*Annex 1*

*Table A1. The papers returned from the search query in SCOPUS*

|  | Title\* | Authors | Year | Source title | Author Keywords |
| --- | --- | --- | --- | --- | --- |
| 1 | A bottom-up definition of social acceptability: Territorial dynamics related to wind energy projects in Quebec (Canada) | Fortin M.-J., Fournis Y. | 2014 | Natures Sciences Societes | Conflict; Energy; Institutional capacities; Quebec; Social acceptability; Territory |
| 2 | A critique of degrowth and its politics | Schwartzman D. | 2012 | Capitalism, Nature, Socialism |  |
| 3 | A four-equation eddy-viscosity approach for modeling bypass transition | Xu G., Fu S. | 2014 | Advances in Applied Mathematics and Mechanics | Bypass transition; Free stream turbulence; Non-turbulent viscosity; Turbulence model |
| 4 | A framework for reviewing the trade-offs between, renewable energy, food, feed and wood production at a local level | Burgess P.J., Rivas Casado M., Gavu J., Mead A., Cockerill T., Lord R., Van Der Horst D., Howard D.C. | 2012 | Renewable and Sustainable Energy Reviews | Ecosystem; Energy; Food; Landscape; Wind; Wood |
| 5 | A grassroots sustainable energy niche? Reflections on community energy in the UK | Seyfang G., Hielscher S., Hargreaves T., Martiskainen M., Smith A. | 2014 | Environmental Innovation and Societal Transitions | Civil society; Energy transitions; Grassroots innovations; Strategic Niche Management; Sustainable innovations |
| 6 | A LPV model-based chilled water temperature controller for HVAC systems | Zhu J., Yang Q., Xu X., Lu J. | 2015 | Building Services Engineering Research and Technology | chilled water temperature control; HVAC; LPV model; model predictive control |
| 7 | A new strategic plan for a carbon tax | Stram B.N. | 2014 | Energy Policy | Alternative energy sources; Carbon tax strategy; Energy research and development |
| 8 | A non-local continuum damage approach to model dynamic crack branching | Wolff C., Richart N., Molinari J.-F. | 2015 | International Journal for Numerical Methods in Engineering | Brittle failure; Continuum damage model; Dynamic crack branching; Finite-element method; Non-local approach; PMMA |
| 9 | A practice approach to study the spatial dimensions of the energy transition | Faller F. | 2016 | Environmental Innovation and Societal Transitions | Energy transition; Geography; Social practices; Transition practices |
| 10 | A realistic EU vision of a lignite-based energy system in transition: Case study of Serbia | Batas Bjelić I., Rajaković N., Ćosić B., Duić N. | 2015 | Thermal Science | CO2 tax; Energy transition; Europe 202020 goals; Lignite; National energy system; Simulation model |
| 11 | A smart device for islanding detection in distribution system operation | Di Fazio A.R., Fusco G., Russo M., Valeri S., Noce C., Amura G. | 2015 | Electric Power Systems Research | Anti-islanding relay; Distributed generation; Distribution system; Distribution system protection; Islanding; Smart grids |
| 12 | A Society of Devices: Integrating Intelligent Distributed Resources with Transactive Energy | Kok K., Widergren S. | 2016 | IEEE Power and Energy Magazine |  |
| 13 | A supporting method for selecting cost-optimal energy retrofit policies for residential buildings at the urban scale | Delmastro C., Mutani G., Corgnati S.P. | 2016 | Energy Policy | Cost-optimal method; Residential buildings; Socio-economic factors; Space heating; Urban energy planning; Urban scale |
| 14 | A sustainable energy policy for Slovenia: Considering the potential of renewables and investment costs | Obrecht M., Denac M. | 2013 | Journal of Renewable and Sustainable Energy |  |
| 15 | A tale of two villages: Assessing the dynamics of fuelwood supply in communal landscapes in South Africa | Matsika R., Erasmus B.F.N., Twine W.C. | 2013 | Environmental Conservation | African savannahs; rural communities; sustainable harvesting; woodland structure |
| 16 | A theoretical analysis about the effect of aspect ratio on single-phase laminar flow in rectangular ducts | Xing D., Yan C., Wang C., Sun L. | 2013 | Progress in Nuclear Energy | Aspect ratio; Energy gradient method; Rectangular duct; Single-phase laminar flow; Skin friction; Transition Reynolds number |
| 17 | A thousand flowers blooming? An examination of community energy in the UK | Seyfang G., Park J.J., Smith A. | 2013 | Energy Policy | Civil society; Grassroots innovations; Sustainable energy |
| 18 | A transition perspective on alternatives to coal in Chinese district heating | Zhang J., Di Lucia L. | 2015 | International Journal of Sustainable Energy Planning and Management | China; District heating; Renewable energy; Transition |
| 19 | A versatile class of prototype dynamical systems for complex bifurcation cascades of limit cycles | Sándor B., Gros C. | 2015 | Scientific Reports |  |
| 20 | Achieving one-planet living through transitions in social practice: A case study of dancing rabbit ecovillage | Boyer R.H.W. | 2016 | Sustainability: Science, Practice, and Policy | Ecovillage; Intentional communities; One-planet living; Social practice theory; Social sustainability |
| 21 | Adaptation to Global Warming as an Optimal Transition Process to A Greenhouse World | Seo S.N. | 2015 | Economic Affairs | Adaptation; Global warming; Optimal transition; Private incentives |
| 22 | Agent-based distributed and economic automatic generation control for droop-controlled AC microgrids | Li Z., Zang C., Zeng P., Yu H., Li S. | 2016 | IET Generation, Transmission and Distribution |  |
| 23 | Agricultural Modernization and Climate Change in Vietnam's Post-Socialist Transition | Fortier F., Thi Thu Trang T. | 2013 | Development and Change |  |
| 24 | Aluminum-centered tetrahedron-octahedron transition in advancing Al-Sb-Te phase change properties | Xia M., Ding K., Rao F., Li X., Wu L., Song Z. | 2015 | Scientific Reports |  |
| 25 | An analysis of the challenges for groundwater governance during shale gas development in South Africa | Pietersen K., Kanyerere T., Levine A., Matshini A., Beekman H.E. | 2016 | Water SA | Groundwater; Shale gas; South Africa; Water governance |
| 26 | An experimental analysis of bed load transport in gravel-bed braided rivers with high grain Reynolds numbers | De Vincenzo A., Brancati F., Pannone M. | 2016 | Advances in Water Resources | Bed load transport; Bed profile semivariogram; Gravel-bed braided rivers; Laboratory experiments; River morphology; Stream power |
| 27 | An Italian pilot project for zero energy buildings: Towards a quality-driven approach | Dall'O' G., Bruni E., Sarto L. | 2013 | Renewable Energy | Energy certification; Energy efficiency; High-performance buildings; Zero emission buildings; Zero energy buildings |
| 28 | Analysis of olive grove residual biomass potential for electric and thermal energy generation in Andalusia (Spain) | García-Maraver A., Zamorano M., Ramos-Ridao A., Díaz L.F. | 2012 | Renewable and Sustainable Energy Reviews | Andalusia; Biomass; Olive tree; Renewable energy; Spain |
| 29 | Anatomy of the pulsating double layer source in the earth's magnetotail | Sarafopoulos D.V. | 2015 | Journal of Engineering Science and Technology Review | Double layers; Field-aligned currents; Magnetic reconnection; Plasma instabilities; Plasma sheet; Pulsating source |
| 30 | Are consumers willing to pay more for electricity from cooperatives? Results from an online Choice Experiment in Germany | Sagebiel J., Müller J.R., Rommel J. | 2014 | Energy Research and Social Science | Choice Experiments; Cooperatives; Energy transition |
| 31 | Are people responsive to a more sustainable, decentralized, and user-driven management of urban metabolism? | Chelleri L., Kua H.W., Sánchez J.P.R., Md Nahiduzzaman K., Thondhlana G. | 2016 | Sustainability (Switzerland) | Behavioral change; Bogotá; Change actor; Energy saving; Green infrastructure; People-centered approach; Saudi Arabia; South Africa; Sustainability transition |
| 32 | Assessing socio-technical mindsets: Public deliberations on carbon capture and storage in the context of energy sources and climate change | Einsiedel E.F., Boyd A.D., Medlock J., Ashworth P. | 2013 | Energy Policy | Carbon capture and storage; Climate change; Public deliberation |
