# Jakob KÃ¶nig

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8892887/publications.pdf

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|---|---|---|---|
| 30 papers | 931 citations | 430874 18 h-index | 454955 30 g-index |
| 31 all docs | 31 docs citations | 31 times ranked | 499 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fabrication of highly insulating foam glass made from CRT panel glass. Ceramics International, 2015, 41, 9793-9800. | 4.8 | 125 |
| 2 | Influence of the glassâ€“calcium carbonate mixture's characteristics on the foaming process and the properties of the foam glass. Journal of the European Ceramic Society, 2014, 34, 1591-1598. | 5.7 | 87 |
| 3 | The mechanism of foaming and thermal conductivity of glasses foamed with MnO 2. Journal of Non-Crystalline Solids, 2015, 425, 74-82. | 3.1 | 76 |
| 4 | The viscosity window of the silicate glass foam production. Journal of Non-Crystalline Solids, 2017, 456, 49-54. | 3.1 | 73 |
| 5 | Influence of the glass particle size on the foaming process and physical characteristics of foam glasses. Journal of Non-Crystalline Solids, 2016, 447, 190-197. | 3.1 | 51 |
| 6 | Synthesis and properties of open- and closed-porous foamed glass with a low density. Construction and Building Materials, 2020, 247, 118574. | 7.2 | 48 |
| 7 | Suppressing the effect of cullet composition on the formation and properties of foamed glass. Ceramics International, 2018, 44, 11143-11150. | 4.8 | 47 |
| 8 | Gas-releasing reactions in foam-glass formation using carbon and MnxOy as the foaming agents. Ceramics International, 2017, 43, 4638-4646. | 4.8 | 41 |
| 9 | Effect of Na2CO3 as foaming agent on dynamics and structure of foam glass melts. Journal of Non-Crystalline Solids, 2014, 400, 1-5. | 3.1 | 39 |
| 10 | Using anticipatory life cycle assessment to enable future sustainable construction. Journal of Industrial Ecology, 2020, 24, 178-192. | 5.5 | 35 |
| 11 | Influence of foaming agents on solid thermal conductivity of foam glasses prepared from CRT panel glass. Journal of Non-Crystalline Solids, 2017, 465, 59-64. | 3.1 | 34 |
| 12 | Evaluation of the contributions to the effective thermal conductivity of an open-porous-type foamed glass. Construction and Building Materials, 2019, 214, 337-343. | 7.2 | 34 |
| 13 | Impact of pore structure on the thermal conductivity of glass foams. Materials Letters, 2019, 250, 72-74. | 2.6 | 30 |
| 14 | Effect of alkali phosphate content on foaming of CRT panel glass using Mn3O4 and carbon as foaming agents. Journal of Non-Crystalline Solids, 2018, 482, 217-222. | 3.1 | 27 |
| 15 | New Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>â€“NaTaO<sub>3</sub>â€Based Perovskite Ceramics. Journal of the American Ceramic Society, 2007, 90, 3621-3627. | 3.8 | 21 |
| 16 | Evaluation of Foaming Behavior of Glass Melts by Highâ€Temperature Microscopy. International Journal of Applied Glass Science, 2016, 7, 524-531. | 2.0 | 21 |
| 17 | Foam glass obtained through highâ€pressure sintering. Journal of the American Ceramic Society, 2018, 101, 3917-3923. | 3.8 | 20 |
| 18 | High-speed synchrotron X-ray imaging of glass foaming and thermal conductivity simulation. Acta Materialia, 2020, 189, 85-92. | 7.9 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Applicability of water glass for the transfer of the glass-foaming process from controlled to air atmosphere. Journal of Cleaner Production, 2021, 282, 125428. | 9.3 | 14 |
| 20 | Influence of additives on the crystallization and thermal conductivity of container glass cullet for foamed glass preparation. Ceramics International, 2021, 47, 32867-32873. | 4.8 | 13 |
| 21 | Influence of the synthesis conditions on the dielectric properties in the Bi0.5Na0.5TiO3â€“KTaO3 system. Journal of the European Ceramic Society, 2011, 31, 1987-1995. | 5.7 | 12 |
| 22 | The foaming mechanism of glass foams prepared from the mixture of Mn3O4, carbon and CRT panel glass. Ceramics International, 2021, 47, 2839-2847. | 4.8 | 12 |
| 23 | Modelling of the mechanisms of heat transfer in recycled glass foams. Construction and Building Materials, 2021, 274, 122000. | 7.2 | 10 |
| 24 | Enhanced tunable characteristics of the Na/sub 0.5/Bi/sub 0.5/TiO/sub 3/-NaTaO/sub 3/relaxor-type system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2617-2622. | 3.0 | 9 |
| 25 | Incipient Ferroelectric Properties of NaTaO<sub>3</sub>. Ferroelectrics, 2012, 426, 206-214. | 0.6 | 8 |
| 26 | Application of foaming agentâ€“oxidizing agent couples to foamed-glass formation. Journal of Non-Crystalline Solids, 2021, 553, 120469. | 3.1 | 6 |
| 27 | Uniaxial stress dependence of the dielectric properties in the Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>â€“NaTaO<sub>3</sub> system. Journal of Materials Research, 2010, 25, 1784-1792. | 2.6 | 5 |
| 28 | Impact of gas composition on thermal conductivity of glass foams prepared via high-pressure sintering. Journal of Non-Crystalline Solids: X, 2019, 1, 100014. | 1.2 | 5 |
| 29 | Uniaxial stress dependence of the dielectric permittivity of the Na0.5Bi0.5TiO3â€“KTaO3 system. Sensors and Actuators A: Physical, 2012, 182, 89-94. | 4.1 | 4 |
| 30 | Uniaxial Stress Dependence of the Permittivity and the Hardening Effect in the Na0.5Bi0.5TiO3â€“K0.5Bi0.5TiO3System. Ferroelectrics, 2014, 470, 201-211. | 0.6 | 3 |