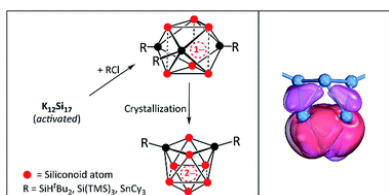


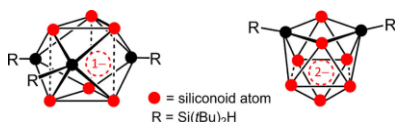
# Soluble Silicon Clusters



*Silicon clusters with six and seven unsubstituted vertices via a two-step reaction from elemental silicon*

L. J. Schiegerl, A. J. Karttunen, W. Klein, T. F. Fässler

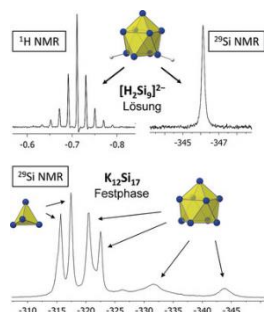
*Chem. Sci.* 10 (2019), 9130–9139 (DOI: [10.1039/C9SC03324F](https://doi.org/10.1039/C9SC03324F))



*Anionic Siliconoids from Zintl Phases:  $R_3Si_9^-$  with Six and  $R_2Si_9^{2-}$  with Seven Unsubstituted Exposed Silicon Cluster Atoms ( $R = Si(tBu)_2H$ )*

L. J. Schiegerl, A. J. Karttunen, W. Klein, T. F. Fässler

*Chem. Eur. J.* 24 (2018), 19171–19174 (DOI: [10.1002/chem.201805442](https://doi.org/10.1002/chem.201805442))



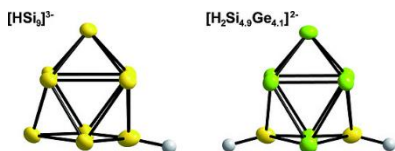
*Charged  $Si_9$  Clusters in Neat Solids and the Detection of  $[H_2Si_9]^{2-}$  in Solution: A Combined NMR, Raman, Mass Spectrometric, and Quantum Chemical Investigation*

L. J. Schiegerl, A. J. Karttunen, J. Tillmann, S. Geier, G. Raudaschl-Sieber, M. Waibel, T. F. Fässler

*Angew. Chem.* 130 (2018), 13132–13137 (DOI: [10.1002/ange.201804756](https://doi.org/10.1002/ange.201804756))

*Angew. Chem. Int. Ed.* 57 (2018), 12950–12955

(DOI: [10.1002/anie.201804756](https://doi.org/10.1002/anie.201804756))



*Silicon Containing Nine Atom Clusters from Liquid Ammonia Solution: Crystal Structures of the First Protonated Clusters  $[HSi_9]^{3-}$  and  $[H_2\{Si/Ge\}_9]^{2-}$*

T. Henneberger, W. Klein, T. F. Fässler

*Z. Anorg. Allg. Chem.* 644 (2018), 1018–1027 ( DOI: [10.1002/zaac.201800227](https://doi.org/10.1002/zaac.201800227))