 2021, 33, e2004940.	11.1	37
345	Elucidating the influence of molten salt chemistries on the synthesis and stability of perovskites oxides. RSC Advances, 2021, 11, 29156-29163.	1.7	2
346	Ultrathin IrO₂ Nanoneedles for Electrochemical Water Oxidation. Advanced Functional Materials, 2018, 28, 1704796.	7.8	226
347	Molten salt synthesis of carbon-doped boron nitride nanosheets with enhanced adsorption performance. Nanotechnology, 2020, 31, 505606.	1.3	21
348	Molten salt-confined pyrolysis towards carbon nanotube-backboned microporous carbon for high-energy-density and durable supercapacitor electrodes. Nanotechnology, 2021, 32, 095605.	1.3	11

#	Article	IF	Citations
349	Reviewâ€"Two-Dimensional Boron Carbon Nitride: A Comprehensive Review. ECS Journal of Solid State Science and Technology, 2020, 9, 083004.	0.9	49
350	Facile Preparation of Nitrogen-doped Porous Carbons via Salt Melt Synthesis with Efficient Catalytic Desulfurization Performance. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2017, 32, 770.	0.6	6
351	Nitrogenâ€Doped Carbon Networks with Consecutive Conductive Pathways from a Facile Competitive Carbonizationâ€Etching Strategy for Highâ€Performance Energy Storage. Small, 2022, 18, e2104375.	5.2	10
352	Molecular grafting based polymeric carbon nitride for wondrous artificial photosynthesis. International Journal of Energy Research, 2022, 46, 1882-1893.	2.2	20
353	Synthesis of Nanostructured Garnets. , 2019, , 25-68.		2
354	Molten Salt Synthesis of Bi2WO6 Powders and its Visible-Light Photocatalytic Activity. Materials Research, 2019, 22, .	0.6	1
355	The Synthesis of PbZr0.52Ti0.48O3 and PbZr0.58Ti0.42O3 Ceramic Powder by Use Molten Salt Method and Its Intermediate Product Analysis. Majalah Ilmiah Pengkajian Industri, 2019, 13, 195-200.	0.2	0
356	Harvesting yolk-shell nanocomposites from Fe-MIL-101 self-template in NaCl/KCl molten salt environment for high-performance microwave absorber. Chemical Engineering Journal, 2022, 430, 133112.	6.6	11
357	Boosting oxygen-reduction catalysis over mononuclear CuN2+2 moiety for rechargeable Zn-air battery. Chemical Engineering Journal, 2022, 430, 133105.	6.6	12
359	Molten-salt defect engineering of TiO2(B) nanobelts for enhanced photocatalytic hydrogen evolution. Jcis Open, 2021, 4, 100031.	1.5	3
360	Study of the synthetic process of CaBi₂Ta₂O₉ powder by the molten-salt method. Journal of Materials Research, 2021, 36, 1-9.	1.2	2
361	Preparation of SiC coated graphite flake with much improved performance via a molten salt shielded method. International Journal of Applied Ceramic Technology, 2022, 19, 1529-1539.	1.1	5
362	Controllable sites and high-capacity immobilization of uranium in Nd₂Zr₂O₇ pyrochlore. Journal of Synchrotron Radiation, 2022, 29, 37-44.	1.0	8
363	Sacrificial template synthesis of (V0.8Ti0.1Cr0.1)2AlC and carbon fiber@(V0.8Ti0.1Cr0.1)2AlC microrods for efficient microwave absorption. Journal of Materials Science and Technology, 2022, 111, 236-244.	5.6	14
364	Synthetic Biofuels by Moltenâ€Salt Catalytic Conversion: Corrosion of Structural Materials in Ternary Molten Chlorides. Advanced Engineering Materials, 0, , 2101453.	1.6	2
365	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie - International Edition, 2022, 61, .	7.2	355
366	Synthesis of photoluminescent polycrystalline SiC nanostructures via a modified molten salt shielded method. Ceramics International, 2022, 48, 12342-12349.	2.3	7
367	Cu^{II}/Cu^I decorated N-doped carbonaceous electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2022, 10, 6107-6114.	5.2	16

#	Article	IF	Citations
368	A brief review of s-triazine graphitic carbon nitride. Carbon Letters, 2022, 32, 703-712.	3.3	15
369	Perspective on Micro-Supercapacitors. Frontiers in Chemistry, 2021, 9, 807500.	1.8	14
