

Mamdouh Omran

List of Publications by Year in descending order

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304602

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docs citations

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times ranked

822
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#	ARTICLE	IF	CITATIONS
1	The productive preparation of synthetic rutile from titanium slag via an improved microwave heating and acid-alkali joint leaching approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 172, 108773.	1.8	7
2	Investigations on the Thermodynamics Characteristics, Thermal and Dielectric Properties of Calcium-Activated Zinc-Containing Metallurgical Residues. <i>Materials</i> , 2022, 15, 714.	1.3	1
3	Development of Cold-Bonded Briquettes Using By-Product-Based Ettringite Binder from Ladle Slag. <i>Journal of Sustainable Metallurgy</i> , 2022, 8, 468-487.	1.1	6
4	Preparation of nano-sized $6\text{MgO} \cdot 2\text{Y}_2\text{O}_3 \cdot \text{ZrO}_2$ powders by a combined co-precipitation and high energy ball milling process. <i>Ceramics International</i> , 2022, 48, 19166-19173.	2.3	7
5	Microwave-enhanced reduction of manganese from a low-grade pyrolusite ore using pyrite: process optimization and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 58915-58926.	2.7	4
6	Modeling of process and analysis of drying characteristics for natural TiO_2 under microwave heating. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 174, 108900.	1.8	12
7	Crystal structure and morphology of CeO_2 doped stabilized zirconia ceramics under high-frequency microwave field sintering. <i>Ceramics International</i> , 2022, 48, 10547-10554.	2.3	7
8	Microwave-assisted preparation of nanocluster rutile TiO_2 from titanium slag by NaOH-KOH mixture activation. <i>Advanced Powder Technology</i> , 2022, 33, 103549.	2.0	10
9	Co-precipitation of nano $\text{Mg} \cdot \text{Y}/\text{ZrO}_2$ ternary oxide eutectic system: Effects of calcination temperature. <i>Ceramics International</i> , 2022, 48, 23452-23459.	2.3	7
10	Rapid Preparation of Manganese Monoxide by Microwave-Enhanced Selective Carbothermal Reduction. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	0
11	Preparation of nano zirconia by binary doping: Effect of controlled sintering on structure and phase transformation. <i>Ceramics International</i> , 2022, 48, 25374-25381.	2.3	5
12	Drying characteristics of ammonium polyvanadate under microwave heating based on a thin-layer drying kinetics fitting model. <i>Journal of Materials Research and Technology</i> , 2022, 19, 1497-1509.	2.6	15
13	Enhancement effects of distiller's dried grains as reducing agents on the kinetics and leaching of pyrolusite from manganese ore. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4270-4281.	2.6	5
14	Study on drying kinetics of calcium oxide doped zirconia by microwave-assisted drying. <i>Ceramics International</i> , 2022, 48, 30430-30440.	2.3	9
15	Comparative Study on the Isothermal Reduction Kinetics of Iron Oxide Pellet Fines with Carbon-Bearing Materials. <i>Sustainability</i> , 2022, 14, 8647.	1.6	0
16	Isothermal and Non-Isothermal Reduction Behaviors of Iron Ore Compacts in Pure Hydrogen Atmosphere and Kinetic Analysis. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 81-93.	0.4	9
17	Kinetics characteristics and microwave reduction behavior of walnut shell-pyrolusite blends. <i>Bioresource Technology</i> , 2021, 319, 124172.	4.8	64
18	Phase stability and microstructure morphology of microwave-sintered magnesia-partially stabilised zirconia. <i>Ceramics International</i> , 2021, 47, 4076-4082.	2.3	21

