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New Horizons in Silicon Chemistry

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Message from the Guest Editor

Dear Colleagues,

Basic silicon chemistry has developed remarkably since the first isolation of a silicon–silicon double-bonded molecule, tetramesityldisilene, by the late Prof. Robert West et al. in 1981. Today, a variety of silicon unsaturated compounds, such as silylenes, silaethenes, disilynes, and silanones, are available as isolable compounds, and their unique structures, bonding, electronic features, and reactions have been revealed. A multifaceted and balanced development of both basic and applied silicon chemistry is now required. This Special Issue provides a platform for the discussion of every aspect of molecular silicon and related germanium, tin, and lead compounds, including their synthesis, spectroscopic properties, theoretical calculations, reactions and mechanisms, and industrial applications.

Prof. Dr. Mitsuo Kira
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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