Yuhui Liu

List of Publications by Year
in descending order

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60 papers	2,371 citations	257450 24 h-index	214800 47 g-index
60 all docs	60 docs citations	60 times ranked	2050 citing authors

#	Article	IF	Citations
1	Recent developments in high-strength Mg-RE-based alloys: Focusing on Mg-Gd and Mg-Y systems. Journal of Magnesium and Alloys, 2018, 6, 277-291.	11.9	554
2	Fabrication of ZnO/epoxy resin superhydrophobic coating on AZ31 magnesium alloy. Chemical Engineering Journal, 2019, 368, 261-272.	12.7	150
3	Integration of IRâ€808 Sensitized Upconversion Nanostructure and MoS₂ Nanosheet for 808 nm NIR Light Triggered Phototherapy and Bioimaging. Small, 2017, 13, 1701841.	10.0	117
4	A chitosan-graphene oxide/ZIF foam with anti-biofouling ability for uranium recovery from seawater. Chemical Engineering Journal, 2020, 382, 122850.	12.7	117
5	Enhanced Electromagnetic Interference Shielding in a Duplex-Phase Mgâ€“9Liâ€“3Alâ€“1Zn Alloy Processed by Accumulative Roll Bonding. Acta Metallurgica Sinica (English Letters), 2020, 33, 490-499.	2.9	83
6	Graphene Oxide and Silver Ions Coassisted Zeolitic Imidazolate Framework for Antifouling and Uranium Enrichment from Seawater. ACS Sustainable Chemistry and Engineering, 2019, 7, 6185-6195.	6.7	73
7	Microstructure, mechanical properties and wear performance of AZ31 matrix composites reinforced by graphene nanoplatelets(GNPs). Journal of Alloys and Compounds, 2018, 750, 530-536.	5.5	71
8	Electrochemical extraction of samarium from LiCl-KCl melt by forming Sm-Zn alloys. Electrochimica Acta, 2014, 120, 369-378.	5.2	67
9	3D Cu(OH)2 nanowires/carbon cloth for flexible supercapacitors with outstanding cycle stability. Chemical Engineering Journal, 2019, 371, 348-355.	12.7	59
10	Ionic liquid-aqueous solution ultrasonic-assisted extraction of three kinds of alkaloids from Phellodendron amurense Rupr and optimize conditions use response surface. Ultrasonics Sonochemistry, 2015, 24, 13-18.	8.2	58
11	Microstructure and thermal conductivity of Mg-2Zn-Zr alloy. Journal of Alloys and Compounds, 2017, 722, 772-777.	5.5	57
12	Hyperbranched topological swollen-layer constructs of multi-active sites polyacrylonitrile (PAN) adsorbent for uranium(VI) extraction from seawater. Chemical Engineering Journal, 2019, 374, 1204-1213.	12.7	57
13	One-pot synthesis of cubic ZnSnO3/ZnO heterostructure composite and enhanced gas-sensing performance. Journal of Alloys and Compounds, 2019, 780, 193-201.	5.5	55
14	Ambient-temperature mechanical properties of isochronally aged 1420-Sc-Zr aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 411-419.	5.6	54
15	Microstructure and mechanical properties of high-performance Mgâ€“Yâ€“Erâ€“Zn extruded alloy. Materials & Design, 2014, 54, 256-263.	5.1	52
16	Influence of Y and Nd on microstructure, texture and anisotropy of Mgâ€“5Liâ€“1Al alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 1-7.	5.6	50
17	Superhydrophilic phosphate and amide functionalized magnetic adsorbent: a new combination of anti-biofouling and uranium extraction from seawater. Environmental Science: Nano, 2018, 5, 2346-2356.	4.3	44
18	Preparation of Fineâ€Grained and Highâ€Strength Mgâ€“8Liâ€“3Alâ€“1Zn Alloy by Accumulative Roll Bonding. Advanced Engineering Materials, 2016, 18, 304-311.	3.5	40