370	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie, 0, , .	1.6	24
371	Molten salt-directed Ni3S2/C nanocomposite with advanced dielectric and magnetic properties for efficient microwave absorption. Journal of Alloys and Compounds, 2022, 902, 163713.	2.8	14
372	Construction of Li/K dopants and cyano defects in graphitic carbon nitride for highly efficient peroxymonosulfate activation towards organic contaminants degradation. Chemosphere, 2022, 294, 133700.	4.2	13
373	Molten salt synthesis of carbon-supported Ptâ€“rare earth metal nanoalloy catalysts for oxygen reduction reaction. RSC Advances, 2022, 12, 4805-4812.	1.7	3
374	KClâ€“LiCl molten salt synthesis of LaOCl/CeO2-g-C3N4 with excellent photocatalytic-adsorbed removal performance for organic dye pollutant. Ceramics International, 2022, 48, 15439-15450.	2.3	18
375	Salt-Assisted Synthesis of Rod-Like Bi₂S₃ Single Crystals for Gas-Phase Elemental Mercury Removal. Energy & Fuels, 2022, 36, 2591-2599.	2.5	15
376	Molten salt method synthesis of multivalent cobalt and oxygen vacancy modified Nitrogen-doped MXene as highly efficient hydrogen and oxygen Evolution reaction electrocatalysts. Journal of Colloid and Interface Science, 2022, 615, 831-839.	5.0	16
377	Gaseous Elemental Mercury Capture by Magnetic FeS₂ Nanorods Synthesized via a Molten Salt Method. ACS Applied Nano Materials, 2022, 5, 2626-2635.	2.4	14
378	Molten salt assisted fabrication of ferroelectric BaTiO3 based cathode for high-performance lithium sulfur batteries. Chemical Engineering Journal, 2022, 435, 135031.	6.6	11
379	Atomic controllable anchoring of uranium into zirconate pyrochlore with ultrahigh loading capacity. Chemical Communications, 2022, 58, 3469-3472.	2.2	3
380	Templating synthesis of porous carbons for energy-related applications: A review. New Carbon Materials, 2022, 37, 25-45.	2.9	25
382	Transformation of sewage sludge into activated carbon by molten salt synthesis for adsorption of CO2 and dyes. Environmental Chemistry Letters, 2022, 20, 2253-2259.	8.3	7
383	Synthesis of KNN nanoblocks through surfactant-assisted hot injection method and fabrication of flexible piezoelectric nanogenerator based on KNN-PVDF nanocomposite. Materials Today Communications, 2022, 31, 103291.	0.9	13
384	Molten Salt Flux Synthesis, Structure determination, Optical, Impedance and Modulus Spectroscopy Characterization of perovskite compound. Journal of Molecular Structure, 2022, 1260, 132788.	1.8	9
385	Advances in Molten Salt Synthesis of Nonâ€oxide Materials. Energy and Environmental Materials, 2023, 6, .	7.3	13
386	Recent advances of biomass derived carbon-based materials for efficient electrochemical energy devices. Journal of Materials Chemistry A, 2022, 10, 9277-9307.	5.2	48

#	Article	IF	Citations
387	High-rate performance boron-doped silicon flakes anode using a molten salts method for lithium-ion batteries. Journal of Alloys and Compounds, 2022, 911, 164965.	2.8	8
388	Investigation into La(Fe/Mn)O₃ Perovskites Formation over Time during Molten Salt Synthesis. Inorganic Chemistry, 2022, 61, 6367-6375.	1.9	5
389	Preparation of a carbon fibre-reinforced carbon aerogel and its application as a high-temperature thermal insulator. RSC Advances, 2022, 12, 13783-13791.	1.7	8
390	Fe3c Decorated Wood-Derived Integral N-Doped C Cathode for Rechargeable Li-O2 Batteries. SSRN Electronic Journal, 0, , .	0.4	0
391	Study on the growth of Monolayer MoS₂ films dual-assisted by NaCl. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
392	Effect of the substitution of titanium by niobium on the structural, electric and modulus properties in Ba0.97La0.02Ti(1-x)Nb4x/5O3 perovskites. Journal of Molecular Structure, 2022, 1264, 133273.	1.8	4
