

Table of content

List of abbreviations	I
List of figures	III
List of tables	III
Zusammenfassung	1
Summary	2
Resumen	3
Chapter 1 - General introduction	5
Chapter 2 - Plant viruses in irrigation water: reduced dispersal of viruses using sensor-based disinfection	15
Chapter 3 - Efficacy of electrolytically-derived disinfectant against dispersal of <i>Fusarium oxysporum</i> and <i>Rhizoctonia solani</i> in hydroponic tomatoes	27
Chapter 4 - Electrolytic disinfection of irrigation water for intensive crop production in greenhouses as demonstrated on tomatoes (<i>Solanum lycopersicum</i> Mill)	39
Chapter 5 - General Discussion	57
Chapter 6 - References	63
Declaration of independence - Eigenständigkeitserklärung	74
Acknowledgment	75