

Table of Contents

The Fascination of Macro Photography	2
01 The Basics	7
The Basics in Theoretical Terms	8
The Basics in Numbers	12
The Deepest Depths	16
02 Equipment	19
Cameras for Macro Photography	20
Standard Lenses	28
Macro Lenses	30
Close-Up Lenses	32
Teleconverters and Extension Tubes	34
Reversing Rings and Coupling Rings	36
Bellows	38
Altering Depth of Field	40
Lighting for Close-Up and Macro Photography	42
Colors of Light and Color Reproduction	46
Shutter Release Accessories	52
Remote Control via Smartphone or Tablet	54
Remote Control with Triggertrap	56
Optical Filters	58
Tripods and Mounts	60
Transportation and Safety	64
Additional Macro Accessories	66
03 Shooting Techniques	71
Strategies for Dealing with Blur	72
Holding a Camera Properly	80
04 Macro Photography in the Studio	85
Studio Light	86
Lighting Compared	92
Building a Small Macro Studio	94
Bringing Nature Indoors	96
The Glowing Snail Shell	100
Tabletop Photography	102
Smoke, Steam, and Fog	108

05 Macro Photography in Nature	113
Backyards and Balconies	114
Into the Wild	118
Stefan Dittmann Fungal Photography	129
Photography in the Fungal Kingdom	130
06 Special Shooting Techniques	139
Multiple Exposures	140
Focus Stacking	144
Light Painting	152
Interval Shooting, Time-Lapse, and Stop-Motion	154
High-Speed Photography	156
High-Speed Studio Photography without Light Barriers	158
High Dynamic Range—HDR	160
Macro Panoramas	164
Creative Experiments	170
Infrared Macro Photography	174
Jan Metzler Focus Stacking	179
Advanced Focus Stacking	184
Hans Christian Steeg High-Speed Photography	191
Caught in Flight	192
07 Searching for Subjects	201
Discovering, Searching for, and Collecting Subjects	202
Variations on a Theme	208
Abstract Subjects	210
08 A Day at the Zoo	213
Zoos	214
Botanical Gardens	216
Butterfly Gardens	226
Aquaria and Terraria	230

Table of Contents

09 Image Editing	239
Post-processing Photos	240
Black & White Conversion	244
10 Working with Light	249
Exposure Metering	250
Lighting on the Go	254
A Comparison of Portable Lighting Options	258
11 Composition	263
Image Design	264
Creative Camera Angles	278
Setting the Scene with Light	280
Focus as a Design Tool	286
Accents of Color	292
Limiting Colors	294
Bernd Schloemer Miniature Street Art	299
The Cognies Project	300
12 Do It Yourself	309
Using a Macro Lens as a Microscope	310
Guide Rails for Macro Panoramas	312
Beanbag Camera Stands	316
System Flash Reflectors	317
Acknowledgments	318
Index	320