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19	Optimisation on the stability of CaO-doped partially stabilised zirconia by microwave heating. <i>Ceramics International</i> , 2021, 47, 8067-8074.	2.3	39
20	Microwave-assisted method investigation for the selective and enhanced leaching of manganese from low-grade pyrolusite using pyrite as the reducing agent. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 159, 108209.	1.8	29
21	The adsorption removal of tannic acid by regenerated activated carbon from the spent catalyst of vinyl acetate synthesis. <i>Journal of Materials Research and Technology</i> , 2021, 10, 697-708.	2.6	9
22	Study on thermochemical characteristics properties and pyrolysis kinetics of the mixtures of waste corn stalk and pyrolusite. <i>Bioresource Technology</i> , 2021, 324, 124660.	4.8	36
23	Research on microwave drying technology in the procedure of preparation of V ₂ O ₅ from ammonium polyvanadate (APV). <i>Advanced Powder Technology</i> , 2021, 32, 2530-2542.	2.0	10
24	Study of an Organic Binder of Cold-Bonded Briquettes with Two Different Iron Bearing Materials. <i>Materials</i> , 2021, 14, 2952.	1.3	7
25	Phase microstructure and morphology evolution of MgO-PSZ ceramics during the microwave sintering process. <i>Ceramics International</i> , 2021, 47, 15849-15858.	2.3	11
26	Research Status and Progress of Microwave Associated Leaching. <i>Current Microwave Chemistry</i> , 2021, 8, 7-11.	0.2	2
27	Non-Isothermal Reduction Kinetics of Iron Ore Fines with Carbon-Bearing Materials. <i>Metals</i> , 2021, 11, 1137.	1.0	9
28	Optimisation on the microwave drying of ammonium polyvanadate (APV)- based on a kinetic study. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1056-1067.	2.6	14
29	A Review of Microwave Synthesis of Zirconia Composite Ceramics. <i>Current Microwave Chemistry</i> , 2021, 8, 17-21.	0.2	0
30	Drying kinetics and microstructure evolution of nano-zirconia under microwave pretreatment. <i>Ceramics International</i> , 2021, 47, 22530-22539.	2.3	15
31	Effect of microwave heating duration on the stability of the partially stabilised zirconia doped with CaO. <i>Ceramics International</i> , 2021, 47, 22447-22460.	2.3	6
32	Controlled sintering and phase transformation of yttria-doped tetragonal zirconia polycrystal material. <i>Ceramics International</i> , 2021, 47, 27188-27194.	2.3	23
33	Stability properties and microstructure properties of microwave-sintered CeO ₂ doped zirconia ceramics. <i>Ceramics International</i> , 2021, 47, 28210-28217.	2.3	11
34	Dielectric characterisation and reduction properties of the blending mixtures of low-grade pyrolusite and waste corn stalks in the microwave field. <i>Fuel</i> , 2021, 305, 121546.	3.4	16
35	Improving Zinc Recovery from Steelmaking Dust by Switching from Conventional Heating to Microwave Heating. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 15-26.	1.1	11
36	Enhanced Leaching of Zinc from Zinc-Containing Metallurgical Residues via Microwave Calcium Activation Pretreatment. <i>Metals</i> , 2021, 11, 1922.	1.0	4

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37	Dielectric properties and thermal behavior of electrolytic manganese anode mud in microwave field. <i>Journal of Hazardous Materials</i> , 2020, 384, 121227.	6.5	61
38	One-step preparation of CaO-doped partially stabilized zirconia from fused zirconia. <i>Ceramics International</i> , 2020, 46, 6484-6490.	2.3	34
39	Simultaneous removal of Cr(III) and V(V) and enhanced synthesis of high-grade rutile TiO ₂ based on sodium carbonate decomposition. <i>Journal of Hazardous Materials</i> , 2020, 388, 122039.	6.5	22
40	The controlled preparation and stability mechanism of partially stabilized zirconia by microwave intensification. <i>Ceramics International</i> , 2020, 46, 7523-7530.	2.3	24
41	Efficiency and sustainable leaching process of manganese from pyrolusite-pyrite mixture in sulfuric acid systems enhanced by microwave heating. <i>Hydrometallurgy</i> , 2020, 198, 105519.	1.8	24
42	Dielectric properties and high temperature thermochemical properties of the pyrolusite-pyrite mixture during reduction roasting. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13128-13136.	2.6	19
43	Thermal and Mass Spectroscopic Analysis of BF and BOF Sludges: Study of Their Behavior under Air and Inert Atmosphere. <i>Metals</i> , 2020, 10, 397.	1.0	3
44	Modeling and kinetics study of microwave heat drying of low grade manganese ore. <i>Advanced Powder Technology</i> , 2020, 31, 2901-2911.	2.0	29
45	Influence of H ₂ O Content on the Reduction of Acid Iron Ore Pellets in a CO-N ₂ Reducing Atmosphere. <i>ISIJ International</i> , 2020, 60, 2206-2217.	0.6	22
46	Microwave catalyzed carbothermic reduction of zinc oxide and zinc ferrite: effect of microwave energy on the reaction activation energy. <i>RSC Advances</i> , 2020, 10, 23959-23968.	1.7	16
47	Highly efficient oxidation of Panzhihua titanium slag for manufacturing welding grade rutile titanium dioxide. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7079-7086.	2.6	21
48	Investigation on microwave carbothermal reduction behavior of low-grade pyrolusite. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7862-7869.	2.6	22
49	Microstructure and enhanced volume density properties of FeMn78C8.0 alloy prepared via a cleaner microwave sintering approach. <i>Journal of Cleaner Production</i> , 2020, 262, 121364.	4.6	22
50	Crystal structure and thermomechanical properties of CaO-PSZ ceramics synthesised from fused ZrO ₂ . <i>Ceramics International</i> , 2020, 46, 15357-15363.	2.3	9
51	Synthesis of rutile TiO ₂ powder by microwave-enhanced roasting followed by hydrochloric acid leaching. <i>Advanced Powder Technology</i> , 2020, 31, 1140-1147.	2.0	20
52	Investigations on the microwave absorption properties and thermal behavior of vanadium slag: Improvement in microwave oxidation roasting for recycling vanadium and chromium. <i>Journal of Hazardous Materials</i> , 2020, 395, 122698.	6.5	46
53	Efficient improvement for dissociation behavior and thermal decomposition of manganese ore by microwave calcination. <i>Journal of Cleaner Production</i> , 2020, 260, 121074.	4.6	39
54	Stability properties and structural characteristics of CaO-partially stabilized zirconia ceramics synthesized from fused ZrO ₂ by microwave sintering. <i>Ceramics International</i> , 2020, 46, 16842-16848.	2.3	16

