

Liste der wissenschaftlichen Publikationen

Maximilian Fischer

Tsanang, S.M., Moran Mendoza, A., Zgheib, A., Fischer, M.H., Schirmer, T., Wollmann, A., Fittschen, U.E.A., Schmidt, A., Flotation of spodumene against quartz by punicines, *Separations* 2026, manuscript submitted.

Fischer, M.H., Zgheib, A., El Hraoui, I., Schnickmann, A., Schirmer, T., Jeschke, G., Schmidt, A., Inverse Punicines: Isomers of Punicine and Their Application in LiAlO_2 , Melilite and CaSiO_3 Separation, *Separations* **2025**, *12*, 202.
<https://doi.org/10.3390/separations12080202>.

Strube, F., Guy, B.M., Pereira, L., Ebert, D.; Zgheib, A., Fischer, M.H., Möckel, R.; Schmidt, A., Rudolph, M., Batch Flotation of Lithium-Bearing Slag—A Special Focus on the Phase Properties of Engineered Artificial Minerals for Enhancing the Recycling of End-of-Life Lithium-Ion Batteries. *Minerals* **2025**, *15*, 334.
<https://doi.org/10.3390/min15040334>

Steiner, F., Zgheib, A., Fischer, M.H., Büttner, L., Schmidt, A., Breitung-Faes, S., In Situ Hydrophobization of Lithium Aluminate Particles for Flotations by Dry Grinding in the Presence of Punicines, *Minerals* 2024, *14*, 650.
<https://doi.org/10.3390/min14070650>.

Zgheib, A., Fischer, M.H., Namyslo, J.C., Fittschen, U.E.A., Wollmann, A., Weber, A.P., Schmidt, A., Photo-switchable Collectors for the Flotation of Lithium Aluminate for the Recycling of the Critical Raw Material Lithium, *ChemSusChem* 2024, *17*, e202301900. <https://doi.org/10.1002/cssc.202301900>.

Zgheib, A., Fischer, M.H., Tsanang, S.M., El Hraoui, I., Zhang, S., Wollmann, A., Weber, A.P., Fittschen, U.E.A., Schirmer, T., Schmidt, A., The Effect of Plasma Pretreatment on the Flotation of Lithium Aluminate and Gehlenite Using Light-Switchable Collectors, *Separations* 2024, *11*, 362.
<https://doi.org/10.3390/separations11120362>.

Zgheib, A., Acker, S., Fischer, M.H., Namyslo, J.C., Strube, F., Rudolph, M., Fittschen, U.E.A., Wollmann, A., Weber, A.P., Nieger, M., Schmidt, A., Lithium aluminate flotation by pH- and light-switchable collectors based on the natural product punicine, RSC Adv. 2024, 14, 9353 - 9364. <https://doi.org/10.1039/D4RA00116H>