Xiao-lin Pan

List of Publications by Year
in descending order

34 papers	429 citations	840119 11 h-index	794141 19 g-index
36 all docs	36 docs citations	36 times ranked	250 citing authors

#	Article	IF	Citations
1	Synergistic removal of calcium and iron impurities from calcium-rich and high-alumina fly ash by acid leaching control. Journal of Environmental Chemical Engineering, 2022, 10, 107268.	3.3	8
2	Effect of Na2O on transition and stability of dicalcium silicate based on sintering process. Journal of Central South University, 2022, 29, 1161-1172.	1.2	3
3	Formation characteristics of sodium calcium silicate compounds based on the solid-state reaction. Ceramics International, 2022, , .	2.3	0
4	Preparation of ultra-lightweight ceramsite from red mud and immobilization of hazardous elements. Journal of Environmental Chemical Engineering, 2022, 10, 108157.	3.3	23
5	Formation and transition of sodium calcium silicate compounds in the presence of alumina based on solid-state reaction. Materials Today Chemistry, 2022, 26, 101035.	1.7	0
6	Effect of Carbonate on Desilication of Sodium Aluminate Solution at High Temperature. Jom, 2021, 73, 1180-1187.	0.9	2
7	Hydrothermal formation mechanism of the efficient desilication product hydroandradite (3CaOÂ·Fe2O3Â·xSiO2Â·(6-2x)H2O). Hydrometallurgy, 2021, 203, 105695.	1.8	6
8	A novel process to fully utilize red mud based on low-calcium sintering. Journal of Environmental Chemical Engineering, 2021, 9, 106754.	3.3	18
9	Precipitation of desilication products in CaO-Na2O-Al2O3-SiO2-H2O system based on the Bayer process. Hydrometallurgy, 2020, 197, 105469.	1.8	9
10	Mineral transition and formation mechanism of calcium aluminate compounds in CaO-Al2O3-Na2O system during high-temperature sintering. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 924-932.	2.4	11
11	Crystallization and phase transition of tobermorite synthesized by hydrothermal reaction from dicalcium silicate. International Journal of Applied Ceramic Technology, 2020, 17, 1213-1223.	1.1	13
12	Formation and transition of calcium aluminate and calcium silicate compounds from pre-synthesized mullite in low-calcium system by solid-state reaction. Ceramics International, 2020, 46, 16583-16589.	2.3	10
13	Effect of oxalate on seed precipitation of gibbsite from sodium aluminate solution. Journal of Central South University, 2020, 27, 772-779.	1.2	8
14	Formation behavior of tricalcium aluminate hexahydrate in synthetic sodium aluminate solution with high alkali concentration and caustic ratio. Hydrometallurgy, 2020, 195, 105373.	1.8	4
15	Formation kinetics and transition mechanism of CaOÂ·SiO2 in low-calcium system during high-temperature sintering. Journal of Central South University, 2020, 27, 3269-3277.	1.2	9
16	Effect of P addition on mineral transition of CaO-Al2O3-SiO2 system during high-temperature sintering. Transactions of Nonferrous Metals Society of China, 2019, 29, 650-656.	1.7	5
17	Reaction kinetics and mechanism of calcium oxide in dilute sodium aluminate solution with oxalate based on lime causticization. Transactions of Nonferrous Metals Society of China, 2019, 29, 1312-1322.	1.7	11
18	Dissolution kinetics and removal mechanism of kaolinite in diasporic bauxite in alkali solution at atmospheric pressure. Transactions of Nonferrous Metals Society of China, 2019, 29, 2627-2637.	1.7	19

#	Article	IF	Citations
19	Mineral transition of desilication products precipitated in synthetic sodium aluminate solution under atmospheric pressure. Transactions of Nonferrous Metals Society of China, 2018, 28, 367-375.	1.7	8
20	Precipitation Characteristics and Mechanism of Vanadium Carbides in a V-Microalloyed Medium-Carbon Steel. Acta Metallurgica Sinica (English Letters), 2018, 31, 1197-1206.	1.5	12
21	Mineral structure and crystal morphologies of high-iron hydrargillite. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 505-514.	2.4	1
22	Synthesis and characterization of calcium aluminate compounds from gehlenite by high-temperature solid-state reaction. Ceramics International, 2018, 44, 13544-13550.	2.3	25
23	Effect of ferrite content on dissolution kinetics of gibbsitic bauxite under atmospheric pressure in NaOH solution. Journal of Central South University, 2017, 24, 489-495.	1.2	5
24	Effects of precipitation activity of desilication products (DSPs) on stability of sodium aluminate solution. Hydrometallurgy, 2016, 165, 261-269.	1.8	31
25	Formation mechanism and crystal simulation of Na2O-doped calcium aluminate compounds. Transactions of Nonferrous Metals Society of China, 2016, 26, 849-858.	1.7	12
26	Formation mechanism of calcium aluminate compounds based on high-temperature solid-state reaction. Journal of Alloys and Compounds, 2016, 670, 96-104.	2.8	45
27	Effect of Lime Addition during Digestion on Stability of Digested Liquor of Diasporic Bauxite. , 2016, , 45-49.		0
28	Dissolution kinetics and mechanism of gibbsitic bauxite and pure gibbsite in sodium hydroxide solution under atmospheric pressure. Transactions of Nonferrous Metals Society of China, 2015, 25, 4151-4159.	1.7	12
29	Mineral Transition of Calcium Aluminate Clinker during High-Temperature Sintering with Low-lime Dosage. Journal of Materials Science and Technology, 2015, 31, 1244-1250.	5.6	28
30	Reduction of alkalinity in bauxite residue during Bayer digestion in high-ferrite diasporic bauxite. Hydrometallurgy, 2015, 151, 98-106.	1.8	31
31	Effect of Iron Oxides on Activity of Calcium Aluminate Clinker in CaO-Al2O3-SiO2 System. Journal of Iron and Steel Research International, 2014, 21, 990-994.	1.4	8
32	Electrochemical study on adsorption behavior of surfactants at Î²-2CaOÂ·SiO2/NaAlO2 interface. Transactions of Nonferrous Metals Society of China, 2013, 23, 2416-2421.	1.7	3
33	Effect of Na2O on formation of calcium aluminates in CaOâ€“Al2O3â€“SiO2 system. Transactions of Nonferrous Metals Society of China, 2012, 22, 3108-3112.	1.7	26
34	Pre-desilication and digestion of gibbsitic bauxite with lime in sodium aluminate liquor. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 973-977.	2.4	20