| 33 | Assessment of investment efficiency in a power system under performance-based regulation | Božič D., Pantoš M. | 2013 | Energy | Investment planning; Linear programming; Monte Carlo simulation; Power system reliability |
| 34 | Astrocyte-derived adenosine is central to the hypnogenic effect of glucose | Scharbarg E., Daenens M., Lemaître F., Geoffroy H., Guille-Collignon M., Gallopin T., Rancillac A. | 2016 | Scientific Reports |  |
| 35 | Atomic structures of a liquid-phase bonded metal/nitride heterointerface | Kumamoto A., Shibata N., Nayuki K.-I., Tohei T., Terasaki N., Nagatomo Y., Nagase T., Akiyama K., Kuromitsu Y., Ikuhara Y. | 2016 | Scientific Reports |  |
| 36 | Battery energy storage system for frequency support in microgrids and with enhanced control features for uninterruptible supply of local loads | Serban I., Marinescu C. | 2014 | International Journal of Electrical Power and Energy Systems | Battery energy storage system; Frequency control; Microgrid; Single-phase inverter |
| 37 | Behind the development of technology: The transition of innovation modes in China's wind turbine manufacturing industry | Ru P., Zhi Q., Zhang F., Zhong X., Li J., Su J. | 2012 | Energy Policy | Innovation mode; Transition; Wind turbine manufacturing industry |
| 38 | Benefit or burden? Environmental justice and community-scale biomass energy systems in Vermont | Mittlefehldt S., Tedford C. | 2014 | Environmental Justice |  |
| 39 | Beyond technology and finance: pay-as-you-go sustainable energy access and theories of social change | Rolffs P., Ockwell D., Byrne R. | 2015 | Environment and Planning A | finance; Kenya; socio-technical transitions; solar PV; sustainable energy access |
| 40 | Big Pylons: Mixed signals for transmission. Spatial planning for energy distribution | Ritchie H., Hardy M., Lloyd M.G., McGreal S. | 2013 | Energy Policy | Energy distribution; Energy regulation; Spatial planning |
| 41 | Bioenergy consumption in rural China: Evidence from a survey in three provinces | Zhang R., Wei T., Glomsrød S., Shi Q. | 2014 | Energy Policy | Air pollution; Biomass; Energy transition; Renewable energy |
| 42 | Biofuels Investments in Tanzania: Policy Options for Sustainable Business Models | Hultman N.E., Sulle E.B., Ramig C.W., Sykora-Bodie S. | 2012 | Journal of Environment and Development | biofuels policy; business models; energy transitions; jatropha; Tanzania |
| 43 | Boundary organisations for resource mobilisation: Enhancing citizens' involvement in the Dutch energy transition | Hisschemöller M., Sioziou I. | 2013 | Environmental Politics | boundary organisations; energy transition; innovation; knowledge conflicts; renewable energy; social movements |
| 44 | Breakthrough without subsidies? PV business model experiments in the Netherlands | Huijben J.C.C.M., Verbong G.P.J. | 2013 | Energy Policy | Business model experiments; Dutch PV market; Up scaling |
| 45 | Capturing ultrafast photoinduced local structural distortions of BiFeO 3 | Wen H., Sassi M., Luo Z., Adamo C., Schlom D.G., Rosso K.M., Zhang X. | 2015 | Scientific Reports |  |
| 46 | Carbon footprint of a thermal energy storage system using phase change materials for industrial energy recovery to reduce the fossil fuel consumption | López-Sabirón A.M., Royo P., Ferreira V.J., Aranda-Usón A., Ferreira G. | 2014 | Applied Energy | Carbon footprint; Energy recovery; Fossil fuel; Phase Change Material (PCM); Thermal energy storage |
| 47 | Central-local relations in French energy policy-making: Towards a new pattern of territorial governance | Poupeau F.-M. | 2014 | Environmental Policy and Governance | Central-local relations; Decentralization; Energy transition; Local authorities; Territorial governance |
| 48 | Challenges for a shared European countryside of uncertain future. Towards a modern community-based landscape perspective | Pedroli B., Pinto Correia T., Primdahl J. | 2016 | Landscape Research | community-based; landscape diversity; Landscape transition; multifunctionality; peri-urban; remote; rural landscape |
| 49 | Challenging obduracy: How local communities transform the energy system | Van Der Schoor T., Van Lente H., Scholtens B., Peine A. | 2016 | Energy Research and Social Science | Community energy; Cooperatives; Energy transition; Renewable energy |
| 50 | Changing forest recovery dynamics in the northeastern United States | Klepeis P., Scull P., Lalonde T., Svajlenka N., Gill N. | 2013 | Area | Environmental history; Forest transition theory; Land use; Land-cover change; New York State; Remote sensing |
| 51 | Chemical stability of epoxy functionalizations of graphene: A density functional theory study | Zhou S., Bongiorno A. | 2013 | Perspectives on Politics |  |
| 52 | China's State Energy Investment during 1991–2007: Investment Analysis and Policy Issues | Bo H., Zhang B., Oughton C., Yuan X., Ma J. | 2016 | Regional Studies | China's state energy investment; Energy demand; Energy productivity; Generalized method of moments (GMM); Policy objectives |
| 53 | Citizens' willingness to participate in local renewable energy projects: The role of community and trust in Germany | Kalkbrenner B.J., Roosen J. | 2016 | Energy Research and Social Science | Citizen participation; Community energy; Community identity; Energy transition; Pro-environmental behavior; Social norms |
| 54 | Cleaning the energy sources for water heating among Nanjing households: Barriers and opportunities for solar and natural gas | Zhu L., Liu B., Bi J. | 2014 | Frontiers of Environmental Science and Engineering | multinomial logit model; residential energy demand; water heating |
| 55 | Climate-Energy Policies, Heat Provision, and Urban Planning: A Renewal of Interest in District Heating in France: Insights from National and Local Levels | Rocher L. | 2014 | Journal of Urban Technology | climate and energy policies; District heating; networks; urban planning |
| 56 | Collaborative governance for sustainable development: Wind resource assessment in Xinjiang and Guangdong Provinces, China | Mah D.N.-Y., Hills P. | 2012 | Sustainable Development | China; Collaboration; Governance; Sustainable energy; Wind energy; Wind resource assessment |
| 57 | Collective ownership in renewable energy and opportunities for sustainable degrowth | Kunze C., Becker S. | 2015 | Sustainability Science | Community energy; Degrowth; Energy cooperatives; Energy geography; Energy transition; Remunicipalisation; Renewable energy |
| 58 | Collective response or individual adaptation strategy to funding cuts in Canada (2006-2012) | Gliedt T., Parker P. | 2014 | International Journal of Social Economics | Green community entrepreneurship; Organizational adaptation; Resilience; Social entrepreneurship; Transformation; Transition |
| 59 | Communities matter: Institutional preconditions for community renewable energy | Wirth S. | 2014 | Energy Policy | Biogas cooperatives; Community energy; Institutional forces |
| 60 | Community perceptions of renewable energies in Portugal: Impacts on environment, landscape and local development | Delicado A., Figueiredo E., Silva L. | 2016 | Energy Research and Social Science | Environmental impact; Socioeconomic impact; Solar energy; Wind energy |
| 61 | Comparative assessment of PSI air oxidation model implementation in SCDAPSim3.5, MELCOR 1.8.6 and MELCOR 2.1 | Fernandez-Moguel L. | 2015 | Annals of Nuclear Energy | Air oxidation; Breakaway; Modelling; QUENCH |
| 62 | Complex network analysis of phase dynamics underlying oil-water two-phase flows | Gao Z.-K., Zhang S.-S., Cai Q., Yang Y.-X., Jin N.-D. | 2016 | Scientific Reports |  |
| 63 | Complex spectral evolution in a BCS superconductor, ZrB 12 | Thakur S., Biswas D., Sahadev N., Biswas P.K., Balakrishnan G., Maiti K. | 2013 | Scientific Reports |  |
| 64 | Conflicted or constructive? Exploring community responses to new energy developments in Canada | Shaw K., Hill S.D., Boyd A.D., Monk L., Reid J., Einsiedel E.F. | 2015 | Energy Research and Social Science | Climate change; Community; Governance; Local context; Low-carbon energy systems; Resistance |
