





<p>Date: 01.03.2019          Authorized user:          Dr. A. P. Ovvyan, L. Jin          Work area: Plasma Zone          Workplace: Room 100.030b</p>	<h1>Safety Instruction</h1> <h2>O<sub>2</sub> Plasma Asher</h2> <h3>(Electronic Diener)</h3>	<p>WWU          Münster Nanofabrication          Facility (MNF)          Center for Soft Nanoscience          (SoN)          Busso-Peus-Str. 10          48149 Münster</p>
---	--	--

Range of Application		
	<ul style="list-style-type: none"> <li>Working with vacuum/ultrahigh vacuum, operating under high voltage, operating with N<sub>2</sub> and O<sub>2</sub> gases</li> </ul>	
Hazard for People and the environment		
	<ul style="list-style-type: none"> <li>Electical risk by shock</li> <li>Electromagnetic radiation</li> <li>Risk by UV radiation (may occure in plasma)</li> <li>Work under vacuum</li> <li>accessible hot sites on the system, e.g. on the internal walls, electrodes, workpiece carriers in the plasma chamber</li> </ul> <p><b>CAUTION! The system contains equipment (generators) that are under high voltage!</b></p> <p><b>DANGER! Persons with cardiac pacemakers or active implants must keep at an adequate distance!</b></p> <p><b>DANGER! The use of processes and gases/substances for which the system has not been designed and equipped may cause serious damage to the system, hazards, and grievous injury!</b></p>	
Safety Measures and Rules of Behavior		
	<ul style="list-style-type: none"> <li><b>The instrument is to be used only by instructed Persons</b></li> <li>Manual has to be read and understood</li> <li>The operator must ensure a clean and unobstructed production environment so that a safe and functional operation is possible.</li> <li>No improper handling of switches, buttons etc.</li> <li>Do not damage service connections</li> <li>Operate Manipulators gently and don't tilt</li> <li>Samples has to be tempered to room temperature before any handle</li> <li>The device has to be used only with O<sub>2</sub> or N<sub>2</sub> gases</li> </ul> <p><b>NEVER! change settings that have been protected with seals or locks! There is a risk of malfunction, damage, and possibly grievous injury!</b></p>	
Action in Failure		
	<p><b>Instrument is only to be switched off by designated persons</b></p> <p>Dr. A. P. Ovvyan: 0251-83-63904 oder L. Jin: 0251-83-63928</p>	
Action in Accident, First Aid		
	<ul style="list-style-type: none"> <li><b>Protect yourself and remove injured people out of the danger area, react quickly, involve primary responsible person,</b></li> <li><b>Call emergency services (112)</b></li> <li>Report accident</li> </ul>	
Maintenance and Disposal		
	<ul style="list-style-type: none"> <li>Maintenance only with original spare parts</li> <li>Instrument must be repaired only by authorized persons</li> </ul>	
Consequences in Nonobservance		
	<ul style="list-style-type: none"> <li>Damage to the instrument, malfunction, costly damage</li> </ul>	