

Ludger Eltrop

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,118
citations

516710

16
h-index

395702

33
g-index

41
all docs

41
docs citations

41
times ranked

1398
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Simulation and analysis of different adiabatic Compressed Air Energy Storage plant configurations. <i>Applied Energy</i> , 2012, 93, 541-548. | 10.1 | 260 |
| 2 | Solar photovoltaic power generation in Iran: Development, policies, and barriers. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 106, 110-123. | 16.4 | 97 |
| 3 | Growth and mineral nutrition of non-mycorrhizal and mycorrhizal Norway spruce (<i>Picea abies</i>) seedlings grown in semi-hydroponic sand culture. I. Growth and mineral nutrient uptake in plants supplied with different forms of nitrogen. <i>New Phytologist</i> , 1996, 133, 469-478. | 7.3 | 68 |
| 4 | Lead tolerance of <i>Betula</i> and <i>Salix</i> in the mining area of Mechernich/Germany. <i>Plant and Soil</i> , 1991, 131, 275-285. | 3.7 | 61 |
| 5 | A Life Cycle Assessment of Biomethane Production from Waste Feedstock Through Different Upgrading Technologies. <i>Energies</i> , 2019, 12, 718. | 3.1 | 59 |
| 6 | Land substitution effects of biofuel side products and implications on the land area requirement for EU 2020 biofuel targets. <i>Energy Policy</i> , 2009, 37, 2986-2996. | 8.8 | 57 |
| 7 | Simulating the energy yield of a bifacial photovoltaic power plant. <i>Solar Energy</i> , 2019, 183, 812-822. | 6.1 | 56 |
| 8 | Bioenergy villages in Germany: Bringing a low carbon energy supply for rural areas into practice. <i>Renewable Energy</i> , 2014, 61, 74-80. | 8.9 | 55 |
| 9 | Sunset or sunrise? Understanding the barriers and options for the massive deployment of solar technologies in Chile. <i>Energy Policy</i> , 2018, 112, 399-414. | 8.8 | 48 |
| 10 | Towards solar power supply for copper production in Chile: Assessment of global warming potential using a life-cycle approach. <i>Journal of Cleaner Production</i> , 2017, 164, 242-249. | 9.3 | 46 |
| 11 | Growth and mineral nutrition of non-mycorrhizal and mycorrhizal Norway spruce (<i>Picea abies</i>) seedlings grown in semi-hydroponic sand culture. II. Carbon partitioning in plants supplied with ammonium or nitrate. <i>New Phytologist</i> , 1996, 133, 479-486. | 7.3 | 37 |
| 12 | A Holistic Comparative Analysis of Different Storage Systems using Levelized Cost of Storage and Life Cycle Indicators. <i>Energy Procedia</i> , 2015, 73, 18-28. | 1.8 | 34 |
| 13 | Renewable energy in copper production: A review on systems design and methodological approaches. <i>Journal of Cleaner Production</i> , 2020, 246, 118978. | 9.3 | 33 |
| 14 | A confusion of tongues or the art of aggregating indicators? Reflections on four projective methodologies on sustainability measurement. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2385-2396. | 16.4 | 30 |
| 15 | Vertical bifacial photovoltaics – A complementary technology for the European electricity supply?. <i>Applied Energy</i> , 2020, 264, 114782. | 10.1 | 20 |
| 16 | Assessment of selected CCS technologies in electricity and synthetic fuel production for CO ₂ mitigation in South Africa. <i>Energy Policy</i> , 2013, 63, 168-180. | 8.8 | 19 |
| 17 | Streamlined life cycle analysis for assessing energy and exergy performance as well as impact on the climate for landfill gas utilization technologies. <i>Applied Energy</i> , 2017, 185, 805-813. | 10.1 | 15 |
| 18 | A plant-specific model approach to assess effects of repowering measures on existing biogas plants: The case of Baden-Wuerttemberg. <i>GCB Bioenergy</i> , 2019, 11, 85-106. | 5.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Environmental and economic assessment of international ethanol trade options for the German transport sector. Biomass and Bioenergy, 2012, 36, 20-30. | 5.7 | 12 |
