

Jie Dang

List of Publications by Year in descending order

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61
papers

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citations

331259

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#	ARTICLE	IF	CITATIONS
1	Co ²⁺ -Constructing Interfaces of Multiheterostructure on MXene (Ti ₃ C ₂ T _x)-Modified 3D Self-Supporting Electrode for Ultraefficient Electrocatalytic HER in Alkaline Media. <i>Advanced Functional Materials</i> , 2021, 31, 2102576.	7.8	97
2	Kinetics and mechanism of hydrogen reduction of MoO ₃ to MoO ₂ . <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 41, 216-223.	1.7	96
3	A novel method for removing organic sulfur from high-sulfur coal: Migration of organic sulfur during microwave treatment with NaOH-H ₂ O ₂ . <i>Fuel</i> , 2021, 289, 119800.	3.4	70
4	A novel recycling approach for efficient extraction of titanium from high-titanium-bearing blast furnace slag. <i>Waste Management</i> , 2021, 120, 626-634.	3.7	64
5	Co-Doped Ni ₃ N Nanosheets with Electron Redistribution as Bifunctional Electrocatalysts for Efficient Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1581-1587.	2.1	62
6	Oxidation roasting of molybdenite concentrate. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 4167-4174.	1.7	54
7	Study on kinetics of hydrogen reduction of MoO ₃ . <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 41, 356-362.	1.7	52
8	Synergetic Effect of Ni ₂ P and MXene Enhances Catalytic Activity in the Hydrogen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 1604-1611.	1.9	52
9	Induction of Co ₂ P Growth on a MXene (Ti ₃ C ₂ T _x)-Modified Self-Supporting Electrode for Efficient Overall Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4841-4848.	2.1	47
10	Kinetics and mechanism of hydrogen reduction of ilmenite powders. <i>Journal of Alloys and Compounds</i> , 2015, 619, 443-451.	2.8	45
11	A Summary of Corrosion Properties of Al-Rich Solid Solution and Secondary Phase Particles in Al Alloys. <i>Metals</i> , 2017, 7, 84.	1.0	43
12	Structural transformation of fluid phase extracted from coal matrix during thermoplastic stage of coal pyrolysis. <i>Fuel</i> , 2018, 232, 374-383.	3.4	40
13	Nitrogen-Doped MoS ₂ /Ti ₃ C ₂ T _x Heterostructures as Ultra-Efficient Alkaline HER Electrocatalysts. <i>Inorganic Chemistry</i> , 2021, 60, 9932-9940.	1.9	37
14	Effect of basicity on the crystallization behavior of TiO ₂ -CaO-SiO ₂ ternary system slag. <i>CrystEngComm</i> , 2018, 20, 5422-5431.	1.3	33
15	Reduction Kinetics of Metal Oxides by Hydrogen. <i>Steel Research International</i> , 2013, 84, 526-533.	1.0	31
16	A new Ti ₂ V _{0.9} Cr _{0.1} C ₂ T _x MXene with ultrahigh gravimetric capacitance. <i>Nano Energy</i> , 2022, 96, 107129.	8.2	31
17	Reduction Kinetics of Hematite Powder in Hydrogen Atmosphere at Moderate Temperatures. <i>Metals</i> , 2018, 8, 751.	1.0	29
18	Effect of preoxidation on the reduction of ilmenite concentrate powder by hydrogen. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4031-4040.	3.8	28

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19	MoS ₂ /Co ₉ S ₈ /MoC heterostructure connected by carbon nanotubes as electrocatalyst for efficient hydrogen evolution reaction. <i>Journal of Materials Science and Technology</i> , 2021, 79, 29-34.	5.6	28
20	The preparation of tungsten carbides and tungsten powders by reaction of tungsten trioxide with methanol. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 76, 99-107.	1.7	27
21	Designed synthesis of WC-based nanocomposites as low-cost, efficient and stable electrocatalysts for the hydrogen evolution reaction. <i>CrystEngComm</i> , 2020, 22, 4580-4590.	1.3	25
22	Metal-Organic-Framework-Derived Cobalt nanoparticles encapsulated in Nitrogen-Doped carbon nanotubes on Ni foam integrated Electrode: Highly electroactive and durable catalysts for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 38-46.	5.0	23
23	Synthesis of Titanium Oxycarbide from Titanium Slag by Methane-Containing Gas. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 123-131.	1.0	21
24	Study on Reduction of MoO ₂ Powders with CO to Produce Mo ₂ C. <i>Journal of the American Ceramic Society</i> , 2016, 99, 819-824.	1.9	19
25	Preparation of tungsten carbides by reducing and carbonizing WO ₂ with CO. <i>Journal of Alloys and Compounds</i> , 2018, 745, 421-429.	2.8	19
26	Reduction of perovskite-geikielite by methane-hydrogen gas mixture: Thermodynamic analysis and experimental results. <i>Science of the Total Environment</i> , 2020, 699, 134355.	3.9	19
27	Phase Transitions and Morphology Evolutions during Hydrogen Reduction of MoO ₃ to MoO ₂ . <i>High Temperature Materials and Processes</i> , 2014, 33, 305-312.	0.6	18
28	Kinetics of Reduction of Titano-magnetite Powder by H ₂ . <i>High Temperature Materials and Processes</i> , 2013, 32, 229-236.	0.6	17
29	A Morphological Study of the Reduction of MoO ₂ by Hydrogen. <i>High Temperature Materials and Processes</i> , 2015, 34, .	0.6	16
30	Study on hydrogen reduction of Mo ₄ O ₁₁ . <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 51, 275-281.	1.7	16
31	Synthesis of Titanium Oxycarbide from Concentrates of Natural Ilmenite (Weathered and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <i>Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2440-2446.	1.0	16
32	Thermodynamic and experimental study on the reduction and carbonization of TiO ₂ through gas-solid reaction. <i>International Journal of Energy Research</i> , 2019, 43, 4253-4263.	2.2	13
33	Isothermal kinetics of carbothermic reduction of ilmenite concentrate with the addition of sodium carbonate. <i>Powder Technology</i> , 2021, 392, 14-22.	2.1	13
34	Two-Dimensional Porous Structure of V-Doped NiO with Enhanced Electrochromic Properties. <i>ACS Omega</i> , 2022, 7, 8960-8967.	1.6	13
35	Innovative evaluation of CO-H ₂ interaction during gaseous wustite reduction controlled by external gas diffusion. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14047-14057.	3.8	12
36	Effect of yttrium on morphologies and size of tungsten carbide particles prepared through CO reduction. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10166-10174.	2.6	11