| 65 | Contextual and psychological factors shaping evaluations and acceptability of energy alternatives: Integrated review and research agenda | Perlaviciute G., Steg L. | 2014 | Renewable and Sustainable Energy Reviews | Acceptability; Contextual factors; Energy alternatives; Psychological factors; Sustainability; Values |
| 66 | Contributing to a green energy economy? A macroeconomic analysis of an energy efficiency program operated by a Swiss utility | Yushchenko A., Patel M.K. | 2016 | Applied Energy | Employment; Energy efficiency program; GDP; Green economy; Input–output; Macroeconomic impacts |
| 67 | Cooperative fuzzy model predictive control for heating and cooling of buildings | Killian M., Mayer B., Kozek M. | 2016 | Energy and Buildings | Building control; Cooperative FMPC; Fuzzy MPC; Grey-box modelling |
| 68 | Creating consciousness about the opportunities to integrate sustainable energy on islands | Möller B., Sperling K., Nielsen S., Smink C., Kerndrup S. | 2012 | Energy | Cradle to cradle; Energy models; Islands; Public participation; Sustainable energy |
| 69 | Critical factors affecting thermal cracking of asphalt pavements: Towards a comprehensive specification | Velasquez R., Bahia H. | 2013 | Road Materials and Pavement Design | asphalt binders; asphalt mastics; asphalt mixtures; coefficient of thermal contraction; fracture energy; fracture mechanics; glass transition; low-temperature cracking; thermal strain |
| 70 | Crystallization pathways of liquid-bcc transition for a model iron by fast quenching | Pan S.-P., Feng S.-D., Qiao J.-W., Wang W.-M., Qin J.-Y. | 2015 | Scientific Reports |  |
| 71 | Data on energy-band-gap characteristics of composite nanoparticles obtained by modification of the amorphous potassium polytitanate in aqueous solutions of transition metal salts | Zimnyakov D.A., Sevrugin A.V., Yuvchenko S.A., Fedorov F.S., Tretyachenko E.V., Vikulova M.A., Kovaleva D.S., Krugova E.Y., Gorokhovsky A.V. | 2016 | Data in Brief |  |
| 72 | Decentralisation dynamics in energy systems: A generic simulation of network effects | Kubli M., Ulli-Beer S. | 2016 | Energy Research and Social Science | Energy systems; Transition Network effects; Distributed generation; Death spiral; Simulation; System Dynamics |
| 73 | Decentralised combined heat and power in the German Ruhr Valley; assessment of factors blocking uptake and integration | Viétor B., Hoppe T., Clancy J. | 2015 | Energy, Sustainability and Society | Decentralised CHP; Energy efficiency; Energy transition; Multilevel perspective |
| 74 | Decentralised laboratories in the German energy transition. Why local renewable energy initiatives must reinvent themselves | Beermann J., Tews K. | 2016 | Journal of Cleaner Production | Decentralised experimentation; Multi-level governance; Energy transition; Germany; Renewable energy support scheme |
| 75 | Degrowth and demonetization: On the limits of a non-capitalist market economy | Exner A. | 2014 | Capitalism, Nature, Socialism |  |
| 76 | Development of a novel refrigeration system for refrigerated trucks incorporating phase change material | Liu M., Saman W., Bruno F. | 2012 | Applied Energy | Phase change material; Refrigerated transport; Supercooling; Thermal energy storage |
| 77 | Development of innovation systems for small island states: A functional analysis of the Barbados solar water heater industry | Rogers T. | 2016 | Energy for Sustainable Development | Innovation systems; Small island developing states; Solar water heaters |
| 78 | Development policy to increase the competitiveness of renewable energy-sector companies in a territory like Corsica (France) | Cristofari C., Storai C., Canaletti J.L. | 2014 | Renewable and Sustainable Energy Reviews | Business cluster; Energy; Local target of investments; Policy; Regional branding; Technological research; Territorial governance |
| 79 | Discontinuous nature of the repulsive-to-attractive colloidal glass transition | Van De Laar T., Higler R., Schroën K., Sprakel J. | 2016 | Scientific Reports |  |
| 80 | DNA stretching modeled at the base pair level: Overtwisting and shear instability in elastic linkages | Kocsis A., Swigon D. | 2012 | International Journal of Non-Linear Mechanics | Bifurcations; Discrete elastic model; DNA mechanics; Overstretching; Simplex algorithm |
| 81 | Does civil society matter? Challenges and strategies of grassroots initiatives in Italy's energy transition | Magnani N., Osti G. | 2016 | Energy Research and Social Science | Civil society; Community renewable energy; Energy cooperatives; Energy transition; Italy |
| 82 | Dynamics of energy transitions under changing socioeconomic, technological and climate conditions in Northwest Germany | Ruth M., Özgün O., Wachsmuth J., Gößling-Reisemann S. | 2015 | Ecological Economics | Regional integrated assessment; Energy transitions; Renewable energy; Regional development; Stakeholder engagement; Simulation modeling |
| 83 | E-beam-induced in situ structural transformation in one-dimensional nanomaterials | Dai S., He M.-R., Zhu J. | 2015 | Science Bulletin | Electron beam effect; In situ electron microscopy; Si nanowires; Structure transformation; ZnO nanowires |
| 84 | Economics and greenhouse gas balance of biogas use systems in the Finnish transportation sector | Uusitalo V., Soukka R., Horttanainen M., Niskanen A., Havukainen J. | 2013 | Renewable Energy | Biogas; Biomethane; Economics; Greenhouse gas; Transportation fuel |
| 85 | Ectomycorrhizal fungal traits reflect environmental conditions along a coastal California edaphic gradient | Moeller H.V., Peay K.G., Fukami T. | 2014 | FEMS Microbiology Ecology | Ectomycorrhizae; Environmental gradients; Exploration types; Foraging traits; Mutualisms; Pinus muricata |
| 86 | Editorial - International journal of sustainable energy planning and management | Østergaard P.A. | 2015 | International Journal of Sustainable Energy Planning and Management | District heating transition; Integration of energy sectors; Solar mapping |
| 87 | Effect of Pressure on the Electronic and Magnetic Properties of a Few Mn-Based Half-Metallic Compounds | Banu I.B.S., Sirajuddeen M.M.S. | 2014 | Arabian Journal for Science and Engineering | Electron density of states; Half-Heusler compounds; Magnetic moment; Magnetic phase transition; Spin energy gap |
| 88 | Effects of supply chain structure and biomass prices on bioenergy feedstock supply | De Laporte A.V., Weersink A.J., McKenney D.W. | 2016 | Applied Energy | Bioenergy feedstock supply; Bioenergy policy; Bioenergy supply chain; Biomass supply; Integrated analysis |
| 89 | Electricity sector transformation in New Zealand: A sustainability assessment approach | Suomalainen K., Sharp B. | 2016 | Journal of Renewable and Sustainable Energy |  |
| 90 | Electronic transport in two-dimensional high dielectric constant nanosystems | Ortuño M., Somoza A.M., Vinokur V.M., Baturina T.I. | 2015 | Scientific Reports |  |
| 91 | Emergent synchronisation properties of a refrigerator demand side management system | Kremers E., González de Durana J.M., Barambones O. | 2013 | Applied Energy | Complex systems; Electrical grid frequency control; Multi-agent simulation; Refrigerator load modelling; Spontaneous synchronisation phenomena; Under-frequency load shedding |
| 92 | Empirical evidence of the impact of commercial charcoal production on Woodland in the Forest-Savannah transition zone, Ghana | Aabeyir R., Adu-Bredu S., Agyare W.A., Weir M.J.C. | 2016 | Energy for Sustainable Development | Basal area; Charcoal production; CO2 emission; Harvested trees; Remnant trees |
| 93 | Energetic communities for community energy: A review of key issues and trends shaping integrated community energy systems | Koirala B.P., Koliou E., Friege J., Hakvoort R.A., Herder P.M. | 2016 | Renewable and Sustainable Energy Reviews | Distributed energy resources; Local energy systems; Energy systems integration; Self-organized energy communities; Smart grids; Flexibility |
| 94 | Energy and complexity: New ways forward | Bale C.S.E., Varga L., Foxon T.J. | 2015 | Applied Energy | Agent-based modelling; Complex adaptive systems; Complexity science; Energy policy; Energy systems; Modelling |
