

1.	Record Nr.	UNISALENTO991001133649707536
	Autore	Spadolini, Giovanni
	Titolo	Una politica per i beni culturali : discorsi alla Camera e al Senato della Repubblica per la conversione del decreto istitutivo del Ministero (con appendice di testi legislativi) / Giovanni Spadolini
	Pubbl/distr/stampa	[Roma] : Casa editrice Colombo, 1975
	Descrizione fisica	125 p. ; 21cm.
	Soggetti	Beni Culturali - Legislazione
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910822695303321
	Autore	Xaba Nqobile
	Titolo	A Just Transition to a Low Carbon Future in South Africa
	Pubbl/distr/stampa	Carol Stream : , : Mapungubwe Institute for Strategic Reflection (MISTRA), The, , 2022 ©2022
	ISBN	1-920690-35-2
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (456 pages)
	Altri autori (Persone)	FakirSaliem
	Disciplina	333.79150968
	Soggetti	Sustainable development - South Africa Sustainable development - Social aspects Energy transition - South Africa Renewable energy sources - South Africa Energy development - South Africa Power resources - South Africa Carbon dioxide mitigation - South Africa COVID-19 (Disease)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

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just energy transition -- INTRODUCTION -- NEXUS OF FINANCE WITH SUSTAINABILITY AND CLIMATE CHANGE -- FINANCING JUST TRANSITIONS -- COVID-19 AND CLIMATE FINANCE -- SOUTH AFRICA'S ENCOUNTERS WITH CLIMATE FINANCE. SIGNALLING FINANCE NEEDS FOR SOUTH AFRICA'S JUST ENERGY TRANSITION -- CLIMATE FINANCE AS A RAGING FIRE? -- BEYOND SMOKE SIGNALS TO RAGING FIRE: ARTICULATING SOUTH AFRICA'S DEMANDS FOR FINANCE -- REFERENCES -- SECTION 3. Technology pathways for a just transition -- EIGHT - Steering the South African energy sector towards a low carbon economy. The role of a well-managed energy transition -- INTRODUCTION -- HYDROGEN -- Hydrogen properties -- Hydrogen generation, storage and distribution -- Hydrogen application: Fuel cells -- Challenges and barriers for production and deployment of green hydrogen -- POSITIONING SOUTH AFRICA IN THE CURRENT GLOBAL TRANSITION USING HYDROGEN AND FUEL CELL TECHNOLOGIES -- Advancement of green hydrogen and power fuels -- Beneficiation of green hydrogen -- THE STATE OF SA'S FUEL CELL AND HYDROGEN TECHNOLOGIES -- The HySA Programme -- South African industry transitions towards a hydrogen economy -- Mining sector contribution to hydrogen and fuel cells technology development and deployment -- Cities adopting the hydrogen economy -- SUSTAINABLE TRANSITION IN SOUTH AFRICA AND THE HYDROGEN ECONOMY -- Systems required for a sustainable transition to a hydrogen economy -- Investment and creation of markets -- CONCLUSION -- REFERENCES -- NINE - Shaping the low carbon energy transformation for just urban transitions in South Africa -- INTRODUCTION AND CONTEXT -- CONCEPTUALISING JUST URBAN TRANSITIONS FOR SOUTH AFRICA -- TRANSFORMING SOUTH AFRICA'S URBAN ENERGY SYSTEMS BETWEEN 1994 AND 2021 -- DECENTRALISATION AND JUST TRANSITION -- CONCLUSION -- REFERENCES -- SECTION 4. Social factors of climate change and the just transition -- TEN - Assessing options of an energy transition and alternative agriculture in Mpumalanga -- INTRODUCTION -- SECTION ONE. ENERGY TRANSITIONS: OPTIONS FOR REPURPOSING COAL INFRASTRUCTURE. COAL INFRASTRUCTURE REPURPOSING OPTIONS -- THE JUST ENERGY TRANSITION APPROACH -- CONCLUDING REMARKS -- SECTION 2. REGENERATIVE AGRICULTURE: AN ALTERNATIVE ECONOMIC DEVELOPMENT PATHWAY -- REGENERATIVE AGRICULTURE -- Employment in regenerative agriculture -- LAND REHABILITATION THROUGH REGENERATIVE AGRICULTURE -- Policy requirements for regenerative agriculture to support a just transition -- CONCLUDING REMARKS -- CHAPTER OVERVIEW -- REFERENCES -- ELEVEN - Democratising a just transition in South Africa -- INTRODUCTION -- INTERNATIONAL ORIGINS -- CONSTRAINTS ON ACHIEVING A JUST TRANSITION -- A QUESTION OF POWER -- INSIGHTS FROM LABOUR ON A JUST TRANSITION -- THE COSATU CLIMATE CHANGE POLICY FRAMEWORK -- INSIGHTS FROM CIVIL SOCIETY ON A JUST TRANSITION -- AREAS OF CONSENSUS AND CONVERGENCE -- GLOBAL SOCIAL MOVEMENT AND THE JUST TRANSITION -- CONCLUSION: THE BASIS FOR THE MASS COALITION MOVEMENT ON THE JUST TRANSITION -- REFERENCES -- TWELVE - Climate liberalism, the green deal and strategic competition. The geopolitics of decarbonisation -- INTRODUCTION -- THE ASIA PIVOT: CHINA'S INCREASING THREAT TO WESTERN SUPREMACY -- CHINA'S POSITIONING IN GREEN TECHNOLOGIES AND GREEN MINERALS: A GROWING THREAT TO WESTERN SUPREMACY -- AS NEW BATTLE LINES ARE DRAWN, HOW ARE OTHER GLOBAL PLAYERS RESPONDING? -- THE ROAD AHEAD FOR

