

# Jie Dang

## List of Publications by Year in descending order

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61  
papers

1,370  
citations

331259

21  
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377514

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docs citations

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times ranked

762  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Investigation on the Ionic Composition and Spectroscopic Properties of Molten NaF-AlF <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Salts at 1300 K. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 474-484.	1.0	4
3	Controllable Electrodeposition Adjusts the Electrochromic Properties of Co and Mo Co-Modified WO <sub>3</sub> Films. <i>Crystals</i> , 2022, 12, 190.	1.0	2
4	Gas-based reduction and carbonization of titanium minerals in titanium-bearing blast furnace slag: A combined thermodynamic, experimental and DFT study. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7586-7599.	3.8	9
5	Two-Dimensional Porous Structure of V-Doped NiO with Enhanced Electrochromic Properties. <i>ACS Omega</i> , 2022, 7, 8960-8967.	1.6	13
6	Metallurgical Slag. <i>Crystals</i> , 2022, 12, 407.	1.0	1
7	Recent Advances in Inorganic Electrochromic Materials from Synthesis to Applications: Critical Review on Functional Chemistry and Structure Engineering. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	8
8	A new Ti <sub>2</sub> V <sub>0.9</sub> Cr <sub>0.1</sub> C <sub>2</sub> T <sub>x</sub> MXene with ultrahigh gravimetric capacitance. <i>Nano Energy</i> , 2022, 96, 107129.	8.2	31
9	P-doped MoS <sub>2</sub> /Ni <sub>2</sub> P/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> heterostructures for efficient hydrogen evolution reaction in alkaline media. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6096-6104.	1.9	5
10	Influence of TiO <sub>2</sub> addition on the structure and metallurgical properties of coke. <i>International Journal of Coal Preparation and Utilization</i> , 2021, 41, 521-537.	1.2	10
11	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
12	MoS <sub>2</sub> /Co <sub>9</sub> S <sub>8</sub> /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
13	Synergetic Effect of Ni <sub>2</sub> P and MXene Enhances Catalytic Activity in the Hydrogen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 1604-1611.	1.9	52
14	Co-Doped Ni <sub>3</sub> 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
15	Effect of Fe on the Microstructure and Mechanical Properties of Fe/FeAl <sub>2</sub> O <sub>4</sub> Cermet Prepared by Hot Press Sintering. <i>Crystals</i> , 2021, 11, 204.	1.0	2
16	Effect of Sintering Temperature on Microstructure and Mechanical Properties of Hot-Pressed Fe/FeAl <sub>2</sub> O <sub>4</sub> Composite. <i>Crystals</i> , 2021, 11, 422.	1.0	4
17	A novel method for removing organic sulfur from high-sulfur coal: Migration of organic sulfur during microwave treatment with NaOH-H <sub>2</sub> O <sub>2</sub> . <i>Fuel</i> , 2021, 289, 119800.	3.4	70
18	Co-Constructing Interfaces of Multiheterostructure on MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> )-Modified 3D Self-Supporting Electrode for Ultraefficient Electrocatalytic HER in Alkaline Media. <i>Advanced Functional Materials</i> , 2021, 31, 2102576.	7.8	97

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19	The Crystallization Behavior of TiO <sub>2</sub> -CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -MgO Pentabasic Slag with a Basicity of 1.1–1.4. Crystals, 2021, 11, 583.	1.0	1
20	Induction of Co <sub>2</sub> P Growth on a MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> )-Modified Self-Supporting Electrode for Efficient Overall Water Splitting. Journal of Physical Chemistry Letters, 2021, 12, 4841-4848.	2.1	47
21	Nitrogen-Doped MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Heterostructures as Ultra-Efficient Alkaline HER Electrocatalysts. Inorganic Chemistry, 2021, 60, 9932-9940.	1.9	37
22	Isothermal kinetics of carbothermic reduction of ilmenite concentrate with the addition of sodium carbonate. Powder Technology, 2021, 392, 14-22.	2.1	13
23	Synthesis of Ti(C, N, O) ceramic from rutile at low temperature by CH <sub>4</sub> -H <sub>2</sub> -N <sub>2</sub> gas mixture. International Journal of Refractory Metals and Hard Materials, 2021, 101, 105659.	1.7	5
24	Tuning the Electronic Structure of the CoP/Ni <sub>2</sub> P Nanostructure by Nitrogen Doping for an Efficient Hydrogen Evolution Reaction in Alkaline Media. Inorganic Chemistry, 2021, 60, 18544-18552.	1.9	10
25	Reduction of perovskite-geikielite by methane–hydrogen gas mixture: Thermodynamic analysis and experimental results. Science of the Total Environment, 2020, 699, 134355.	3.9	19
26	Effect of yttrium on morphologies and size of tungsten carbide particles prepared through CO reduction. Journal of Materials Research and Technology, 2020, 9, 10166-10174.	2.6	11
27	Synthesis of titanium oxycarbide in TiO <sub>2</sub> -C-H <sub>2</sub> system. Materials Chemistry and Physics, 2020, 252, 123272.	2.0	9
28	Mathematical modeling of the reaction of metal oxides with methane. RSC Advances, 2020, 10, 11233-11243.	1.7	3
29	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
30	Designed synthesis of WC-based nanocomposites as low-cost, efficient and stable electrocatalysts for the hydrogen evolution reaction. CrystEngComm, 2020, 22, 4580-4590.	1.3	25
31	Crystallization and Carbonization of TiO <sub>2</sub> -CaO-SiO <sub>2</sub> Ternary Slag. Minerals, Metals and Materials Series, 2020, , 335-345.	0.3	1
32	Thermodynamic Analysis and Reduction of Anosovite with Methane at Low Temperature. Minerals, Metals and Materials Series, 2020, , 285-294.	0.3	0
33	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
34	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
35	Effect of Y(NO <sub>3</sub> ) <sub>3</sub> additive on morphologies and size of metallic W particles produced by hydrogen reduction. Advanced Powder Technology, 2019, 30, 2768-2778.	2.0	9
36	Effect of preoxidation on the reduction of ilmenite concentrate powder by hydrogen. International Journal of Hydrogen Energy, 2019, 44, 4031-4040.	3.8	28

