

Yixin Hua

List of Publications by Year in descending order

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64
papers

1,158
citations

394421

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docs citations

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932
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#	ARTICLE	IF	CITATIONS
1	Corrosion inhibition of aluminum in hydrochloric acid solution by alkylimidazolium ionic liquids. <i>Materials Chemistry and Physics</i> , 2010, 119, 57-64.	4.0	173
2	Leaching of chalcopyrite with Brønsted acidic ionic liquid. <i>Hydrometallurgy</i> , 2009, 99, 33-38.	4.3	80
3	Effects of 1-butyl-3-methylimidazolium hydrogen sulfate-[BMIM]HSO ₄ on zinc electrodeposition from acidic sulfate electrolyte. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 261-267.	2.9	66
4	Morphology-controlled preparation of lead powders by electrodeposition from different PbO-containing choline chloride-urea deep eutectic solvent. <i>Applied Surface Science</i> , 2015, 335, 153-159.	6.1	43
5	Effect of Mn ²⁺ ions on the electrodeposition of zinc from acidic sulphate solutions. <i>Hydrometallurgy</i> , 2009, 99, 249-254.	4.3	41
6	Recovery of zinc from a low-grade zinc oxide ore with high silicon by sulfuric acid curing and water leaching. <i>Hydrometallurgy</i> , 2016, 166, 16-21.	4.3	39
7	Mechanistic insight of in situ electrochemical reduction of solid PbO to lead in ChCl-EG deep eutectic solvent. <i>Electrochimica Acta</i> , 2015, 186, 455-464.	5.2	31
8	Preparation of sub-micrometer lead wires from PbO by electrodeposition in choline chloride-urea deep eutectic solvent. <i>Advanced Powder Technology</i> , 2015, 26, 91-97.	4.1	31
9	The electrodeposition of Zn-Ti alloys from ZnCl ₂ -urea deep eutectic solvent. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2149-2155.	2.5	30
10	Microwave-assisted preparation of submicron-sized FeTiO ₃ powders. <i>Ceramics International</i> , 2014, 40, 6799-6805.	4.8	30
11	Effects of [HMIM]HSO ₄ and [OMIM]HSO ₄ on the electrodeposition of zinc from sulfate electrolytes. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1185-1192.	2.9	26
12	Effect of CaO addition on preparation of ferrotitanium from ilmenite by electrochemical reduction in CaCl ₂ -NaCl molten salt. <i>Journal of Alloys and Compounds</i> , 2016, 676, 383-389.	5.5	26
13	Microwave-enhanced roasting of copper sulfide concentrate in the presence of CaCO ₃ . <i>Separation and Purification Technology</i> , 2006, 50, 22-29.	7.9	25
14	Synthesis of TiN from FeTiO ₃ by microwave-assisted carbothermic reduction-nitridation. <i>Journal of Alloys and Compounds</i> , 2014, 583, 121-127.	5.5	24
15	Silicon-titanium nanocomposite synthesized via the direct electrolysis of SiO ₂ /TiO ₂ precursor in molten salt and their performance as the anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 781, 362-370.	5.5	24
16	Preparation of TiC/SiC composites from Ti-enriched slag by an electrochemical process in molten salts. <i>Ceramics International</i> , 2015, 41, 11428-11435.	4.8	22
17	The effect of quaternary ammonium-based ionic liquids on copper electrodeposition from acidic sulfate electrolyte. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 79-86.	2.9	22
18	Electrolytic synthesis of ferrotitanium powders from ilmenite in CaCl ₂ -NaCl melts at a lower temperature of 700°C. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1124-1131.	5.5	22