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19	3D hybrid Ni-Multiwall carbon nanotubes/carbon nanofibers for detecting sarin nerve agent at room temperature. Journal of Alloys and Compounds, 2019, 780, 680-689.	5.5	33
20	Superplasticity at elevated temperature of an Mgâ€“8%Liâ€“2%Zn alloy. Journal of Alloys and Compounds, 2012, 541, 372-375.	5.5	32
21	One Pot, Two Phases: Individual Orthorhombic and Face-Centered Cubic ZnSnO₃ Obtained Synchronously in One Solution. Inorganic Chemistry, 2014, 53, 12289-12296.	4.0	31
22	Effect of Y and Ce addition on microstructures and mechanical properties of LZ91 alloys. Journal of Alloys and Compounds, 2019, 800, 72-80.	5.5	31
23	Influence of rolling strain on electromagnetic shielding property and mechanical properties of dual-phase Mg-9Li alloy. Materials Characterization, 2019, 157, 109924.	4.4	30
24	Effects of Sc and Zr on microstructure and properties of 1420 aluminum alloy. Materials Characterization, 2019, 154, 241-247.	4.4	30
25	Electrochemical behavior of Y(III) and preparation of Y-Ni intermetallic compounds in molten LiCl-KCl salts. Journal of Rare Earths, 2017, 35, 90-97.	4.8	24
26	HFIP-functionalized electrospun WO3 hollow nanofibers/rGO as an efficient double layer sensing material for dimethyl methylphosphonate gas under UV-Light irradiation. Journal of Alloys and Compounds, 2020, 832, 154999.	5.5	23
27	Microstructure and Mechanical Properties of CNT-Reinforced AZ31 Matrix Composites Prepared Using Hot-Press Sintering. Journal of Materials Engineering and Performance, 2017, 26, 5495-5500.	2.5	21
28	Mathematical analysis and its experimental comparisons for the accumulative roll bonding (ARB) process with different superimposed layers. Journal of Magnesium and Alloys, 2021, 9, 1741-1752.	11.9	21
29	Electrochemical Synthesis of Sm-Co Metal Magnetic Materials by Co-reduction of Sm(III) and Co(II) in LiCl-KCl-SmCl 3 -CoCl 2 Melt. Electrochimica Acta, 2017, 249, 278-289.	5.2	19
30	Electrochemical formation of distinct nanostructured MoS2 with altered antibacterial activity. Materials Letters, 2020, 271, 127809.	2.6	18
31	A hybrid sponge with guanidine and phytic acid enriched surface for integration of antibiofouling and uranium uptake from seawater. Applied Surface Science, 2020, 525, 146611.	6.1	18
32	The biological characteristics of a novel camptothecinâ€“artesunate conjugate. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 148-152.	2.2	17
33	Effects of pH, carbonate, calcium ion and humic acid concentrations, temperature, and uranium concentration on the adsorption of uranium on the CTAB-modified montmorillonite. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 1251-1259.	1.5	17
34	Electrochemical synthesis of Sm-Cu dendritic metal catalysts by Co-reduction of Sm(III) and Cu(II) in LiCl-KCl-SmCl3-CuCl2 melt. Journal of Alloys and Compounds, 2019, 772, 978-987.	5.5	17
35	Effect of rolling temperature on deformation behavior and mechanical properties of Mg-8Li-1Al-0.6Y-0.6Ce alloy. Journal of Alloys and Compounds, 2020, 831, 154765.	5.5	17
36	Ag-modified hexagonal nanoflakes-textured hollow octahedron Zn2SnO4 with enhanced sensing properties for triethylamine. Journal of Alloys and Compounds, 2020, 823, 153724.	5.5	17

