

Methods, IAAC, Hillebrecht

<h2 style="text-align: center;">Spark Plasma Sintering</h2>	Model: Unit and Room: Responsible: Further information:	<i>Sumitomo Dr. Sinter-Lab Spark Plasma Sintering System SPS-515 S Inorg. Chem., -143 (Chem. II) Dr. M. Ade, Dr. D. Kotzott http://portal.uni-freiburg.de/fkchemie/Ausstattung</i>
Short Description: Sumitomo Dr. Sinter-Lab Spark Plasma Sintering System SPS-515 S with hydraulic press (up to 50 kN). Working temperature up to 2000 °C.	Picture of the Equipment	
Available Experiments/Techniques: Sintering of pellets under high temperature and pressure, synthesis of composite materials, synthesis of pure compounds under moderate conditions.		
Special Equipment: Graphite dies for high pressure application		
Measurements on the equipment are currently done by:	<input type="checkbox"/> Students <input type="checkbox"/> Students after Introduction <input type="checkbox"/> Students after extensive training <input checked="" type="checkbox"/> Trained scientific service personal	
Recent Publications, where this instrument was important (optional): Give citation		
Typical problems that may be solved with this instrument:	<i>Synthesis of pure compounds not available by other methods, sintering of test specimen</i>	