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19	Effects of existence form and concentration of PbO on the conductivity of choline chloride-urea deep eutectic solvent. <i>Journal of Molecular Liquids</i> , 2014, 199, 208-214.	4.9	21
20	Preparation of Ni-Encapsulated ZTA Particles as Precursors to Reinforce Iron-Based Composites. <i>Advanced Engineering Materials</i> , 2017, 19, 1700268.	3.5	18
21	Synthesis of micro-FeTi powders by direct electrochemical reduction of ilmenite in CaCl ₂ -NaCl molten salt. <i>Ionics</i> , 2017, 23, 213-221.	2.4	18
22	Electrolytic synthesis of TiC/SiC nanocomposites from high titanium slag in molten salt. <i>Ceramics International</i> , 2018, 44, 3596-3605.	4.8	18
23	Kinetic investigation of zinc electrodeposition from sulfate electrolytes in the presence of impurities and ionic liquid additive [BMIM]HSO ₄ . <i>Materials Chemistry and Physics</i> , 2012, 134, 333-339.	4.0	17
24	Influence of chloride ion on zinc electrodeposition from choline chloride based deep eutectic solvent. <i>Ionics</i> , 2020, 26, 1483-1490.	2.4	17
25	Recycling of zinc oxide dust using ChCl-urea deep eutectic solvent with nitrilotriacetic acid as complexing agents. <i>Minerals Engineering</i> , 2022, 175, 107295.	4.3	17
26	Preparation of Ferrotitanium from Ilmenite by Electrolysis-Assisted Calciothermic Reduction in CaCl ₂ -NaCl Molten Salt. <i>Jom</i> , 2016, 68, 532-539.	1.9	15
27	Electrochemical preparation of Ni-La alloys from the EMIC-EG eutectic-based ionic liquid. <i>Ionics</i> , 2017, 23, 1703-1710.	2.4	15
28	Eco-friendly preparation of nanocrystalline Fe-Cr alloy coating by electrodeposition in deep eutectic solvent without any additives for anti-corrosion. <i>Surface and Coatings Technology</i> , 2021, 406, 126636.	4.8	15
29	Electrodeposition of Al-Ti alloy on mild steel from AlCl ₃ -BMIC ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1349-1356.	2.5	14
30	Direct Electro-Deoxidation of Solid PbO to Porous Lead in Choline Chloride-Ethylene Glycol Deep Eutectic Solvent. <i>Journal of the Electrochemical Society</i> , 2017, 164, D143-D149.	2.9	14
31	Ionic Liquid-Assisted Preparation of Ni-Cr Dual Wrapped ZTA Particles for Reinforced Iron-Based Composites. <i>Advanced Engineering Materials</i> , 2019, 21, 1801120.	3.5	14
32	Dissolution-electrodeposition pathway and bulk porosity on the impact of in situ reduction of solid PbO in deep eutectic solvent. <i>Electrochimica Acta</i> , 2016, 196, 56-66.	5.2	13
33	Preparation of porous lead from shape-controlled PbO bulk by in situ electrochemical reduction in ChCl-EG deep eutectic solvent. <i>Applied Surface Science</i> , 2015, 357, 2094-2102.	6.1	12
34	One-Step Electrochemical Preparation of Lead Powders and Sulfur Nanoparticles from Solid Lead Sulfide in Deep Eutectic Solvents without SO ₂ Gas. <i>Journal of the Electrochemical Society</i> , 2018, 165, D482-D487.	2.9	12
35	Understanding the electrochemical behavior of Sn(II) in choline chloride-ethylene glycol deep eutectic solvent for tin powders preparation. <i>Advanced Powder Technology</i> , 2022, 33, 103670.	4.1	12
36	Controllable preparation of antimony powders by electrodeposition in choline chloride-ethylene glycol. <i>Advanced Powder Technology</i> , 2019, 30, 2859-2867.	4.1	11

