



## CONTENT

Hang Yin, Zijie Ren, Huimin Gao, Weiwei Han, Junfang Guan	<i>Preparation of amphoteric modified bentonite from calcium-based bentonite for adsorption of anionic dye: The importance of sodium-modification pretreatment</i>	1
Jujian Zhu, Shujuan Dai, Pengcheng Li, Shuyong Yang	<i>An experimental study of removing impurity from a quartz ore by microbial flotation-acid leaching</i>	18
Mingfei He, Shuangke Li, Miao Cao, Yude Gao, Hao Bu, Qingbo Meng	<i>Activation mechanism of tantalum niobium flotation by lead ions in a combined collector flotation system</i>	29
Macaria Hernández-Chávez, Marissa Vargas-Ramírez, Ana M. Herrera-González, Jesús García-Serrano, Alejandro Cruz-Ramírez, José A. Romero-Serrano, Ricardo G. Sánchez-Alvarado	<i>Thermodynamic analysis of the influence of potassium on the thermal behavior of kaolin raw material</i>	39
Wang Wenping, Chen Yinghua, Li Haisheng, Dong Haoran, Wang Guanghui	<i>The influence of micro-morphology and micro-structure on fly ash triboelectrostatic beneficiation</i>	53
Yubin Wang, Yan Wang, Bo Yu, Xin Wang, and Xiaoxiao Ma	<i>Strengthening the rough selection effect of <i>n</i>-ethyl <i>o</i>-isopropyl thionocarbamate (Dow: Z-200) on chalcopyrite by ultrasonic pretreatment</i>	64
Xiaohui Li, Jue Kou, Tichang Sun, Shichao Wu, Yuechao Tian	<i>Effect of direct reduction time of vanadium titanomagnetite concentrate on the preparation and photocatalytic performance of calcium titanate</i>	75
R.M. Abdel-Hameed, F.E. Farghaly, E.A. Abdel-Aal, I.A. Ibrahim, M.A. Ahmed, M.F. Abdel-Messih, M.A. Abdel Khalek	<i>Exploitation of industrial solid wastes for preparing zeolite as a value-added product and its kinetics as adsorbent for heavy metal ions</i>	87
Yuqiong Li, Yingchao Liu, Jianhua Chen, Cuihua Zhao, Weiyong Cui	<i>Comparison study of crystal and electronic structures for chalcopyrite (CuFeS<sub>2</sub>) and pyrite (FeS<sub>2</sub>)</i>	100
Hamid Khoshdast, Hami Khoshdast, Saeid Jalilifard	<i>Dynamic analysis of a dashpots equipped vibrating screen using finite element method</i>	112
Junwei Huang, Qian Chen, Yuxuan Mao, Hongqiang Li	<i>The effect of ethylene oxide groups in dodecylamine polyoxyethylene ether on rutile flotation</i>	127
Ji Fang, Yingyong Ge, Shunbing Liu, Jun Yu, Cheng Liu	<i>Investigations on a novel collector for anionic reverse flotation separation of quartz from iron ores</i>	136
Yong-Xing Zheng, Ji-Lai Ning, Hai-Yun Xie, Jin-Fang Lv, Pan-Jin Hu, Jie Pang	<i>Study on surface modification of cerussite by thermochemical processing with pyrite</i>	156
Qingjun Guan, Ying Sui, Fang Zhang, Weijian Yu, Yongjie Bo, Ping Wang, Wenqing Peng, Jiao Jin	<i>Preparation of <math>\alpha</math>-calcium sulfate hemihydrate from industrial by-product gypsum: a review</i>	168
Xiaoyan Wu, Fang Zhou, Chufan Liu, Jian Feng, Zhenyue Zhang	<i>Effect of polyacrylamide on the process of removing impurities in the rare earth leachate</i>	182
Kaixuan Shang, Weimin Xie, Dongsheng He, Mostafa Benzaazoua, Fei Chen, Tatiana N. Aleksandrova	<i>Study on the foam behavior of amine reagents adsorbed at gas-liquid and gas-liquid-solid interfaces</i>	192
Limin Zhang, Sultan an Khoso, Mengjie Tian, Wei Sun	<i>Cassiterite recovery from a sulfide ore flotation tailing by combined gravity and flotation separations</i>	206
Ziyong Chang, Lancine Diallo, Bo Feng	<i>Effect of saline water on the synergistic interaction between diesel and Triton X-100 in the flotation of oxidized coal</i>	216
Victor M. Shevko, Abdurassul A. Zharmenov, Dasmurat K. Aitkulov, Alma Zh. Terlikbaeva	<i>Complex processing of oxidized copper and zinc oxide ores with simultaneous production of several products</i>	226
Ruofan Sun, Dan Liu, Benyue Zhang, Hao Lai, Shuming Wen	<i>Homogenization phenomena of surface components of fluorite and calcite</i>	250
Qing Guo, Qiang Zhou, Yongtai Pan, Changyong Zhu, Yinghua Wei	<i>The accurate algorithm of new surface area of single particle comminution, incorporating particle shape and roughness</i>	259
M.G. Farghaly, N.A. Abdel-Khalek, M.A. Abdel-Khalek, K.A. Selim, S.S. Abdallah	<i>Physicochemical study and application for pyrolusite separation from high manganese-iron ore in the presence of microorganisms</i>	273
Ying Hou, Ahmed Sobhy, Yue Wang	<i>Significance of reagents addition sequence on iron anionic reverse flotation and their adsorption characteristics using QCM-D</i>	284
Weiwei Huang, Guohua Gu, Xiong Chen, Yanhong Wang	<i>Effect of compound phosphate collector on flotation separation of jamesonite from marmatite and insights into adsorption mechanism</i>	294
Hepeng Zhou, Liang Geng, Yongbing Zhang, Zhizhao Yang, Kunzhong He, Fanxin Xie	<i>Selective flotation separation of chalcopyrite and sphalerite by thermal pretreatment under air atmosphere</i>	305