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37	Effective adsorption of uranyl ions with different MoS2-exposed surfaces in aqueous solution. Surfaces and Interfaces, 2020, 18, 100409.	3.0	15
38	High-strength, ductility and modulus Alâ€“Li/B4C composite with near nanostructure produced by accumulative roll bonding. Journal of Alloys and Compounds, 2020, 834, 155105.	5.5	15
39	Electrochemical behavior and underpotential deposition of Sm on reactive electrodes (Al, Ni, Cu and) Tj ETQq1 1 0.784314 rgBT /Over	4.9	15
40	High-strength and ductility bimodal-grained Alâ€“Li/Alâ€“Liâ€“Zr composite produced by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 761, 138049.	5.6	14
41	Electrochemical Synthesis of Sm-Ni Alloy Magnetic Materials by Co-reduction of Sm(III) and Ni(II) in LiCl-KCl-SmCl₃-NiCl₂Melt. Journal of the Electrochemical Society, 2016, 163, D672-D681.	2.9	13
42	Selective formation of Ce-Ni hydrogen storage alloys by electro-deposition in LiCl-KCl-CeCl3 melts using Ni as cathode. Journal of Alloys and Compounds, 2019, 777, 1211-1221.	5.5	13
43	Electrochemical formation of Alâ€“Tm intermetallics in eutectic LiClâ€“KCl melt containing Tm and Al ions. Journal of Nuclear Materials, 2014, 452, 197-204.	2.7	12
44	A green electrolysis of silver-decorated MoS₂ nanocomposite with an enhanced antibacterial effect and low cytotoxicity. Nanoscale Advances, 2021, 3, 3460-3469.	4.6	12
45	Synergistic effect of carbon nanotube and graphene nanoplatelet addition on microstructure and mechanical properties of AZ31 prepared using hot-pressing sintering. Journal of Materials Research, 2018, 33, 4261-4269.	2.6	11
46	Encapsulating MoS2-nanoflowers conjugated with chitosan oligosaccharide into electrospun nanofibrous scaffolds for photothermal inactivation of bacteria. Journal of Nanostructure in Chemistry, 2024, 14, 137-151.	9.1	11
47	Electrochemical synthesis and tribological properties of flower-like and sheet-like MoS2 in LiCl KCl (NH4)6Mo7O24KSCN melt. Electrochimica Acta, 2018, 271, 252-260.	5.2	10
48	Extraction of gadolinium on Cu electrode from LiCl-KCl melts by formation of Cu-Gd alloys. Ionics, 2019, 25, 1897-1909.	2.4	9
49	Recovery of Terbium from LiCl-KCl-TbCl₃ System by Electrodeposition Using Different Electrodes. Journal of the Electrochemical Society, 2018, 165, D704-D710.	2.9	8
50	Study on formation and properties of Alâ€“Liâ€“Sm alloy containing whiskers in molten salts. RSC Advances, 2015, 5, 75863-75869.	3.6	6
51	New Mathematical Formulation for the Deposition Potential and Atomic Radius: Theoretical Background and Applications to Snâ€“Ln Intermetallic Compounds. Journal of Physical Chemistry C, 2018, 122, 3463-3470.	3.1	5
52	Electrochemical behaviour of magnesium(II) on Ni electrode in LiCl-KCl eutectic. Chemical Research in Chinese Universities, 2018, 34, 107-112.	2.6	5
53	New formulation for reduction potentials of (Cu, Ni, Al, Zn)â€“lanthanide alloys â€“ Implications for electrolysis-based pyroprocessing of spent nuclear fuel. Electrochemistry Communications, 2018, 93, 180-182.	4.7	5
54	High strength ultrafine-grained Alâ€“2Li laminate produced by accumulative roll bonding and aging processes. Journal of Alloys and Compounds, 2019, 811, 152045.	5.5	5

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55	Rapid Production of Ln₂O₂S:Eu³⁺/Tb³⁺ (Ln = Sm, La,) Tj ETQq1 1 0.784314 rgBT	5.1	3
56	The linear relationship derived from the deposition potential of Pbâ€“Ln alloy and atomic radius. New Journal of Chemistry, 2018, 42, 16533-16541.	2.8	3
57	A Study on the Periodic Rule of Reduction Potentials of Lanthanides on Liquid Zinc Electrode. Journal of the Electrochemical Society, 2019, 166, D689-D693.	2.9	3
58	Theoretical investigation of lanthanide and transition metal on Al cathode: Equilibrium potential and atomic radii analysis by a mathematical equation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 590, 124490.	4.7	3
59	Quantitative Description of the Equilibrium Potentials and Atomic Radius of the Coâ€“Ln Alloy by a Mathematical Equation. Journal of the Electrochemical Society, 2020, 167, 122502.	2.9	1
60	The equilibrium potentials of Niâ€“Ln alloys over the whole composition range in the phase diagram: experiment and prediction. New Journal of Chemistry, 2020, 44, 18686-18693.	2.8	0