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37	Non-isothermal reduction kinetics of titanomagnetite by hydrogen. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 1134-1140.	2.4	10
38	Influence of TiO ₂ addition on the structure and metallurgical properties of coke. International Journal of Coal Preparation and Utilization, 2021, 41, 521-537.	1.2	10
39	Tuning the Electronic Structure of the CoP/Ni ₂ P Nanostructure by Nitrogen Doping for an Efficient Hydrogen Evolution Reaction in Alkaline Media. Inorganic Chemistry, 2021, 60, 18544-18552.	1.9	10
40	A Model for the Reduction of Metal Oxides by Carbon Monoxide. ISIJ International, 2018, 58, 585-593.	0.6	9
41	Effect of Y(NO ₃) ₃ additive on morphologies and size of metallic W particles produced by hydrogen reduction. Advanced Powder Technology, 2019, 30, 2768-2778.	2.0	9
42	Synthesis of titanium oxycarbide in TiO ₂ -C-H ₂ system. Materials Chemistry and Physics, 2020, 252, 123272.	2.0	9
43	Synthesis of Ti(C, O, N) from ilmenite at low temperature by a novel reducing and carbonitriding approach. International Journal of Energy Research, 2020, 44, 4861-4874.	2.2	9
44	Gas-based reduction and carbonization of titanium minerals in titanium-bearing blast furnace slag: A combined thermodynamic, experimental and DFT study. International Journal of Hydrogen Energy, 2022, 47, 7586-7599.	3.8	9
45	Recent Advances in Inorganic Electrochromic Materials from Synthesis to Applications: Critical Review on Functional Chemistry and Structure Engineering. Chemistry - an Asian Journal, 2022, 17, .	1.7	8
46	Preparation of Mo ₂ C by reduction and carbonization of MoO ₂ with CH ₃ OH. Journal of Materials Science, 2018, 53, 10059-10070.	1.7	6
47	Production of different morphologies and size of metallic W particles through hydrogen reduction. Journal of Materials Research and Technology, 2019, 8, 4687-4698.	2.6	6
48	Synthesis of Ti(C, N, O) ceramic from rutile at low temperature by CH ₄ -H ₂ -N ₂ gas mixture. International Journal of Refractory Metals and Hard Materials, 2021, 101, 105659.	1.7	5
49	P-doped MoS ₂ /Ni ₂ P/Ti ₃ C ₂ T _x heterostructures for efficient hydrogen evolution reaction in alkaline media. Journal of the American Ceramic Society, 2022, 105, 6096-6104.	1.9	5
50	A new kinetic model for hydrogen reduction of metal oxides under external gas diffusion controlling condition. International Journal of Refractory Metals and Hard Materials, 2018, 77, 90-96.	1.7	4
51	Effect of Sintering Temperature on Microstructure and Mechanical Properties of Hot-Pressed Fe/FeAl ₂ O ₄ Composite. Crystals, 2021, 11, 422.	1.0	4
52	Investigation on the Ionic Composition and Spectroscopic Properties of Molten NaF-AlF ₃ -Al ₂ O ₃ Salts at 1300 K. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 474-484.	1.0	4
53	Oxygen Potential of High-Titania Slag from the Smelting Process of Ilmenite. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1841-1851.	1.0	3
54	Mathematical modeling of the reaction of metal oxides with methane. RSC Advances, 2020, 10, 11233-11243.	1.7	3

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55	Effect of salt-assisted reduction method on morphologies and size of metallic tungsten particles. Transactions of Nonferrous Metals Society of China, 2020, 30, 3133-3146.	1.7	3
56	Effect of Fe on the Microstructure and Mechanical Properties of Fe/FeAl ₂ O ₄ Cermet Prepared by Hot Press Sintering. Crystals, 2021, 11, 204.	1.0	2
57	Controllable Electrodeposition Adjusts the Electrochromic Properties of Co and Mo Co-Modified WO ₃ Films. Crystals, 2022, 12, 190.	1.0	2
58	The Crystallization Behavior of TiO ₂ -CaO-SiO ₂ -Al ₂ O ₃ -MgO Pentabasic Slag with a Basicity of 1.1~1.4. Crystals, 2021, 11, 583.	1.0	1
59	Crystallization and Carbonization of TiO ₂ -CaO-SiO ₂ Ternary Slag. Minerals, Metals and Materials Series, 2020, , 335-345.	0.3	1
60	Metallurgical Slag. Crystals, 2022, 12, 407.	1.0	1
61	Thermodynamic Analysis and Reduction of Anosovite with Methane at Low Temperature. Minerals, Metals and Materials Series, 2020, , 285-294.	0.3	0