| 95 | Energy configuration and operation optimization of refinery fuel gas networks | Zhou L., Liao Z., Wang J., Jiang B., Yang Y., Du W. | 2015 | Applied Energy | Fuel gas system; Mathematical modeling; MPEC; Optimization; Scheduling |
| 96 | Energy sector of Kazakhstan: Current state and prospects of development | Dulambayeva R.T., Boluspayev S.A., Daribayeva M.Z., Nurmaganbetova M.T. | 2013 | World Applied Sciences Journal | Energy sector; Fuel and energy complex; Oil production and refining |
| 97 | Energy sprawl, land taking and distributed generation: towards a multi-layered density | Moroni S., Antoniucci V., Bisello A. | 2016 | Energy Policy | Distributed generation; Energy sprawl; Prosumers; Renewable energy; Smart grid; Urban density |
| 98 | Energy transition in and by the local media: The public emergence of an 'Energy Town' | Horsbøl A. | 2013 | Nordicom Review | Climate change; Discourse; Environmental communication; Frame analysis; Journalism; Local media |
| 99 | Energy transition: Missed opportunities and emerging challenges for landscape planning and designing | de Waal R.M., Stremke S. | 2014 | Sustainability (Switzerland) | Climate change mitigation; Güssing; Jühnde; Landscape architecture; Operational design; Renewable energy; Samsø; Strategic design; Sustainable energy landscapes; Transition management |
| 100 | Energy transitions in Kenya's tea sector: A wind energy assessment | Nordman E.E. | 2014 | Renewable Energy | Economics; Energy transitions; Kenya; Tea; Wind energy |
| 101 | Energy transitions in small-scale regions - What we can learn from a regional innovation systems perspective | Mattes J., Huber A., Koehrsen J. | 2015 | Energy Policy | Cities; Energy transitions; Regional innovation systems |
| 102 | Engineering difference: Matrix design determines community composition in wastewater treatment systems | Harris J.A., Baptista J.D.C., Curtis T.P., Nelson A.K., Pawlett M., Ritz K., Tyrrel S.F. | 2012 | Ecological Engineering | Complexity; Engineered diversity; Microbiological diversity; Physical heterogeneity; Wastewater treatment |
| 103 | Environmental assessment of integrated food and cooking fuel production for a Village in Ghana | Kamp A., Østergård H., Bolwig S. | 2016 | Sustainability (Switzerland) | Agroforestry; Biogas; Case study; Emergy; Ghana; Nutrient recycling; Sustainable development; Transition |
| 104 | Environmental awareness, the Transition Movement, and place: Den Selvforsynende Landsby, a Danish Transition initiative | Mälgand M., Bay-Mortensen N., Bedkowska B., Hansen F.N., Schow M., Thomsen A.A., Hunka A.D. | 2014 | Geoforum | Climate change; Constructed landscape; Environmental awareness; Peak oil; Place attachment; Transition Network |
| 105 | Ethical consumption: Uncovering personal meanings and negotiation strategies | Subrahmanyan S., Stinerock R., Banbury C. | 2015 | Geoforum | Basic needs; Culture; Enduring practices; Ethical consumption; Negotiation strategies; Researcher introspection |
| 106 | Evaluating the energy and CO2 emissions impacts of shifts in residential water heating in the United States | Sanders K.T., Webber M.E. | 2015 | Energy | Energy efficiency; Energy-water nexus; Greenhouse gas emissions; Solar hot water heating |
| 107 | Evolution of crystallographic texture and strain in a fine-grained Ni3Al (Zr, B) intermetallic alloy during cold rolling | Polkowski W., Józwik P., Karczewski K., Bojar Z. | 2014 | Archives of Civil and Mechanical Engineering | Cold rolling; Intermetallics; Microstructure; Microtexture; Plastic deformation |
| 108 | Examining the social acceptance of wind energy: Practical guidelines for onshore wind project development in France | Enevoldsen P., Sovacool B.K. | 2016 | Renewable and Sustainable Energy Reviews | Business development; French wind energy; Local acceptance; Project Management; Wind project development |
| 109 | Exergy transition planning for net-zero districts | Kilkiş Ş. | 2015 | Energy | Analysis tools; CO2 emissions; Exergy; Multi-criteria index; Net-zero districts; Transition |
| 110 | Explaining the diversity of motivations behind community renewable energy | Bauwens T. | 2016 | Energy Policy | Community; Flanders; Institutions; Investments; Renewable energy; Social norms |
| 111 | Exploring the transition potential of renewable energy communities | Do´ ci G., Vasileiadou E., Petersen A.C. | 2015 | Futures | Multi Level Perspective; Social niche; Social innovation; Renewable energy communities |
| 112 | Extraordinary interventions: Toward a framework for rapid transition and deep emission reductions in the energy space | Bromley P.S. | 2016 | Energy Research and Social Science | Energy transition; Innovation; Intervention; Policy |
| 113 | Fault location and isolation in micro-grids using a digital central protection unit | Mirsaeidi S., Said D.M., Mustafa M.W., Habibuddin M.H., Ghaffari K. | 2016 | Renewable and Sustainable Energy Reviews | Central protection unit; Fault isolation; Fault location; Grid-connected mode; Islanded mode; Micro-grid |
| 114 | Feeding and healing the world: Through regenerative agriculture and permaculture | Rhodes C.J. | 2013 | Science Progress | Biochar; Carbon capture; Desertification; Forest garden; Fracking; Glomalin; Hydraulic fracturing; Mineral deficiency; Obesity epidemic; Peak oil; Permaculture; Plant nutrition; Regenerative agriculture; Shale gas and oil; Soil degradation; Soil fungi; Transition town; Vitamin deficiency; Water treatment |
| 115 | Financial evaluation of two models for energy production in small French farm forests | Elyakime B., Cabanettes A. | 2013 | Renewable Energy | Farm forest; Firewood; Management; Renewable energy |
| 116 | Financing the civic energy sector: How financial institutions affect ownership models in Germany and the United Kingdom | Hall S., Foxon T.J., Bolton R. | 2016 | Energy Research and Social Science | Civic energy sector; Energy ownership; Energy transitions; Institutional economics |
| 117 | Firewood supply and consumption in the context of agrarian change: The Northern Argentine Chaco from 1990 to 2010 | Krapovickas J., Sacchi L.V., Hafner R. | 2016 | International Journal of the Commons | Agribusiness; Chaco; Common-pool resources; Energy ladder; Firewood; Forest |
| 118 | Forests, fuelwood and livelihoods-energy transition patterns in eastern Indonesia | Lee S.M., Kim Y.-S., Jaung W., Latifah S., Afifi M., Fisher L.A. | 2015 | Energy Policy | Energy stacking; Energy transition; Forest management; Fuelwood; Indonesia; Tobacco curing |
| 119 | Formation energy of native point defects in LaBr3 | Zhou G., Liu L., Wang Z. | 2014 | Wuhan University Journal of Natural Sciences | formation energy; lanthanum bromide; native point defects |
| 120 | Fourier analysis of the roll-up and merging of coherent structures in shallow mixing layers | Lam M.Y., Ghidaoui M.S. | 2014 | Environmental Fluid Mechanics | Coherent structures; Fourier modes; Merging; Shallow mixing layers |
| 121 | French policy localism: Surfing on 'Positive Energie Territories' (Tepos) | Nadaï A., Labussière O., Debourdeau A., Régnier Y., Cointe B., Dobigny L. | 2015 | Energy Policy | Energy transition; France; Grass roots initiatives; Localism; Rural |
| 122 | From ‘energy geography’ to ‘energy geographies’: Perspectives on a fertile academic borderland | Calvert K. | 2016 | Progress in Human Geography | energy GIS; interdisciplinary; production of space; renewable energy; transition |
| 123 | FTT:Power A global model of the power sector with induced technological change and natural resource depletion | Mercure J.-F. | 2012 | Energy Policy | Climate change mitigation; Energy technology model; Induced technological change |
| 124 | Full counting statistics of quantum dot resonance fluorescence | Matthiesen C., Stanley M.J., Hugues M., Clarke E., Atatüre M. | 2014 | Scientific Reports |  |
| 125 | Gendering extraction: Expectations and identities in women's motives for shale energy opposition | Willow A.J., Keefer S. | 2015 | Journal of Research in Gender Studies | Environmental activism; Ethnography; Femininities; ohio; Shale energy; Women and social movements |
| 126 | Generating functionals for autonomous latching dynamics in attractor relict networks | Linkerhand M., Gros C. | 2013 | Scientific Reports |  |
