Contents

Theme issue: Material demand reduction

INTRODUCTION

Industry 1.61803: the transition to an industry with reduced material demand fit for a low carbon future
JM Allwood, TG Gutowski, AC Serrenho, ACH Skelton and E Worrell

ARTICLES

‘Not to escape the world but to join it’: responding to climate change with imagination not fantasy
A Davison

Energy demand for materials in an international context
E Worrell and JR Carreon

Why we use more materials
TG Gutowski, D Cooper and S Sahni

The impact of reducing car weight on global emissions: the future fleet in Great Britain
AC Serrenho, JB Norman and JM Allwood

Radical dematerialization and degrowth
G Kallis

Are prices enough? The economics of material demand reduction
T Aidt, L Jia and H Low

The carbon price: a toothless tool for material efficiency?
ACH Skelton and JM Allwood

Recomposing consumption: defining necessities for sustainable and equitable well-being
I Gough

Towards environmentally sustainable human behaviour: targeting non-conscious and conscious processes for effective and acceptable policies
TM Marteau

The austere life
N Xenos

Exploring demand reduction through design, durability and ‘usership’ of fashion clothes
K Fletcher

Demanding stories: television coverage of sustainability, climate change and material demand
J Smith

Why on earth did I buy that? A study of regretted appliance purchases
T Roberts, A Hope and A Skelton

Who is reducing their material consumption and why? A cross-cultural analysis of dematerialization behaviours
L Whitmarsh, S Capstick and N Nash

Living both well and sustainably: a review of the literature, with some reflections on future research, interventions and policy
T Kasser

Climate strategies: thinking through Arctic examples
B Bodenhorn and O Ulturgasheva

Frugal innovation: doing more with less for more
J Prabhu

Political economies and environmental futures for the sharing economy
K Frenken