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37	Thermodynamic and experimental study on the reduction and carbonization of TiO <sub>2</sub> through gas-solids reaction. International Journal of Energy Research, 2019, 43, 4253-4263.	2.2	13
38	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
39	A Model for the Reduction of Metal Oxides by Carbon Monoxide. ISIJ International, 2018, 58, 585-593.	0.6	9
40	Preparation of Mo <sub>2</sub> C by reduction and carbonization of MoO <sub>2</sub> with CH <sub>3</sub> OH. Journal of Materials Science, 2018, 53, 10059-10070.	1.7	6
41	Preparation of tungsten carbides by reducing and carbonizing WO <sub>2</sub> with CO. Journal of Alloys and Compounds, 2018, 745, 421-429.	2.8	19
42	Synthesis of Titanium Oxycarbide from Titanium Slag by Methane-Containing Gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 123-131.	1.0	21
43	Reduction Kinetics of Hematite Powder in Hydrogen Atmosphere at Moderate Temperatures. Metals, 2018, 8, 751.	1.0	29
44	Effect of basicity on the crystallization behavior of TiO <sub>2</sub> -CaO-SiO <sub>2</sub> ternary system slag. CrystEngComm, 2018, 20, 5422-5431.	1.3	33
45	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
46	Structural transformation of fluid phase extracted from coal matrix during thermoplastic stage of coal pyrolysis. Fuel, 2018, 232, 374-383.	3.4	40
47	The preparation of tungsten carbides and tungsten powders by reaction of tungsten trioxide with methanol. International Journal of Refractory Metals and Hard Materials, 2018, 76, 99-107.	1.7	27
48	Innovative evaluation of CO-H <sub>2</sub> interaction during gaseous wustite reduction controlled by external gas diffusion. International Journal of Hydrogen Energy, 2017, 42, 14047-14057.	3.8	12
49	Synthesis of Titanium Oxycarbide from Concentrates of Natural Ilmenite (Weathered and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2440-2446.	1.0	16
50	A Summary of Corrosion Properties of Al-Rich Solid Solution and Secondary Phase Particles in Al Alloys. Metals, 2017, 7, 84.	1.0	43
51	Study on Reduction of MoO <sub>2</sub> Powders with CO to Produce Mo <sub>2</sub> C. Journal of the American Ceramic Society, 2016, 99, 819-824.	1.9	19
52	A Morphological Study of the Reduction of MoO <sub>2</sub> by Hydrogen. High Temperature Materials and Processes, 2015, 34, .	0.6	16
53	Oxidation roasting of molybdenite concentrate. Transactions of Nonferrous Metals Society of China, 2015, 25, 4167-4174.	1.7	54
54	Study on hydrogen reduction of Mo <sub>4</sub> O <sub>11</sub> . International Journal of Refractory Metals and Hard Materials, 2015, 51, 275-281.	1.7	16

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55	Kinetics and mechanism of hydrogen reduction of ilmenite powders. Journal of Alloys and Compounds, 2015, 619, 443-451.	2.8	45
56	Phase Transitions and Morphology Evolutions during Hydrogen Reduction of MoO <sub>3</sub> to MoO <sub>2</sub> . High Temperature Materials and Processes, 2014, 33, 305-312.	0.6	18
57	Kinetics and mechanism of hydrogen reduction of MoO <sub>3</sub> to MoO <sub>2</sub> . International Journal of Refractory Metals and Hard Materials, 2013, 41, 216-223.	1.7	96
58	Non-isothermal reduction kinetics of titanomagnetite by hydrogen. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 1134-1140.	2.4	10
59	Study on kinetics of hydrogen reduction of MoO <sub>2</sub> . International Journal of Refractory Metals and Hard Materials, 2013, 41, 356-362.	1.7	52
60	Reduction Kinetics of Metal Oxides by Hydrogen. Steel Research International, 2013, 84, 526-533.	1.0	31
61	Kinetics of Reduction of Titano-magnetite Powder by H <sub>2</sub> . High Temperature Materials and Processes, 2013, 32, 229-236.	0.6	17