David J. Brown

## Access to Scientific Research

Challenges Facing Communications in STM

**DE GRUYTER** SAUR

## **Contents**

List of Tables --- XIII List of Figures ---- XV List of Acronyms and Abbreviations used in the text --- XVII Chapter 1 Background --- 1 Chapter 2 Definitions — 7 Chapter 3 Aims, Objectives, and Methodology --- 17 Chapter 4 Setting the Scene — 22 Chapter 5 Information Society --- 30 Chapter 6 Drivers for Change — 49 Chapter 7 A Dysfunctional STM Scene? — 59 Chapter 8 Comments on the Dysfunctionality of STM Publishing — 80 Chapter 9 The Main Stakeholders — 94 Chapter 10 Search and Discovery --- 107 Chapter 11 Impact of Google --- 111 Chapter 12 Psychological Issues --- 121 Chapter 13 Users of Research Outputs --- 132

Chapter 14 Underlying Sociological Developments — 154 Social Media and Social Networking - 180 Chapter 16 Forms of Article Delivery - 202 Chapter 17 Future Communication Trends — 212 Chapter 18 Academic Knowledge Workers — 238 Chapter 19 Unaffiliated Knowledge Workers - 251 Chapter 20 The Professions — 273 Chapter 21 Small and Medium Enterprises --- 280 Chapter 22 Citizen Scientists - 288 Chapter 23 Learned Societies - 297 Chapter 24 Business Models - 315 Chapter 25 Open Access --- 340 Chapter 26 Political Initiatives - 364 Chapter 27 Summary and Conclusions — 379 Chapter 28 Research Questions Addressed — 395 Bibliography — 404 Index — 417