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37	Electrodeposition of Sn powders with pyramid chain and dendrite structures in deep eutectic solvent: roles of current density and SnCl ₂ concentration. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 1111-1120.	2.5	11
38	Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO ₄ as additive. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 705-712.	2.9	10
39	Effect of ionic liquid additive [BMIM]HSO ₄ on zinc electrodeposition from impurity-containing sulfate electrolyte. Part I: current efficiency, surface morphology, and crystal orientations. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 481-490.	2.9	9
40	Effect of FeS Content on Pb-Sb Separation of Pb-Sb ₂ S ₃ -FeS Ternary System Under Water Atmosphere. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 1-6.	1.5	9
41	Morphology-Controlled Preparation of Sn Powders by Electrodeposition in Deep Eutectic Solvent as Anodes for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 082504.	2.9	9
42	Effects of ionic liquid additive [bmim]BF ₄ on fabrication of Ni-decorated Al ₂ O ₃ powders by electroless deposition. <i>Advanced Powder Technology</i> , 2017, 28, 430-437.	4.1	8
43	Verification of the electro-decomposition of the CaO component in equimolar CaCl ₂ -NaCl molten salt during the direct electrolysis of ilmenite in a two-terminal chamber. <i>Electrochimica Acta</i> , 2018, 271, 490-497.	5.2	8
44	The Effect of Water on the Tin Electrodeposition from [Bmim]HSO ₄ Ionic Liquid. <i>International Journal of Electrochemistry</i> , 2018, 2018, 1-7.	2.4	7
45	Electrodeposition of Ni-Mg alloys from 1-butyl-3-methylimidazolium chloride/glycerin eutectic-based ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 793-800.	2.5	6
46	Influence of [BMIM]HSO ₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath. <i>Surface and Interface Analysis</i> , 2012, 44, 1254-1260.	1.8	5
47	Initial stages of copper electrodeposition from acidic sulfate solution in the presence of alkylpyridinium hydrosulfate ionic liquids. <i>Science China Chemistry</i> , 2013, 56, 1586-1592.	8.2	5
48	Preparation and characterisation of TiN by microwave-assisted carbothermic reduction-nitridation in air atmosphere. <i>Advances in Applied Ceramics</i> , 2017, 116, 468-476.	1.1	5
49	Effects of Cuprous Ion on Electrodeposition of Aluminum from AlCl ₃ -BMIC Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2021, 168, 012502.	2.9	5
50	Direct electroreduction of solid cuprous chloride to copper powder in 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Science China Chemistry</i> , 2014, 57, 397-401.	8.2	4
51	Preparation of Ferrotitanium Alloys by Electrolysis-Assisted Calciothermic Reduction of Ilmenite in Equimolar CaCl ₂ -NaCl Electrolyte: Effect of Calcium Oxide. <i>Jom</i> , 2018, 70, 575-580.	1.9	4
52	Eco-friendly and facile electrochemical synthesis of sub-micrometer lead powders in deep eutectic solvents using galena as a raw material. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 369-377.	2.9	4
53	Eco-Friendly Extraction of Lead from Galena by In Situ Electrochemical Reduction in ChCl-EG Deep Eutectic Solvent. <i>Journal of the Electrochemical Society</i> , 2021, 168, 082505.	2.9	4
54	Effects of antimony(III) on zinc electrodeposition from acidic sulfate electrolyte containing [BMIM]HSO ₄ . <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2329-2335.	2.9	3

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55	Effect of ZnS Content on Pb-Sb Separation of Pb-Sb ₂ S ₃ -ZnS Ternary System Under Water Vapor Atmosphere. Transactions of the Indian Institute of Metals, 2015, 68, 37-41.	1.5	2
56	Synergistic effect of FeS and ZnS content on the separation of lead and antimony for Pb-Sb ₂ S ₃ -ZnS-FeS quaternary system under water vapor atmosphere. Russian Journal of Non-Ferrous Metals, 2017, 58, 8-14.	0.6	2
57	Effect of Cu(I) ion on electrodeposition of zinc from ChCl-urea deep eutectic solvent. Journal of Solid State Electrochemistry, 2020, 24, 1175-1184.	2.5	2
58	Electrochemical behavior of Sb(III)/Sb during the preparation of Sb particles in deep eutectic solvent. Ionics, 2021, 27, 3119-3127.	2.4	2
59	Compression Performance and Abrasive Wear Resistance of CuNi-Modified Zirconium Oxide-Toughened Alumina Particles-Reinforced Iron Matrix Composites. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100625.	1.8	2
60	Effect of nicotinic acid additives on the electrodeposition of Al-Mn alloy from AlCl ₃ -based ionic liquids. Ionics, 2022, 28, 3525-3536.	2.4	2
61	Roles of SiO ₂ Additive on Preparation of Ferrotitanium from Ilmenite Concentrate by Electrochemical Reduction in CaCl ₂ Molten Salt. Jom, 2020, 72, 3836-3842.	1.9	1
62	Electrochemical Separation of High-Purity Sb from Pb-Containing Sb Alloy in Choline Chloride-Ethylene Glycol Deep Eutectic Solvent. Jom, 2022, 74, 915-923.	1.9	1
63	Computer simulation study on the structure and spectrum of water in BF ₄ ⁻ solvation shell. , 2009, , .		0
64	Surface metallization with Ni-Cu bimetal for ZTA by electroless plating. Composite Interfaces, 0, , 1-14.	2.3	0