
APPENDIX I List of Acronyms

ADC	Analog-digital converter
AES	Auger electron spectroscopy
Arb. u.	Arbitrary units
BZ	Belousov-Zhabotinsky
CCD	Charge coupled device
CSTR	Continuous-flow stirred tank reactor
DFC	Delayed feedback control
DFT	Density functional theory
DOS	Density of states
EMSI	Ellipsometry for surface imaging
EELS	Electron energy loss spectroscopy
ER	Eley-Rideal
fcc	Face centered cubic
hcp	Hexagonally close packed
IDT	Interdigital transducer
IR	Infrared
IRT/IRI	Infrared thermography/ imaging
LEED	Low energy electron diffraction
LH	Langmuir-Hinshelwood
LITD	Laser-induced thermal desorption
ML	Monolayer
MO	Molecular orbitals
PDE	Partial differential equation
PEEM	Photoemission Electron Microscopy
PSZT	Lead strontium zirconium titanate
QMS	Quadrupole mass spectroscopy
RF	Radio frequency
SAW	Surface acoustic waves
STM	Scanning tunnelling microscopy
TDS	Temperature desorption
UHV	Ultrahigh vacuum
UPO	Unstable periodic orbits
UPS	Ultraviolet photoemission spectroscopy
UV	Ultraviolet