393	Self-Expanding Molten Salt-Driven Growth of Patterned Transition-Metal Dichalcogenide Crystals. Journal of the American Chemical Society, 2022, 144, 8746-8755.	6.6	15
394	Integrating coral-like morphology into cyano-containing carbon nitride towards efficient photocatalytic H2 evolution and Cr(â...¥) reduction. International Journal of Hydrogen Energy, 2022, 47, 20803-20815.	3.8	6
395	Lowâ€temperature Pr₃Si₂C₂â€assisted liquidâ€phase sintering of SiC with improved thermal conductivity. Journal of the American Ceramic Society, 2022, 105, 5576-5584.	1.9	11
396	Graphene oxide coupled high-index facets CdZnS with rich sulfur vacancies for synergistic boosting visible-light-catalytic hydrogen evolution in natural seawater: Experimental and DFT study. Journal of Colloid and Interface Science, 2022, 623, 34-43.	5.0	13
397	Geoinspired syntheses of materials and nanomaterials. Chemical Society Reviews, 2022, 51, 4828-4866.	18.7	4
398	Salt-templated synthesis of CuO/Carbon nanosheets for efficient microwave absorption. Applied Surface Science, 2022, 598, 153779.	3.1	6
399	Recent Advances in Dualâ€Atom Site Catalysts for Efficient Oxygen and Carbon Dioxide Electrocatalysis. Small Methods, 2022, 6, .	4.6	36
400	Tuning the structure and electrochemical performance of pinecone-derived porous carbon for potassium-ion battery anodes using molten ZnCl2. Ionics, 2022, 28, 3799-3816.	1.2	3
401	Generalized synthesis of NaCrO₂ particles for high-rate sodium ion batteries prepared by microfluidic synthesis in segmented flow. Dalton Transactions, 2022, 51, 10466-10474.	1.6	1
402	A Duplex Grain Structure of Dense (K, Na)NbO3 Ceramics Constructed by Using Microcrystalline as Seed. Journal Wuhan University of Technology, Materials Science Edition, 2022, 37, 385-392.	0.4	3
403	Synergistically Enhanced Single-Atom Nickel Catalysis for Alkaline Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2022, 14, 29822-29831.	4.0	9
404	K_xC_y phase induced expanded interlayer in ultraâ€thin carbon toward full potassiumâ€ion capacitors. , 2022, 4, 1151-1168.		18

#	Article	IF	Citations
405	N-doped pinecone-based carbon with a hierarchical porous pie-like structure: a long-cycle-life anode material for potassium-ion batteries. RSC Advances, 2022, 12, 20305-20318.	1.7	5
406	Cocrystallization Enabled Spatial Selfâ€Confinement Gives Crystalline Porous Metal Oxide Nanosheets for Gas Sensing. Angewandte Chemie, 0, , .	1.6	4
407	Near-seamless joining of Cf/SiC composites using Y3Si2C2 via electric field-assisted sintering technique. Journal of Advanced Ceramics, 2022, 11, 1196-1207.	8.9	16
408	Cocrystallization Enabled Spatial Selfâ€Confinement Approach to Synthesize Crystalline Porous Metal Oxide Nanosheets for Gas Sensing. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
410	Chiral Porous Carbon Surfaces for Enantiospecific Synthesis. Polymers, 2022, 14, 2765.	2.0	3
411	Energyâ€Saving Pathways for Thermoelectric Nanomaterial Synthesis: Hydrothermal/Solvothermal, Microwaveâ€Assisted, Solutionâ€Based, and Powder Processing. Advanced Science, 2022, 9, .	5.6	60
412	Mesoporous carbon derived from anaerobic granular sludge through molten salt method and its application for dye adsorption: an experimental and molecular dynamics simulation study. Biomass Conversion and Biorefinery, 0, , .	2.9	2
413	Synthesis, formation mechanism, and intrinsic physical properties of several As/P-containing MAX phases. Journal of Materials Science and Technology, 2023, 133, 23-31.	5.6	1
414	Facile synthesis of hollow Ti3AlC2 microrods in molten salts via Kirkendall effect. Journal of Advanced Ceramics, 2022, 11, 1491-1497.	8.9	10
415	Understanding Synthesisâ€“Structureâ€“Performance Correlations of Nanoarchitectured Activated Carbons for Electrochemical Applications and Carbon Capture. Advanced Functional Materials, 2022, 32, .	7.8	32