| 127 | German and Danish case studies :«The city of projects»: A strategy for change and acceptance in sustainable urban development | Tenberg B. | 2012 | Euroheat and Power (English Edition) |  |
| 128 | Global complexity effects due to local damping in a nonlinear system in 1:3 internal resonance | Krack M., Bergman L.A., Vakakis A.F. | 2016 | Archive of Applied Mechanics | Damping; Dissipation; Modal interaction; Mode complexity; Multiple scales; Nonlinear normal modes |
| 129 | Global stability of an aluminum foam stand-alone energy absorber | Iluk A. | 2013 | Archives of Civil and Mechanical Engineering | Aluminum foam; Energy absorbers; Global buckling; Stability |
| 130 | Going beyond incomes: Dimensions of cooking energy transitions in rural India | Sehjpal R., Ramji A., Soni A., Kumar A. | 2014 | Energy | Energy access; Household choices; Logit model |
| 131 | Governing community energy-Feed-in tariffs and the development of community wind energy schemes in the United Kingdom and Germany | Nolden C. | 2013 | Energy Policy | Community energy; Feed-in tariff; Governance of innovation diffusion |
| 132 | Governing sustainability: A discourse-institutional approach | Genus A. | 2014 | Sustainability (Switzerland) | Critical discourse analysis; Institutional theory; Sustainable communities; Transition to sustainability |
| 133 | Governing the electric vehicle transition – Near term interventions to support a green energy economy | Nilsson M., Nykvist B. | 2016 | Applied Energy | Battery-electric vehicles; BEV; Governance; Multi-level perspective; Scenarios; Socio-technical transition |
| 134 | Grassroots innovations in community energy: The role of intermediaries in niche development | Hargreaves T., Hielscher S., Seyfang G., Smith A. | 2013 | Global Environmental Change | Community energy; Grassroots innovation; Intermediary actors; Strategic niche management |
| 135 | Green economy’s prospects in Russia: Case of Baikal area | Pakina A.A. | 2014 | Journal of Sustainable Development of Energy, Water and Environment Systems | Baikal area; Economic growth; Environmental services; Green economy; Renewable resources |
| 136 | Green energy clusters and socio-technical transitions: Analysis of a sustainable energy cluster for regional economic development in Central Massachusetts, USA | McCauley S.M., Stephens J.C. | 2012 | Sustainability Science | Clusters; Energy innovation; Energy systems; Green energy; Niche; Socio-technical transitions |
| 137 | Greenhouse gas impact of dual stream and single stream collection and separation of recyclables | Fitzgerald G.C., Krones J.S., Themelis N.J. | 2012 | Resources, Conservation and Recycling | Carbon footprint; Dual stream; Energy audit; Material recovery facility; Municipal solid waste; Recycling; Single stream |
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| 141 | Heterogeneity of Lock-In and the Role of Strategic Technological Interventions in Urban Infrastructural Transformations | Maassen A. | 2012 | European Planning Studies |  |
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| 144 | How buildings learn: Adaptation of low grade commercial buildings for sustainability in Melbourne | Wilkinson S.J. | 2014 | Facilities | Building adaptation; Low grade stock; Melbourne; Offices |
| 145 | Hybrid Energy governance | Osofsky H.M., Wiseman H.J. | 2014 | University of Illinois Law Review |  |
| 146 | Identifying renewable energy and building renovation solutions in the Baltic Sea region: The case of Kaliningrad Oblast | Raslavičius L., Kučinskas V., Jasinskas A., Bazaras Ž. | 2014 | Renewable and Sustainable Energy Reviews | Bioenergy sector; Buildings renovation; Kaliningrad Oblast; Renewable energy solutions; Russian Baltic exclave |
| 147 | Improving the efficiency of wall materials for «green» building through the use of aluminosilicate raw materials | Volodchenko A.A., Lesovik V.S., Volodchenko A.N., Zagorodnjuk L.H. | 2015 | International Journal of Applied Engineering Research | "green" composites; Aluminosilicate raw materials; Building materials; Clay rocks; Heat and humidity treatment; Structure formation; Wall materials |
| 148 | Improving the mechanism of the state regulation of innovation activity in the russian federation | Arkatov A.Y. | 2013 | World Applied Sciences Journal | Authority; Business; Community; Competition; Concept; Culture; Innovation; Investment; Program; Property; Script; State; The people |
| 149 | Incompatible Sets of Gradients and Metastability | Ball J.M., James R.D. | 2015 | Archive for Rational Mechanics and Analysis |  |
| 150 | India's biophysical economy, 1961-2008. Sustainability in a national and global context | Singh S.J., Krausmann F., Gingrich S., Haberl H., Erb K.-H., Lanz P., Martinez-Alier J., Temper L. | 2012 | Ecological Economics | Human appropriation of net primary production (HANPP); India; Material flow accounting; Social metabolism; Socio-metabolic transitions |
| 151 | Industrial fields and countervailing power: The transformation of distributed solar energy in the United States | Hess D.J. | 2013 | Global Environmental Change | Distributed; Financing; Renewable; Solar; Technology; Transitions |
| 152 | Influence of vertical and lateral heat transfer on permafrost thaw, peatland landscape transition, and groundwater flow | Kurylyk B.L., Hayashi M., Quinton W.L., McKenzie J.M., Voss C.I. | 2016 | Water Resources Research | climate change; groundwater; heat advection; landscape evolution; peatland; soil freeze-thaw |
| 153 | Infrared evidence of a Slater metal-insulator transition in NaOsO3 | Lo Vecchio I., Perucchi A., Di Pietro P., Limaj O., Schade U., Sun Y., Arai M., Yamaura K., Lupi S. | 2013 | Scientific Reports |  |
| 154 | Integrated planning for transition to low-carbon distribution system with renewable energy generation and demand response | Zeng B., Zhang J., Yang X., Wang J., Dong J., Zhang Y. | 2014 | IEEE Transactions on Power Systems | Distribution system planning; low-carbon characteristics; real-time pricing (RTP); renewable distributed generation (RDG); smart metering (SM); uncertainty |
| 155 | Interaggregate forces and energy potential effect on clay deformation | Hattab M., Chang C.S. | 2015 | Journal of Engineering Mechanics | Aggregates; Clays; Clays behavior; Energy potential; Mechanics; Micro-macro modeling; Micromechanics; Microstructure; Microstructures; Particulate media; Physical-chemical properties |
| 156 | Intrinsic femtosecond charge generation dynamics in single crystal CH3NH3PbI3 | Valverde-Chávez D.A., Ponseca C.S., Stoumpos C.C., Yartsev A., Kanatzidis M.G., Sundström V., Cooke D.G. | 2015 | Energy and Environmental Science |  |
| 157 | Introducing modern energy services into developing countries: The role of local community socio-economic structures | Ortiz W., Dienst C., Terrapon-Pfaff J. | 2012 | Sustainability | Community-based projects; Socio-technical transitions; Sustainable energy technologies; Wisions initiative |
| 158 | Investigations on car emissions under the urban traffic conditions with the influence on Timişoara air quality | Negoiţescu A., Tokar A. | 2013 | Transport | air quality; exhaust emission; experimental simulation; LPG; Otto engine; petrol; route; urban traffic |
| 159 | Japan's post-Fukushima reconstruction: A case study for implementation of sustainable energy technologies | Nesheiwat J., Cross J.S. | 2013 | Energy Policy | Energy; Japan; Reconstruction |
| 160 | Justification for the outlooks of design and application of local recirculation diffusers for energy-efficient ventilation systems | Kapko D.V., Shkarpet V.E., Balandina L.Y., Kochariantc K.V., Esaulov G.V. | 2016 | International Journal of Applied Engineering Research | Air diffuser; Air processing capacity; Circuit; Energy consumption reduction; Energy efficiency; LRD; Parametric series; Recirculation; Ventilation |
| 161 | Large-scale integration of renewable energies and impact on storage demand in a European renewable power system of 2050-Sensitivity study | Bussar C., Stöcker P., Cai Z., Moraes L., Jr., Magnor D., Wiernes P., Bracht N.V., Moser A., Sauer D.U. | 2016 | Journal of Energy Storage | Energy storage; Europe 2050; Optimisation; Power system; Renewable energy; Strategic planning |
