

Prof. Zhijian James Shen

Zhijian Shen is a Professor and Chair of Materials Chemistry in Department of Materials and Environmental Chemistry, Arrhenius Laboratory, Stockholm University, Sweden. He received his PhD degree in 1990 in China, and moved to Sweden in 1993. His main research focus are on developing ceramics with novel or improved functions for demanded applications though exploring the potentials of advanced processes. To date, he has published about 250 scientific articles, has edited a book, and has filed more than 20 patents and patent applications.

He pioneered the Spark Plasma Sintering work in Europe and is among the very few early researchers in the community of ceramics who dedicated their effort to explore the potential of additive manufacturing during the last decade. In close collaboration with industrial partners he has succeeded in developing ceramic parts that are widely in commercial use as ceramic bearings, cutting tool inserts, and dental prostheses. In particular, his recent invention on self-glazed zirconia has made it possible for digitalized production of customized ceramic dental prostheses ready for direct clinic use.