416	Ultrafast low-temperature near-seamless joining of Cf/SiC using a sacrificial Pr3Si2C2 filler via electric current field-assisted sintering technique. Journal of the European Ceramic Society, 2022, 42, 6865-6875.	2.8	8
417	Tuning electron delocalization and surface area in COFs derived N, B co-doped carbon materials for efficient selective hydrogenation of nitroarenes. Chinese Chemical Letters, 2023, 34, 107770.	4.8	1
418	Molten salt flux synthesis of cobalt doped refractory double perovskite Sr 2CoxGa1-xNbO6: A spectroscopic investigation for multifunctional materials. Journal of Solid State Chemistry, 2022, 315, 123507.	1.4	0
419	A facile preparation of submicro-sized Ti2AlC precursor toward Ti2CT MXene for lithium storage. Electrochimica Acta, 2022, 432, 141152.	2.6	3
420	A synergistic architecture design for functionally boosting the hydroxyl adsorption and charge transfer for the oxygen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 20787-20793.	5.2	6
421	Molten Salt Assisted Synthesis of Boron Carbon Nitride Nanosheets for Enhanced Photocatalytic Activity of Silver Phosphate. Journal of Nanoelectronics and Optoelectronics, 2022, 17, 560-568.	0.1	2
422	Ionothermally synthesized S-scheme isotype heterojunction of carbon nitride with significantly enhanced photocatalytic performance for hydrogen evolution and carbon dioxide reduction. Carbon, 2023, 201, 815-828.	5.4	17
423	Solâ€“Gel-Process-Based Molten-Flux Synthesis of Plate-like La2NiO4+Î´ Particles. Crystals, 2022, 12, 1346.	1.0	0

#	Article	IF	Citations
424	An efficient nanodiamond-based monolithic foam catalyst prepared by a facile thermal impregnation strategy for direct dehydrogenation of ethylbenzene to styrene. Chinese Chemical Letters, 2023, 34, 107808.	4.8	2
425	Shapeâ€Controlled NaTaO ₃ by Fluxâ€Mediated Synthesis. Advanced Functional Materials, 0, , 2206641.	7.8	2
426	Mechanism of the formation, growth and transformation of BaTi2O5 nanorods synthesized by one-step in molten-salts. Ceramics International, 2023, 49, 84-94.	2.3	3
427	Molten salts for rechargeable batteries. Materials Today, 2022, 60, 128-157.	8.3	20
428	Iodine and Carbonate Species Monitoring in Molten NaOHâ€“KOH Eutectic Scrubber via Dual-Phase In Situ Raman Spectroscopy. ACS Omega, 2022, 7, 40456-40465.	1.6	4
429	Catalytic Properties of High Nitrogen Content Carbonaceous Materials. Angewandte Chemie, 2023, 135, .	1.6	1
430	Catalytic Properties of High Nitrogen Content Carbonaceous Materials. Angewandte Chemie - International Edition, 2023, 62, .	7.2	11
431	Facile and rapid synthesis of hierarchical LDHs array by universal molten salt with bound water toward efficient oxygen evolution electrocatalysis. Chemical Engineering Journal, 2023, 452, 139686.	6.6	3
432	Following carbon condensation by in situ TEM: towards a rational understanding of the processes in the synthesis of nitrogen-doped carbonaceous materials. Journal of Materials Chemistry A, 2022, 10, 25220-25229.	5.2	1
433	Synthesis of Thorium Dioxide Nanocrystals via Molten Salt Thermal Decomposition for Nuclear Energy-Related Applications. ACS Applied Nano Materials, 2022, 5, 17977-17985.	2.4	3
434	Controlling of Ni-Based Composites in Salt Melt Synthesis with High Sodium-Ion Storage Performance. ACS Applied Materials & Interfaces, 2022, 14, 52067-52078.	4.0	7
435	Polymeric Carbon Nitride from Inorganic Precursor in Eutectic Salts: Enhanced Exciton Dissociation and Photocatalytic H₂O₂ Production. Journal of Physical Chemistry C, 2022, 126, 20028-20035.	1.5	8
436	Molten-salt-induced phosphorus vacancy defect engineering of heterostructured cobalt phosphides for efficient overall water splitting. Inorganic Chemistry Frontiers, 2022, 10, 325-334.	3.0	11