| 162 | Learning (or living) to love the landscapes of hydroelectricity in Canada: Eliciting local perspectives on the Mactaquac Dam via headpond boat tours | Sherren K., Beckley T.M., Parkins J.R., Stedman R.C., Keilty K., Morin I. | 2016 | Energy Research and Social Science | Dam removal; Focus groups; Landscape elicitation; Social license |
| 163 | Letter from the Editors - Fourth international symposium on naturalistic driving research | Liu Z., Ivanco A., Filipi Z. | 2015 | Journal of Safety Research | K-means clustering; Markov chain; Naturalistic drive cycle; Pickup trucks; Real-world driving; Representative drive cycle; Transition Probability Matrix (TPM) |
| 164 | Link tracking: Quantifying network flows from qualitative node-link digraphs | Patten B.C. | 2015 | Ecological Modelling | EcoNet; Environs; Eulerian; Holistic determination; Lagrangian; Link tracking; Microcosms; Oyster model; Particle tracking; Radiocesium; Ukrainian food webs |
| 165 | Lithium and oxygen vacancies and their role in Li<inf>2</inf>O<inf>2</inf> charge transport in Li-O<inf>2</inf> batteries | Varley J.B., Viswanathan V., Nørskov J.K., Luntz A.C. | 2014 | Energy and Environmental Science |  |
| 166 | Loads and propulsive efficiency of a flexible airfoil performing sinusoidal deformations | Ulrich X., Peters D. | 2014 | Journal of Fluids and Structures | Flexible airfoil; High Reynolds number; Sinusoidal motion; State-space airloads theory |
| 167 | Local authorities as niche actors: The case of energy governance in the UK | Fudge S., Peters M., Woodman B. | 2016 | Environmental Innovation and Societal Transitions | Energy governance; Local authorities; Multi-Level Perspective; Sustainability; Transition |
| 168 | Local bifurcations of electric distribution networks with renewable energy | Sheng H., Chiang H.-D., Jiang Y.-F. | 2014 | International Journal of Bifurcation and Chaos | Electric distribution networks; large-scale; local bifurcation; power systems; renewable energy |
| 169 | Local civil society based renewable energy organisations in the Netherlands: Exploring the factors that stimulate their emergence and development | Boon F.P., Dieperink C. | 2014 | Energy Policy | Decentralised generation; Local renewable energy organisation; Netherlands; Renewable energy |
| 170 | Local community as shareholders in clean energy projects: Innovative strategy for accelerating renewable energy deployment in India | Thapar S., Sharma S., Verma A. | 2017 | Renewable Energy | Community energy models; Equitable growth; Sweat equity |
| 171 | Local Demonstrations for Global Transitions-Dynamics across Governance Levels Fostering Socio-Technical Regime Change Towards Sustainability | Späth P., Rohracher H. | 2012 | European Planning Studies |  |
| 172 | Local energy efficiency programs: A monitoring methodology for heating systems | Aste N., Buzzetti M., Caputo P., Manfren M. | 2014 | Sustainable Cities and Society | Carbon emission reduction; Energy efficiency programs; Multi-criteria analysis |
| 173 | Local energy policy and managing low carbon transition: The case of Leicester, UK | Lemon M., Pollitt M.G., Steer S. | 2015 | Energy Strategy Reviews | Energy transition; Local authorities; Local energy policy |
| 174 | Local Energy Transition and Multilevel Climate Governance: The Contrasted Experiences of Two Pioneer Cities (Hanover, Germany, and Växjö, Sweden) | Emelianoff C. | 2014 | Urban Studies | Hanover; local climate governance; low carbon city; multilevel climate governance; urban energy transition; Växjö |
| 175 | Local governments supporting local energy initiatives: Lessons from the best practices of Saerbeck (Germany) and Lochem (The Netherlands) | Hoppe T., Graf A., Warbroek B., Lammers I., Lepping I. | 2015 | Sustainability (Switzerland) | Civil society; Energy transition; Governance; Grassroots innovation; Leadership; Local capacity; Local energy initiatives; Low carbon; Strategic niche management |
| 176 | Local head loss coefficients of riffle pools in gravel-bed rivers | MacVicar B. | 2013 | Journal of Hydraulic Engineering | Energy coefficient; Head loss; Resistance partitioning; Riffle pool; Stream restoration |
| 177 | Local niche experimentation in energy transitions: A theoretical and empirical exploration of proximity advantages and disadvantages | Coenen L., Raven R., Verbong G. | 2010 | Technology in Society | Strategic Niche Management; Geography of innovation; Sustainability transitions; Experiments; Energy storage |
| 178 | Local power: Exploring the motivations of mayors and key success factors for local municipalities to go 100% renewable energy | Busch H., McCormick K. | 2014 | Energy, Sustainability and Society | Climate change; Energy policies; Local environmental governance; Local municipalities; Renewable energy; Sustainable development |
| 179 | Local renewable energy cooperatives: revolution in disguise? | Hufen J.A.M., Koppenjan J.F.M. | 2015 | Energy, Sustainability and Society | Bottom-up innovation; Energy innovation systems; Energy transition; Local renewable energy; Local renewable energy cooperatives; Radical innovation |
| 180 | Low Carbon Governance: Mobilizing Community Energy through Top-Down Support? | Markantoni M. | 2016 | Environmental Policy and Governance | community renewable energy; evolutionary governance; multi-level governance |
| 181 | Low energy electron imaging of domains and domain walls in magnesium-doped lithium niobate | Nataf G.F., Grysan P., Guennou M., Kreisel J., Martinotti D., Rountree C.L., Mathieu C., Barrett N. | 2016 | Scientific Reports |  |
| 182 | Lusatia and the coal conundrum: The lived experience of the German Energiewende | Morton T., Müller K. | 2016 | Energy Policy | Climate change; Coal; Energiewende; Energy policy; Energy transition; Lusatia; Renewable energy |
| 183 | Magnetic pulse welding of two dissimilar materials with various combinations adopted in nuclear applications | Kudiyarasan S., Arungalai Vendan S. | 2015 | Indian Journal of Science and Technology | Dissimilar metals; Inter-metallic phases transfer; Interfaces; Magnetic pulse welding; Welding |
| 184 | Making the most of community energies: Three perspectives on grassroots innovation | Smith A., Hargreaves T., Hielscher S., Martiskainen M., Seyfang G. | 2016 | Environment and Planning A | community energy; critical niches; energy transitions; Grassroots innovation; strategic niche management |
| 185 | Massive energy storage systems enable secure electricity supply from renewables | Sangster A.J. | 2016 | Journal of Modern Power Systems and Clean Energy | Climate change; Electricity grid; Energy storage; Hydraulic piston; Lagoon storage; Pumped-hydro |
| 186 | Meeting the climate change challenge: a scan of greenhouse gas emissions in BC communities | Burch S., Herbert Y., Robinson J. | 2015 | Local Environment | climate change; communities; greenhouse gas emissions; transitions |
| 187 | Migration and fuel use in rural Mexico | Manning D.T., Taylor J.E. | 2014 | Ecological Economics | Economic linkages; Fuel transition; Migration; Rural energy use |
| 188 | Mitigating environmental impacts through the energetic use of wood: Regional displacement factors generated by means of substituting non-wood heating systems | Wolf C., Klein D., Richter K., Weber-Blaschke G. | 2016 | Science of the Total Environment | Displacement; Energy; Heat; LCA; Regional; Substitution |
| 189 | Molecular interactions of benzophenone UV filters with human serum albumin revealed by spectroscopic techniques and molecular modeling | Zhang F., Zhang J., Tong C., Chen Y., Zhuang S., Liu W. | 2013 | Journal of Hazardous Materials | Benzophenones; Fluorescence lifetime; Human serum albumin; Molecular docking spectroscopy; UV filters |
| 190 | More than filler: Middle actors and socio-technical change in the energy system from the "middle-out" | Parag Y., Janda K.B. | 2014 | Energy Research and Social Science | Agency and capacity; Energy system transition; Middle actors; Middle-out |
