

Tao Lu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrochemical incorporation of heteroatom into surface reconstruction induced Ni vacancy of Ni ₃ O ₄ nanosheet for enhanced water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 3030-3039.	9.4	9
2	Electrochemically reconstructed high-entropy amorphous FeCoNiCrVB as a highly active oxygen evolution catalyst. <i>New Journal of Chemistry</i> , 2022, 46, 8398-8406.	2.8	8
3	Anisotropy of microstructures and mechanical properties in FeCoNiCr _{0.5} high-entropy alloy prepared via selective laser melting. <i>Rare Metals</i> , 2022, 41, 2047-2054.	7.1	10
4	Element immiscibility assisted Ru@Ni ₃ B as an efficient electrocatalyst toward alkaline and acidic hydrogen evolution reaction. <i>Chemical Communications</i> , 2022, 58, 6741-6744.	4.1	6
5	Surface reconstruction induced <i>in situ</i> phosphorus doping in nickel oxides for an enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6432-6441.	10.3	38
6	Heterogeneously structured FeCuBP amorphous nanocrystalline alloy with excellent dye degradation efficiency. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	2
7	Effects of geometrical characteristics on defect distributions in alloy components produced by selective laser melting. <i>China Foundry</i> , 2021, 18, 369-378.	1.4	4
8	In-situ electrochemical tuning of (CoNiMnZnFe) ₃ O _{3.2} high-entropy oxide for efficient oxygen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159064.	5.5	57
9	In-situ reconstruction of non-noble multi-metal core-shell oxyfluorides for water oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 55-63.	9.4	7
10	Dealloying Generation of Oxygen Vacancies in the Amorphous Nanoporous Ni-Mo-O for Superior Electrocatalytic Hydrogen Generation. <i>ACS Applied Energy Materials</i> , 2020, 3, 1319-1327.	5.1	28
11	Grain Refining Efficiency and the Role of Alloying Elements in Determining the Nucleation Potency of LaB ₆ in Aluminum Alloys. <i>Jom</i> , 2020, 72, 3725-3732.	1.9	6
12	Novel synthesis of S-doped anatase TiO ₂ via hydrothermal reaction of Cu-Ti amorphous alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	7
13	Heteroatom Ni alloyed pyrite-phase FeS ₂ as a pre-catalyst for enhanced oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020, 355, 136821.	5.2	27
14	Effects of Grain Refinement on Tensile Properties and Precipitation Kinetics of Al-Si-Mg Alloys Cast in Sand Molds. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1933-1940.	2.1	5
15	Design and Development of P/M Fe-P Based Magnetic Friction Material. <i>Physics of Metals and Metallography</i> , 2020, 121, 439-445.	1.0	0
16	Stabilizing Oxygen Vacancy in Entropy-Engineered CoFe ₂ O ₄ -Type Catalysts for Co-prosperity of Efficiency and Stability in an Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32548-32555.	8.0	105
17	Co-Free High-Entropy Alloys Powders Immobilized by Electrospray and Microfluidics for Decolorization of Azo Dye. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1103-1110.	2.9	5
18	FeCoNiCr _{0.5} Al _x High-Entropy Alloys with Dual-Phase Solidification Microstructure and High Compressive Properties. <i>Jom</i> , 2019, 71, 3460-3465.	1.9	4

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19	Novel and promising electrocatalyst for oxygen evolution reaction based on MnFeCoNi high entropy alloy. <i>Journal of Power Sources</i> , 2019, 430, 104-111.	7.8	164
20	CoCrFeNi Multi-principal Element Alloy Prepared Via Self-propagating High-Temperature Synthesis Plus Investment Casting Method. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 32-35.	2.1	1
21	Microstructure and properties of CrMnFeCoNi high-entropy alloy prepared by mechanical alloying and spark plasma sintering. <i>Powder Metallurgy</i> , 2019, 62, 38-43.	1.7	8
22	Azo dye degradation behavior of AlFeMnTiM (M = Cr, Co, Ni) high-entropy alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 124-132.	4.9	38
23	Nanocrystalline NiS particles synthesized by mechanical alloying as a promising oxygen evolution electrocatalyst. <i>Materials Letters</i> , 2018, 218, 115-118.	2.6	18
24	Effects of Ti and La Additions on the Microstructures and Mechanical Properties of B-Refined and Sr-Modified Al-11Si Alloys. <i>Metals and Materials International</i> , 2018, 24, 1133-1142.	3.4	12
25	Rapid decoloration of azo dye Direct Blue 6 by AlCrFeMn high entropy alloy. <i>RSC Advances</i> , 2018, 8, 41347-41354.	3.6	13
26	Synergistic effects of composition and heat treatment on microstructure and properties of vacuum die cast Al-Si-Mg-Mn alloys. <i>China Foundry</i> , 2018, 15, 117-123.	1.4	5
27	Highly catalytical performance of nanoporous copper for electro-oxidation of methanol in alkaline media. <i>Materials Chemistry and Physics</i> , 2018, 218, 108-115.	4.0	22
28	Application of Al-2La-1B Grain Refiner to Al-10Si-0.3Mg Casting Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2838-2843.	2.5	6
29	Efficient photodecomposition of rhodamine B by an Fe-based metallic glass in an oxalic acid solution. <i>RSC Advances</i> , 2016, 6, 92411-92416.	3.6	5
30	Effects of La addition on the microstructure and tensile properties of Al-Si-Cu-Mg casting alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 405-410.	4.9	30
31	Effects of combinative addition of lanthanum and boron on grain refinement of Al-Si casting alloys. <i>Materials & Design</i> , 2014, 64, 423-426.	5.1	55