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55	Stability optimisation of CaO-doped partially stabilised zirconia by microwave sintering. <i>Ceramics International</i> , 2019, 45, 23278-23282.	2.3	21
56	High-temperature dielectric properties and pyrolysis reduction characteristics of different biomass-pyrolusite mixtures in microwave field. <i>Bioresource Technology</i> , 2019, 294, 122217.	4.8	75
57	Selective Zinc Removal from Electric Arc Furnace (EAF) Dust by Using Microwave Heating. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 331-340.	1.1	29
58	Microwave absorption properties of steelmaking dusts: effects of temperature on the dielectric constant (ϵ') and loss factor (ϵ'') at 1064 MHz and 2423 MHz. <i>RSC Advances</i> , 2019, 9, 6859-6870. ⁸	1.7	8
59	Utilization of blast furnace sludge for the removal of zinc from steelmaking dusts using microwave heating. <i>Separation and Purification Technology</i> , 2019, 210, 867-884.	3.9	56
60	Improved removal of zinc from blast furnace sludge by particle size separation and microwave heating. <i>Minerals Engineering</i> , 2018, 127, 265-276.	1.8	25
61	Effect of steelmaking dust characteristics on suitable recycling process determining: Ferrochrome converter (CRC) and electric arc furnace (EAF) dusts. <i>Powder Technology</i> , 2017, 308, 47-60.	2.1	46
62	Dielectric properties and carbothermic reduction of zinc oxide and zinc ferrite by microwave heating. <i>Royal Society Open Science</i> , 2017, 4, 170710.	1.1	24
63	Treatment of blast furnace sludge (BFS) using a microwave heating technique. <i>Ironmaking and Steelmaking</i> , 2017, 44, 619-629.	1.1	11
64	Mineralogy, geochemistry and the origin of high-phosphorus oolitic iron ores of Aswan, Egypt. <i>Ore Geology Reviews</i> , 2017, 80, 185-199.	1.1	30
65	Effect of Blast Furnace Sludge (BFS) Characteristics on Suitable Recycling Process Determining. <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2017, 05, 185-197.	0.1	8
66	Improvement of phosphorus removal from iron ore using combined microwave pretreatment and ultrasonic treatment. <i>Separation and Purification Technology</i> , 2015, 156, 724-737.	3.9	49
67	XPS and FTIR spectroscopic study on microwave treated high phosphorus iron ore. <i>Applied Surface Science</i> , 2015, 345, 127-140.	3.1	127
68	Thermally assisted liberation of high phosphorus oolitic iron ore: A comparison between microwave and conventional furnaces. <i>Powder Technology</i> , 2015, 269, 7-14.	2.1	102
69	Effect of microwave pre-treatment on the magnetic properties of iron ore and its implications on magnetic separation. <i>Separation and Purification Technology</i> , 2014, 136, 223-232.	3.9	76
70	Effect of Metallurgical Waste Properties on Determining Suitable Recycling Method. <i>Key Engineering Materials</i> , 0, 835, 297-305.	0.4	0
71	Suitability of Self-Reducing and Slag-Forming Briquettes for EAF Use based on Laboratory Tests. <i>Steel Research International</i> , 0, , 2100472.	1.0	1