| 191 | Multimaterial 4D Printing with Tailorable Shape Memory Polymers | Ge Q., Sakhaei A.H., Lee H., Dunn C.K., Fang N.X., Dunn M.L. | 2016 | Scientific Reports |  |
| 192 | Municipal Governance and Sustainability: The Role of Local Governments in Promoting Transitions | Smedby N., Quitzau M. | 2016 | Environmental Policy and Governance | local government; low energy buildings; transition; translation |
| 193 | Municipal planning of a sustainable neighbourhood: Action research and stakeholder dialogue | Gansmo H.J. | 2012 | Building Research and Information | action research; community engagement; energy; integrated design; interdisciplinarity; low-carbon society; neighbourhood design; planning; sustainable settlements |
| 194 | Natural gas as a marine fuel | Thomson H., Corbett J.J., Winebrake J.J. | 2015 | Energy Policy | Environmental policy; Greenhouse gases; Life-cycle analysis; Marine transportation; Natural gas |
| 195 | Navigating the transition to sustainable bioenergy in Sweden and Brazil: Lessons learned in a European and International context | Silveira S., Johnson F.X. | 2016 | Energy Research and Social Science | Brazil; Energy transitions; Sustainable bioenergy; Sweden |
| 196 | Networked urban climate governance: Neighborhood-scale residential solar energy systems and the example of Solarize Portland | Aylett A. | 2013 | Environment and Planning C: Government and Policy | Climate change; Energy; Governance; Market transformation; Public participation; Urban sustainability |
| 197 | Nucleation and growth mechanisms of hcp domains in compressed iron | Pang W.-W., Zhang P., Zhang G.-C., Xu A.-G., Zhao X.-G. | 2014 | Scientific Reports |  |
| 198 | Occupy's predicament: The moment and the prospects for the movement | Gitlin T. | 2013 | British Journal of Sociology | Anarchism; Assembly; Barack Obama; Occupy; Plutocracy; Social movement |
| 199 | On granular elasticity | Sun Q., Jin F., Wang G., Song S., Zhang G. | 2015 | Scientific Reports |  |
| 200 | On the behavior of parametrically excited purely nonlinear oscillators | Zukovic M., Kovacic I. | 2012 | Nonlinear Dynamics | Elliptic function; Overlap criterion; Parametric excitation; Strong nonlinearity; Subharmonic resonances |
| 201 | One, no one, one hundred thousand energy transitions in Europe: The quest for a cultural approach | Sarrica M., Brondi S., Cottone P., Mazzara B.M. | 2016 | Energy Research and Social Science | Europe; Planes of transition; Situated perspective |
| 202 | Optimization research on the multilayer wall integrated with a PCM layer | Tao F., Wang Y., Meng X. | 2014 | Open Construction and Building Technology Journal | Energy conversation; Heat flow; PCM; Thermophysical properties |
| 203 | Optimum community energy storage system for PV energy time-shift | Parra D., Gillott M., Norman S.A., Walker G.S. | 2015 | Applied Energy | Business; Community energy storage; Lead-acid battery; Lithium-ion battery; Optimization; PV energy time-shift |
| 204 | Output and substitution elasticities of energy and implications for renewable energy expansion in the ECOWAS region | Wesseh P.K., Jr, Lin B. | 2016 | Energy Policy | Economic growth; ECOWAS; Energy security; Mitigation; Nonrenewable energy; Renewable energy |
| 205 | Parametric study of wheel transitions at railway crossings | Wan C., Markine V.L. | 2015 | Vehicle System Dynamics | design of experiments; multi-body dynamics; rail geometry; railway crossings; wheel transition |
| 206 | Participation in Transition(s): Reconceiving Public Engagements in Energy Transitions as Co-Produced, Emergent and Diverse | Chilvers J., Longhurst N. | 2016 | Journal of Environmental Policy & Planning | Sustainability transitions; energy, public participation; relational; co- production; STS |
| 207 | Performance characterization of micromachined inductive suspensions based on 3D wire-bonded microcoils | Lu Z., Poletkin K., Wallrabe U., Badilita V. | 2014 | Micromachines | 3D microcoils; Inductive levitation; Stability; Suspension |
| 208 | Perspectives on civic engagement in national strategies to combat climate change | Mittag J. | 2012 | Democratization | Civil society; Climate change adaptation; Democracy promotion |
| 209 | Perturbation theory of a superconducting 0 2 φ impurity quantum phase transition | Zonda M., Pokorný V., Janiš V., Novotný T. | 2015 | Scientific Reports |  |
| 210 | Phase change material thermal storage for biofuel preheating in micro trigeneration application: A numerical study | Wu D., Chen J., Roskilly A.P. | 2015 | Applied Energy | Biofuel preheating; Phase change material; Straight plant oils; Thermal storage |
| 211 | Photovoltaic diffusion from the bottom-up: Analytical investigation of critical factors | Reinsberger K., Brudermann T., Hatzl S., Fleiß E., Posch A. | 2015 | Applied Energy | Analytic hierarchy process; Bottom-up initiatives; Decision analysis; Grassroots innovations; Photovoltaics; SWOT |
| 212 | Planning sustainable electric-power system with carbon emission abatement through CDM under uncertainty | Zhou Y., Li Y.P., Huang G.H. | 2015 | Applied Energy | Carbon emission abatement; Clean development mechanism; Electric power system; Fuzzy programming; Planning; Uncertainty |
| 213 | Plasmon-photon conversion to near-infrared emission from Yb 3+: (Au/Ag-nanoparticles) in tungsten-tellurite glasses | Rivera V.A.G., Ledemi Y., Pereira-Da-Silva M.A., Messaddeq Y., Marega E., Jr. | 2016 | Scientific Reports |  |
| 214 | Poland's quiet revolution: Of Shale Ga s exploration and its discontents in Pomerania | Materka E. | 2012 | Central European Journal of International and Security Studies | Oil companies; Poland; Rural movements; Shale gas; Transition; Wildcatting |
| 215 | Policy frameworks for energy transition in England: Challenges in a former industrial city | Rocco R. | 2016 | Journal of Settlements and Spatial Planning | Energy transition; Former industrial regions; Fuel poverty; Governance |
| 216 | Power to the people: Local community initiatives and the transition to sustainable energy | Van Der Schoor T., Scholtens B. | 2015 | Renewable and Sustainable Energy Reviews | Citizen groups; Decentralized energy production; Energy initiatives; Energy neutrality; Prosumers; Sustainable energy |
| 217 | Poverty, Place, and Coal Employment across Appalachia and the United States in a New Economic Era | Lobao L., Zhou M., Partridge M., Betz M. | 2016 | Rural Sociology |  |
| 218 | Presenting a framework to analyze local climate policy and action in small and medium-sized cities | Hoppe T., van der Vegt A., Stegmaier P. | 2016 | Sustainability (Switzerland) | Climate change adaptation; Climate change mitigation; Climate governance; Energy transition; Small and medium-sized cities |
| 219 | Promoting Community Renewable Energy in a Corporate Energy World | Strachan P.A., Cowell R., Ellis G., Sherry-Brennan F., Toke D. | 2015 | Sustainable Development | community energy; devolution; energy transition; renewable energy; sustainable development; United Kingdom |
| 220 | Prospects of localism in community energy projects in Nigeria | Ojo G.U. | 2014 | Local Environment | climate change; fuelwood; localism; sustainable; technology |
| 221 | Prosumption and the distribution and supply of electricity | Bellekom S., Arentsen M., van Gorkum K. | 2016 | Energy, Sustainability and Society | Business models; DSO; Electricity production companies; Electricity supply companies; Peer-to-peer; Prosumption; Residential storage |
| 222 | Protests against German electricity grid extension as a new social movement? A journey into the areas of conflict | Neukirch M. | 2016 | Energy, Sustainability and Society | Actor constellations; Energy transition; Grid extension; Social movements; Strategic action fields |
| 223 | Public acceptance of the expansion and modification of high-voltage power lines in the context of the energy transition | Lienert P., Suetterlin B., Siegrist M. | 2015 | Energy Policy | Energy transition; Grid expansion and modification; High-voltage power lines; Public acceptance; Risk perception |
| 224 | Public-private or private-private energy partnerships? Toward good energy governance in regional and local green gas projects | Heldeweg M.A., Sanders M., Harmsen M. | 2015 | Energy, Sustainability and Society | Energy transition and green gas; Public-private partnerships (PPP) |
