

# Søren Tolborg

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1475809/publications.pdf>

Version: 2024-02-01

20  
papers

800  
citations

623734

14  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

632  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Tin-containing Silicates: Alkali Salts Improve Methyl Lactate Yield from Sugars. <i>ChemSusChem</i> , 2015, 8, 613-617.   | 6.8  | 131       |
| 2  | Meerwein-Ponndorf-Verley-Oppenauer reaction of crotonaldehyde with ethanol over Zr-containing catalysts. <i>Journal of Catalysis</i> , 2014, 316, 121-129.  | 6.2  | 125       |
| 3  | Incorporation of tin affects crystallization, morphology, and crystal composition of Sn-Beta. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20252-20262.   | 10.3 | 113       |
| 4  | Tin-containing silicates: identification of a glycolytic pathway via 3-deoxyglucosone. <i>Green Chemistry</i> , 2016, 18, 3360-3369.  | 9.0  | 56        |
| 5  | <sup>119</sup> Sn MAS NMR Study of the Interaction of Probe Molecules with Sn-BEA: The Origin of Penta- and Hexacoordinated Tin Formation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28083-28092.                     | 3.1  | 50        |
| 6  | Application of <sup>119</sup> Sn CPMG MAS NMR for Fast Characterization of Sn Sites in Zeolites with Natural <sup>119</sup> Sn Isotope Abundance. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1249-1253.            | 4.6  | 44        |
| 7  | Overcoming catalyst deactivation during the continuous conversion of sugars to chemicals: maximising the performance of Sn-Beta with a little drop of water. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 155-163.      | 3.7  | 39        |
| 8  | Accelerated synthesis of Sn-BEA in fluoride media: effect of H <sub>2</sub> O content in the gel. <i>New Journal of Chemistry</i> , 2016, 40, 4367-4374.  | 2.8  | 33        |
| 9  | Shape-selective Valorization of Biomass-derived Glycolaldehyde using Tin-containing Zeolites. <i>ChemSusChem</i> , 2016, 9, 3054-3061.  | 6.8  | 31        |
| 10 | Direct Observation of Tin in Different T-Sites of Sn-BEA by One- and Two-Dimensional <sup>119</sup> Sn MAS NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3738-3743.                                 | 4.6  | 31        |
| 11 | Synthesis of a novel polyester building block from pentoses by tin-containing silicates. <i>RSC Advances</i> , 2017, 7, 985-996.  | 3.6  | 29        |
| 12 | Quantitative NMR Approach to Optimize the Formation of Chemical Building Blocks from Abundant Carbohydrates. <i>ChemSusChem</i> , 2017, 10, 2990-2996.  | 6.8  | 29        |
| 13 | Influence of Composition and Preparation Method on the Continuous Performance of Sn-Beta for Glucose-Fructose Isomerisation. <i>Topics in Catalysis</i> , 2019, 62, 1178-1191.  | 2.8  | 25        |
| 14 | Effects of Alkali-Metal Ions and Counter Ions in Sn-Beta-Catalyzed Carbohydrate Conversion. <i>ChemSusChem</i> , 2018, 11, 1198-1203.   | 6.8  | 17        |
| 15 | Thermal Regeneration of Sn-Containing Silicates and Consequences for Biomass Upgrading: From Regeneration to Preactivation. <i>ACS Catalysis</i> , 2020, 10, 11545-11555.   | 11.2 | 15        |
| 16 | Stoichiometric active site modification observed by alkali ion titrations of Sn-Beta. <i>Catalysis Science and Technology</i> , 2019, 9, 4339-4346.   | 4.1  | 10        |
| 17 | High-Productivity Continuous Conversion of Glucose to $\pm$ -Hydroxy Esters over Postsynthetic and Hydrothermal Sn-Beta Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4391-4403.                      | 6.7  | 9         |
| 18 | Improved hydrogen storage kinetics of nanoconfined LiBH <sub>4</sub> -MgH <sub>2</sub> reactive hydride composites catalyzed with nickel Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1441, 1. | 0.1  | 5         |

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|----|--|-----|-----------|
| 19 | Shape-selective Valorization of Biomass-derived Glycolaldehyde using Tin-containing Zeolites. ChemSusChem, 2016, 9, 3022-3022.         | 6.8 | 5         |
| 20 | Tuning of Sn-BEA Reactivity by Controlling Tin Location in the BEA Framework. Journal of Physical Chemistry C, 2021, 125, 26679-26687. | 3.1 | 2         |