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10.3390/min8050175 -- Panagiotis Voudouris, Vasilios Melfos, Constantinos Mavrogonatos, Alexandre Tarantola, Jens Gotze, Dimitrios Alfieris, Victoria Maneta and Ioannis Psimis / Amethyst Occurrences in Tertiary Volcanic Rocks of Greece: Mineralogical, Fluid Inclusion and Oxygen Isotope Constraints on Their Genesis, Reprinted from: Minerals 2018, 8, 324, doi:10.3390/min8080324 -- Steffen Trumper, Ronny Roßler and Jens Gotze / Deciphering Silicification Pathways of Fossil Forests: Case Studies from the Late Paleozoic of Central Europe, Reprinted from: Minerals 2018, 8, 432, doi:10.3390/min8100432 -- Tadsuda Taksavasu, Thomas Monecke and T. James Reynolds / Textural Characteristics of Noncrystalline Silica in Sinters and Quartz Veins: Implications for the Formation of Bonanza Veins in Low-Sulfidation Epithermal Deposits, Reprinted from: Minerals 2018, 8, 331, doi:10.3390/min8080331 -- Vojtech Wertich, Jaromir Leichmann, Marek Dosbaba and Jens Gotze / Multi-Stage Evolution of Gold-Bearing Hydrothermal Quartz Veins at the Mokrsko Gold Deposit (Czech Republic) Based on Cathodoluminescence, Spectroscopic, and Trace Elements Analyses, Reprinted from: Minerals 2018, 8, 335, doi:10.3390/min8080335 -- Julia Richter-Feig, Robert Mockel, Jens Gotze and Gerhard Heide / Investigation of Fluids in Macrocrystalline and Microcrystalline Quartz in Agate Using Thermogravimetry-Mass-Spectrometry, Reprinted from: Minerals 2018, 8, 72, doi:10.3390/min8020072 -- Jonathan Sittner and Jens Gotze / Cathodoluminescence (CL) Characteristics of Quartz from Different Metamorphic Rocks within the Kaoko Belt (Namibia), Reprinted from: Minerals 2018, 8, 190, doi:10.3390/min8050190 -- Masahiro Kayama, Hiroshi Nagaoka and Takafumi Niihara / Lunar and Martian Silica, Reprinted from: Minerals 2018, 8, 267, doi:10.3390/min8070267.

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#### Sommario/riassunto

The present book reports recent contributions from research in the field of quartz and other silica minerals. The various forms of silica (SiO<sub>2</sub>) represent important constituents of the Earth crust and play a central role in the composition of geological materials. In particular, quartz is widely used as a raw material in numerous industrial sectors. The knowledge of the formation and specific properties of SiO<sub>2</sub> rocks and minerals is indispensable for the understanding and reconstruction of geological processes, as well as for specific technical applications. The works presented in this book are contributed by leading scientists and deal with aspects of the formation and processing of SiO<sub>2</sub> raw materials, the analysis of high-purity quartz, and the specifics and varieties (e.g., quartz, amethyst, opal, agate) of SiO<sub>2</sub> modifications. The presentations cover the main interrelations between theoretical, analytical, and industrial studies and provide information concerning recent developments in the research on SiO<sub>2</sub> materials.

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