| 20 | Life cycle assessment of a future central receiver solar power plant and autonomous operated heliostat concepts. Solar Energy, 2017, 157, 187-200. | 6.1 | 12 |
| 21 | Assessment of Household Solid Waste Generation and Composition by Building Type in Da Nang, Vietnam. Resources, 2019, 8, 171. | 3.5 | 12 |
| 22 | Greenhouse gas emissions and abatement costs of biofuel production in South Africa. GCB Bioenergy, 2012, 4, 799-810. | 5.6 | 11 |
| 23 | Integrated Analysis of Dispatchable Concentrated Solar Power. Energy Procedia, 2015, 69, 1711-1721. | 1.8 | 9 |
| 24 | Impact of field design and location on the techno-economic performance of fixed-tilt and single-axis tracked bifacial photovoltaic power plants. Solar Energy, 2020, 207, 564-578. | 6.1 | 9 |
| 25 | A case study on energy system optimization at neighborhood level based on simulated data: A building-specific approach. Energy and Buildings, 2021, 238, 110785. | 6.7 | 9 |
| 26 | Seasonal flexibilisation: A solution for biogas plants to improve profitability. Advances in Applied Energy, 2021, 2, 100034. | 13.2 | 8 |
| 27 | Integration of seawater pumped storage and desalination in multi-energy systems planning: The case of copper as a key material for the energy transition. Applied Energy, 2021, 299, 117298. | 10.1 | 8 |
| 28 | Development of Scenarios for a Multi-Model System Analysis Based on the Example of a Cellular Energy System. Energies, 2020, 13, 773. | 3.1 | 5 |
| 29 | Techno-economic evaluation of two hydrogen supply options to southern Germany: On-site production and import from Portugal. International Journal of Hydrogen Energy, 2022, 47, 25214-25228. | 7.1 | 4 |
| 30 | Opportunities to integrate solar technologies into the Chilean lithium mining industry – reducing process related GHG emissions of a strategic storage resource. AIP Conference Proceedings, 2017, , . | 0.4 | 3 |
| 31 | Solar energy alternatives for copper production. AIP Conference Proceedings, 2018, , . | 0.4 | 3 |
| 32 | Solar-powered pyrolysis of scrap rubber from mining truck end-of-life tires – A case study for the mining industry in the Atacama Desert, Chile. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 33 | Nachhaltigkeitsbewertung von Technologien zur Wärmebereitstellung in Wohngebäuden. , 2012, , 7-30. | | 1 |
| 34 | Renewable Energy: Resources and Technologies. Green Energy and Technology, 2013, , 15-32. | 0.6 | 1 |
| 35 | Extending the Operation of Existing Biogas Plants: Which Follow-Up Concepts and Plants Will Prevail?. Frontiers in Energy Research, 2021, 9, . | 2.3 | 1 |
| 36 | Barriers of implementing Clean Development Mechanism in South Africa: Building energy efficiency projects. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | CNG und LNG aus biogenen Reststoffen â€“ ein Konzept zur ressourcenschonenden Kraftstoffproduktion. Chemie-Ingenieur-Technik, 2020, 92, 144-155. | 0.8 | 0 |
| 38 | Cost-Optimized Heat and Power Supply for Residential Buildings: The Cost-Reducing Effect of Forming Smart Energy Neighborhoods. Energies, 2021, 14, 5093. | 3.1 | 0 |
| 39 | A solar furnace for copper smelting in Chile: assessment of economic benefits and reductions in greenhouse gas emissions. , 2017, , . | | 0 |
| 40 | How to Measure the Resilience of a Fully Renewable Multi-Vector Energy System?. , 2019, , . | | 0 |
| 41 | Repowering von Biogasanlagen â€“ ein Beitrag zur nachhaltigen Energieversorgung?. Technikzukunft, Wissenschaft Und Gesellschaft, 2020, , 309-342. | 0.1 | 0 |