438	Immobilization of gaseous elemental mercury using SnS2-Wrapped magnetic Fe3O4 microspheres. Journal of the Energy Institute, 2023, 106, 101148.	2.7	3
439	Fe3C decorated wood-derived integral N-doped C cathode for rechargeable Li-O2 batteries. Applied Catalysis B: Environmental, 2023, 324, 122203.	10.8	7
440	Total exfoliation of graphite in molten salts. Physical Chemistry Chemical Physics, 2023, 25, 2618-2628.	1.3	5
441	2D Molybdenum Compounds for Electrocatalytic Energy Conversion. Advanced Functional Materials, 2023, 33, .	7.8	12
442	Ultra-stable, Solution-Processable CsPbBr₃-SiO₂ Nanospheres for Highly Efficient Color Conversion in Micro Light-Emitting Diodes. ACS Energy Letters, 2023, 8, 151-158.	8.8	33

#	Article	IF	Citations
443	Saltâ€Assisted Lowâ€Temperature Growth of 2D Bi₂O₂Se with Controlled Thickness for Electronics. Small, 2023, 19, .	5.2	15
444	Towards Greener and More Sustainable Synthesis of MXenes: A Review. Nanomaterials, 2022, 12, 4280.	1.9	35
445	In2O3 sensing electrode prepared by salt melt method for impedancemetric-type NH3 sensor. Sensors and Actuators B: Chemical, 2023, 379, 133236.	4.0	0
446	Effects of Al Doping on Hydrogen Production Efficiency upon Photostimulated Water Splitting on SrTiO₃ Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 21223-21233.	1.5	7
447	Molten Salt-Assisted Construction of Hollow Carbon Spheres with Outer-Order and Inner-Disorder Heterostructure for Ultra-Stable Potassium Ion Storage. ACS Applied Materials & Interfaces, 0, , .	4.0	3
448	Molten salt assisted Co1â^'xAgxMoO4 with lattice Ag doping and oxygen vacancy for stable water oxidation. Applied Surface Science, 2023, 614, 156075.	3.1	5
449	A Heterogeneous Single Atom Cobalt Catalyst for Highly Efficient Acceptorless Dehydrogenative Coupling Reactions. Small, 2023, 19, .	5.2	12
450	A review on the extraction and recovery of critical metals using molten salt electrolysis. Journal of Environmental Chemical Engineering, 2023, 11, 109746.	3.3	5
451	A facile route to metal-oxide nanocrystals by direct pyrolysis of metal-organic frameworks. Materials Letters, 2023, 341, 134221.	1.3	1
452	Nanoarchitecture Manipulation by Polycondensation on KCl Crystals toward Crystalline Lamellar Carbon Nitride for Efficient H₂O₂ Photoproduction. ACS Applied Materials & Interfaces, 2023, 15, 8232-8240.	4.0	14
453	Nanostructured Layered Lithium Iridates as Electrocatalysts for Improved Oxygen Evolution Reaction. ACS Applied Nano Materials, 2023, 6, 2577-2584.	2.4	0
454	Molten Salt Synthesis of Persistent Luminescent/Magnetic Cr³⁺-Doped Zinc Gallogermanate Particles. Journal of Physical Chemistry C, 2023, 127, 3733-3741.	1.5	2
455	Molten salt electrosynthesis of Cr2GeC nanoparticles as anode materials for lithium-ion batteries. Frontiers in Chemistry, 0, 11, .	1.8	3
456	Recent advancements in CaFe₂O₄-based composite: Properties, synthesis, and multiple applications. Energy and Environment, 2024, 35, 458-490.	2.7	6
457	Nb2CTx-Based MXenes Most Recent Developments: From Principles to New Applications. Energies, 2023, 16, 3520.	1.6	9
458	Non-contact gaseous microplasma electrode as anode for electrodeposition of metal and metal alloy in molten salt. Chinese Chemical Letters, 2024, 35, 108483.	4.8	2
491	Wet-Chemistry Synthesis of Carbon Nanostructures. , 2023, , 1-27.		0
492	Efficient molten salt CO2 capture and selective electrochemical transformation processes toward carbon neutrality: advances, challenges, and prospects. Science China Chemistry, 0, , .	4.2	0

#	Article	IF	Citations
500	Molten salt technique for the synthesis of carbon-based materials for supercapacitors. Green Chemistry, 2023, 25, 10209-10234.	4.6	5
509	Nanostructured single-atom catalysts derived from natural building blocks. , 2024, 2, 475-506.		0