

Contents

About the series — V

Author list — IX

Steven Kosmas and Mark Anthony Benvenuto

1 Introduction — 1

Liza Abraham

**2 Applications of green chemistry in laboratory experiments
and undergraduate research — 3**

Larry Kolopajlo

**3 The UN sustainable development goals and nanochemistry: a critical
review — 45**

Andrea Ashley-Oyewole

4 Green chemistry and the UN SDGs — 81

Sahil D. Patel and Cameron C. Weber

5 Alternative solvents and the UN sustainable development goals — 95

Mahin A. Zaman and Anne E. Marteel-Parrish

**6 A sustainable development approach to promoting water security
in Eritrea — 129**

Iris S. Teixeira, Thais R. Souza, Humberto M. S. Milagre
and Cintia D. F. Milagre

7 The role of biocatalysis in green and sustainable chemistry — 159

Michal Tomasz Ruprecht

8 The climate education clock — 175

Scott Milam

9 LOL diagrams — 179

Ashley M. Smith and Edward P. Zovinka

10 Green chemistry teaching and research at a small, Catholic university — 191

Index — 203