

SCCER-SoE Publications Integrative Activities

| Title | Authors | Title of journal | Year of publication | DOI |
|--|--|--|---------------------|---|
| Reinvigorating the scenario technique for expanded uncertainty consideration | E. Trutnevyte, C. Guivarch, R. Lempert, N. Strachan | Climatic Change | 2016 | |
| Energy scenario choices: insights from a retrospective review of UK energy futures | E. Trutnevyte, W. McDowall, J. Tomei, I. Keppo | Sustainable and Renewable Energy Reviews, 55, 326-337 | 2016 | |
| Greenhouse Gas Emissions from Energy Systems, Comparison and Overview | C. Bauer, K. Treyer, T. Heck, S. Hirschberg | Scott E.A.: Reference Module in Earth Systems and Environmental Sciences | 2015 | 10.1016/B978-0-12-409548-9.09276-9 |
| Seismic monitoring and analysis of deep geothermal projects in St Gallen and Basel, Switzerland | B. Edwards, T. Kraft, C. Cauzzi, P. Kästli, S. Wiemer | Geophysical Journal International 201 (2), 1020-1037 | 2015 | |
| Sustainability assessment for energy technologies | S. Hirschberg, P. Burgherr | Handbook of Clean Energy Systems | 2015 | 10.1002/9781118991978.hces070 |
| Energy from the Earth. Deep Geothermal as Resource for the Future? | S. Hirschberg, S. Wiemer, P. Burgherr (Eds.) | TA-SWISS Study TA/CD 62/2015, vdf Hochschulverlag AG | 2015 | 10.3218/3655-8 |
| Prospects of modelling societal transitions - Position paper of an emerging community | G. Holtz, F. Alkemade, F. de Haan, J. Köhler, E. Trutnevyte, T. Luthe, J. Halbe, G. Papachristos, E. Chappin, J. Kwakkel, S. Ruutu | Environmental Innovations and Societal Transitions, 17, 41-58 | 2015 | |
| A review of Socio-Technical Energy Transition (STET) models | F. Li, E. Trutnevyte, N. Strachan | Technological Forecasting and Social Change, 100, 290-305 | 2015 | |
| Induced seismicity risk analysis of the 2006 Basel, Switzerland, Enhanced Geothermal System project: Influence of uncertainties on risk mitigation | A. Mignan, D. Landtwing, P. Kästli, B. Mena, S. Wiemer | Geothermics | 2015 | |
| Potential of ambient seismic noise techniques to monitor the St. Gallen geothermal site (Switzerland) | A. Obermann, T. Kraft, E. Larose, S. Wiemer | JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH | 2015 | |
| Powering the growth of Sub-Saharan Africa: The Jazz and Symphony scenarios of World Energy Council | E. Panos, H. Turton, M. Densing, K. Volkart | Energy for Sustainable Development | 2015 | 10.1016/j.esd.2015.01.004 |
| A parallel multigrid method for constrained minimization problems and its application to friction, contact, and obstacle problems | R. Krause, A. Rigazzi, J. Steiner | Computing and Visualization in Science, to appear | 2015 | |
| Numerical analysis of normally loaded rough contact by means of the Finite Element Method | R. Krause, A. Rigazzi | Preprint | 2015 | |
| Framing deep geothermal energy in mass media: the case of Switzerland | M. Stauffacher, N. Muggli, A. Scolobig, C. Moser | Technological Forecasting and Social Change, 98, 60-70 | 2015 | |
| Synergies and trade-offs between governance and costs of electricity system transition | E. Trutnevyte, N. Strachan, P. Dodds, D. Pudjianto, G. Strbac | Energy Policy, 85, 170-181 | 2015 | |
| Comparative risk assessment of severe accidents in the energy sector | P. Burgherr, S. Hirschberg | Energy Policy | 2014 | 10.1016/j.enpol.2014.01.035 |
| Environmental and economic assessment of a cracked ammonia fuelled alkaline fuel cell for off-grid power applications | B. Cox, K. Treyer | Journal of Power Sources | 2014 | 10.1016/j.jpowsour.2014.11.023 |
| Review of Swiss Electricity Scenarios 2050 | M. Densing, S. Hirschberg, H. Turton | PSI-Report 14-05 | 2014 | http://www.psi.ch/eem/PublicationsTabelle/PSI-Bericht_14-05.pdf |
| Balancing reservoir creation and seismic hazard in enhanced geothermal systems | V. Gischig, S. Wiemer, A. Alcolea | GEOPHYSICAL JOURNAL INTERNATIONAL | 2014 | |
| The quantification of low-probability-high-consequences events: part I. A generic multi-risk approach | A. Mignan, S. Wiemer, D. Giardini | NATURAL HAZARDS Volume: 73 Issue: 3 Pages: 1999-2022 | 2014 | |
| The effects of roughness on the area of contact and on the elastostatic friction - FEM simulation of micro-scale rough contact and real world applications | A. Rigazzi | PhD Thesis | 2014 | |
| Human health impacts in the life cycle of future European electricity generation | K. Treyer, C. Bauer, A. Simons | Energy Policy | 2014 | 10.1016/j.enpol.2014.03.034 |