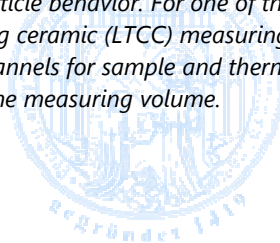


**A low temperature cofiring ceramic chamber for characterization of internal electric particle properties by a laseroptical method.**

Gimsa, J., Howitz, S., Rebenklau, L., 1998. In H. Reichl, E. Obermeier (Eds.): Micro System Technologies 98. 697–699, VDE-Verlag, Berlin, Germany. ISBN 3-8007-2421-9. 6th International Conference on Micro, Electro, Opto, Mechanical Systems and Components, 01.-03. December. Potsdam, Germany.

**Abstract:** *Common light scattering methods analyze size and surface charge of microscopic and submicroscopic particles by detection of their thermally and electrophoretically induced movement, respectively. Recently, new light scattering methods were developed which access the internal electric structure of suspended particles [1, 2]. These methods base on the analysis of the AC-electrokinetic particle behavior. For one of the methods, electrorotational light scattering (ERLS), we developed a low temperature cofiring ceramic (LTCC) measuring chamber. The chamber combines an optically observable measuring volume with fluidic channels for sample and thermostatic fluid as well as electric circuitry for the application of a rotating electric field to the measuring volume.*

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