AFRICA: LEVERAGING THE NEW GEOPOLITICAL BATTLE LINES -- SOUTH AFRICA'S ROLE IN SECURING AFRICA'S FUTURE POSITIONING IN THE DECARBONISATION AGENDA -- CONCLUDING REMARKS -- REFERENCES -- THIRTEEN - Reimagining skills planning for a low carbon and sustainable future. Conceptualising skills ecosystems -- INTRODUCTION AND BACKGROUND -- Green skills: A meander through the literature -- Framework for looking at skills for a green and just transition. UNPACKING CASE STUDY EXAMPLES TO DEPICT THE VERTICAL AND HORIZONTAL DIMENSIONS OF TWO SKILLS ECOSYSTEMS -- CASE 1 - Skills ecosystem - The wood pellet value chain in the Expanded Public Works Programme -- CASE 2 - Towards a resilient food ecosystem: Addressing food waste -- Facilitating verticalities within the skills ecosystem that emerged from this case -- Horizontalities (collaboration) that emerged -- THE INTERPLAY BETWEEN THE VERTICAL AND HORIZONTAL IN THE SKILLS ECOSYSTEMS -- LESSONS ON SKILLS AND SKILLS ECOSYSTEMS -- CONCLUSION -- REFERENCES -- FOURTEEN - Conclusion. Insights and recommendations for building a just low carbon future in South Africa -- INTRODUCTION -- SOCIAL DIALOGUE AND COHESION FOR A JUST TRANSITION -- A 'JUST' INCLUSIVE ECONOMIC GROWTH -- TECHNOLOGICAL INNOVATIONS FOR EQUITABLE ACCESS TO ENERGY -- CAPACITY BUILDING AND SKILLS DEVELOPMENT FOR A CAPABLE WORKFORCE -- CONCLUDING REMARKS -- REFERENCES -- Index -- Back cover.

3. Record Nr.	UNINA9910254323603321
Titolo	CMBEBIH 2017 : Proceedings of the International Conference on Medical and Biological Engineering 2017 // edited by Almir Badnjevic
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
ISBN	981-10-4166-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIX, 806 p. 489 illus.)
Collana	IFMBE Proceedings, , 1680-0737 ; ; 62
Disciplina	620
Soggetti	Biomedical engineering Biomaterials Medical informatics Biomedical Engineering and Bioengineering Biomedical Engineering/Biotechnology Health Informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Sommario/riassunto	This volume presents the proceedings of the International Conference on Medical and Biological Engineering held from 16 to 18 March 2017 in Sarajevo, Bosnia and Herzegovina. Focusing on the theme of 'Pursuing innovation. Shaping the future', it highlights the latest advancements in Biomedical Engineering and also presents the latest findings, innovative solutions and emerging challenges in this field. Topics include: - Biomedical Signal Processing - Biomedical Imaging and Image Processing - Biosensors and Bioinstrumentation - Bio-Micro/Nano Technologies - Biomaterials - Biomechanics, Robotics and Minimally Invasive Surgery - Cardiovascular, Respiratory and Endocrine Systems Engineering - Neural and Rehabilitation Engineering - Molecular, Cellular and Tissue Engineering - Bioinformatics and Computational Biology - Clinical Engineering and Health Technology Assessment - Health Informatics, E-Health and Telemedicine - Biomedical Engineering Education - Pharmaceutical Engineering.

