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List of abbreviations used in this Thesis

°C	degree centigrade
ACN	Acetonitrile
AR	Analytical reagent
CD	Circular Dichroism
CPET	Concerted Proton Electron Transfer
CV	Cyclic voltammetry
DCE	Dichloroethane
DCM	Dichloromethane
DEPT	Distortionless Enhancement by Polarization Transfer
DFT	Density Functional Theory
DMF	Dimethylformamide
EDA	Ethyl diazoacetate
<i>ee</i>	Enantiomeric excess
EMA	Ethyl methoxyacetate
EPR	Electron Paramagnetic Resonance
ET	Electron transfer
EVLS	Elimination Voltammetry with Linear Scan
FAB-Mass	Fast atomic bombardment mass spectroscopy
FT-IR	Fourier Transform Infra-red
GAO	Galactose oxidase
GC	Gas chromatography
GC-MS	Gas chromatography mass spectroscopy

HOMO	Highest occupied molecular orbital
ICP-OES	Inductively coupled plasma optical emission spectrometry
IET	Intramolecular electron transfer
LUMO	Lowest unoccupied molecular orbital
MDR	Multi Drug Resistance
MIRC	Michael initiated ring closure
mp	Melting point
mV	Millivolt
NIL	Noninnocent ligand
NMR	Nuclear magnetic resonance
ORTEP	Oak Ridge Thermal Ellipsoid
PCET	Proton Coupled Electron Transfer
PT	Proton transfer
RCM	Ring closing metathesis
RT	Room temperature
SI	Supporting Information
SOR	Specific Optical Rotation
TACN	Triazacyclononanes
TBAPF ₆	Tetra-n-butylammonium hexafluorophosphate
TBHP	Tert-butylhydroperoxide
TGA	Thermo Gravimetric Analysis
TLC	Thin Layer Chromatography
UV	Ultraviolet
vs	versus
XRD	X-ray Diffraction