| 225 | Putting an energy system transformation into practice: The case of the German Energiewende | Schmid E., Knopf B., Pechan A | 2016 | Energy Research & Social Science | Energy transition; Interactive governance; Legitimacy; Regulatory state |
| 226 | Quorum sensing alters the microbial community of electrode-respiring bacteria and hydrogen scavengers toward improving hydrogen yield in microbial electrolysis cells | Cai W., Zhang Z., Ren G., Shen Q., Hou Y., Ma A., Deng Y., Wang A., Liu W. | 2016 | Applied Energy | Electron transfer; Microbial community; Microbial electrolysis cell; Quorum sensing |
| 227 | Readjusting to reality 2: Transition? | Atkinson A., Viloria J. | 2013 | City | Arab Spring; austerity policies; cooperatives; Kropotkin; Lenin; middle class; Occupy Wall Street; revolution; Transition Movement; working class; World Social Forum |
| 228 | Realigning the electric city. Legacies of energy autarky in Berlin and Hong Kong | Moss T., Francesch-Huidobro M. | 2016 | Energy Research and Social Science | Berlin; Energy autarky; Hong Kong; Urban energy transitions |
| 229 | Realising local government visions for developing district heating: Experiences from a learning country | Bush R.E., Bale C.S.E., Taylor P.G. | 2016 | Energy Policy | Cities; District heating; Heat networks; Heat policy; Local government; Strategic energy planning |
| 230 | Reconciling scientific reality with realpolitik: Moving beyond carbon pricing to TEQs - An integrated, economy-wide emissions cap | Chamberlin S., Maxey L., Hurth V. | 2014 | Carbon Management |  |
| 231 | Reflections on the role of energy network companies in the energy transition | Steenhuisen B., de Bruijne M. | 2015 | Energy, Sustainability and Society | Economics; Energy network companies; Energy transition; Engineering; Law; Policy; Politics |
| 232 | Regional challenges in tourist wetland systems: An integrated approach to the Ria Formosa in the Algarve, Portugal | de Noronha Vaz E., Walczynska A., Nijkamp P. | 2013 | Regional Environmental Change | Algarve; Coastal erosion; Land-use change; Markov chains; Urban growth; Wetlands |
| 233 | Renewable electricity and the social economy in Alberta: Prospects for community power | MacArthur J. | 2013 | International Journal of Environmental Sustainability | Canada; Renewable Electricity; Social Economy; Sustainability |
| 234 | Renewable energy leapfrogging in China's urban development? Current status and outlook | Schroeder P.M., Chapman R.B. | 2014 | Sustainable Cities and Society | Environmental leapfrogging; Low-carbon urban development; Renewable energy |
| 235 | Renewable energy sector in Belarus: A review | Raslavičius L. | 2012 | Renewable and Sustainable Energy Reviews | Belarus; Bioenergy sector; Renewable energy sector; Sustainable development; Transition economy |
| 236 | Renewable Energy Technology and Path Creation: A Multi-scalar Approach to Energy Transition in the UK | Essletzbichler J. | 2012 | European Planning Studies |  |
| 237 | Renewable energy technology uptake in Kazakhstan: Policy drivers and barriers in a transitional economy | Karatayev M., Hall S., Kalyuzhnova Y., Clarke M.L. | 2016 | Renewable and Sustainable Energy Reviews | Barriers; Central Asia; Fossil fuel; Kazakhstan; Renewable energy |
| 238 | Renewable energy, subsidies, and the WTO: Where has the 'green' gone? | Bougette P., Charlier C. | 2015 | Energy Economics | Canada-Renewable Energy dispute; Feed-in tariffs; Industrial policy; Local content requirement; Subsidies; Trade policy |
| 239 | Renewable micro-generation of heat and electricity - Review on common and missing socio-technical configurations | Juntunen J.K., Hyysalo S. | 2015 | Renewable and Sustainable Energy Reviews | Business model; Community energy; Decentralized energy production; Micro-generation; Renewable energy; Socio-technical configuration |
| 240 | Responsiveness of residential electricity demand to dynamic tariffs: Experiences from a large field test in the Netherlands | Klaassen E.A.M., Kobus C.B.A., Frunt J., Slootweg J.G. | 2016 | Applied Energy | Data-driven analysis; Demand response; Dynamic tariffs; Field test; Price responsiveness; Smart appliances |
| 241 | Review of potential characterization techniques in approaching energy and sustainability | LePoire D.J. | 2014 | Sustainability (Switzerland) | Energy efficiency; Environmental impacts; Foresight techniques; Integrated economic indices; Research and development |
| 242 | Review of solar PV policies, interventions and diffusion in East Africa | Hansen U.E., Pedersen M.B., Nygaard I. | 2015 | Renewable and Sustainable Energy Reviews | Kenya; Market segments; Policies; Solar photovoltaic; Tanzania; Uganda |
| 243 | Review on research achievements of biogas from anaerobic digestion | Mao C., Feng Y., Wang X., Ren G. | 2015 | Renewable and Sustainable Energy Reviews | Accelerants; Biogas; Factorsaffectingefficiency; Processes; Reactors |
| 244 | 'Ribeirinhos: A sustainability sssessment of housing typologies in the Amazon region' | De Paula A.K.M., Tenorio R. | 2010 | World Academy of Science, Engineering and Technology | Amazon region; Building practices; Climatic conditions; CO2 emissions; Embodied energy; Environmental disruption; Environmentally-friendly; High costs; High energy; High quality; Housing typology; Infra-structure; Non-local resources; Quality of life; Research studies |
| 245 | Roles of local and national energy systems in the integration of renewable energy | Thellufsen J.Z., Lund H. | 2016 | Applied Energy | Energy system analysis; EnergyPLAN; Local energy systems; National energy system; Renewable energy; Renewable energy integration |
| 246 | Rural household fuel energy transition: Evidence from Giwa LGA Kaduna State, Nigeria | Baiyegunhi L.J.S., Hassan M.B. | 2014 | Energy for Sustainable Development | Fuel energy; Fuel stacking; Fuel transition; Multinomial logit analysis; Nigeria; Rural households |
| 247 | Scaling up local energy infrastructure; An agent-based model of the emergence of district heating networks | Busch J., Roelich K., Bale C.S.E., Knoeri C. | 2017 | Energy Policy | Agent-based modelling; Business models; Heat networks; Infrastructure; Local energy; Local government |
| 248 | Sector-based political analysis of energy transition: Green shift in the forest policy regime in France | Sergent A. | 2014 | Energy Policy | Energy transition; Forest policy regime; Sector |
| 249 | Sensing spatiotemporal patterns in urban areas: Analytics and visualizations using the integrated multimedia city data platform | Thakuriah P., Sila-Nowicka K., Paule J.G. | 2016 | Built Environment |  |
| 250 | Shale gas policy in the United Kingdom: An argumentative discourse analysis | Cotton M., Rattle I., Van Alstine J. | 2014 | Energy Policy | Discourse coalitions; Interpretive policy analysis; Shale gas |
| 251 | Shale gas vs. coal: Policy implications from environmental impact comparisons of shale gas, conventional gas, and coal on air, water, and land in the United States | Jenner S., Lamadrid A.J. | 2013 | Energy Policy | Environmental protection; Lifecycle analysis; Unconventional gas |
| 252 | Simple model of complex bursting dynamics in developing networks of neuronal cultures | Iudin D.I., Tyukin I.Y., Gorban A.N., Iudin F.D., Kazantsev V.B., Muhina I.V., Tyukina T.T. | 2016 | IFAC-PapersOnLine |  |
| 253 | Situative governance and energy transitions in a spatial context: case studies from Germany | Fuchs G., Hinderer N. | 2014 | Energy, Sustainability and Society | Electricity supply; Germany; Local initiatives; Sustainable energy transitions |
| 254 | Small Island Developing States (SIDS) & energy aid: Impacts on the energy sector in the caribbean and pacific | Niles K., Lloyd B. | 2013 | Energy for Sustainable Development | Aid; Caribbean; Dependence; Energy; Islands; Pacific |
| 255 | Small town identity and history's contribution to a response in policy change: a case study of transition from coal to biomass energy conversion | Dampier J.E.E., Lemelin R.H., Shahi C., Luckai N. | 2014 | Energy, Sustainability and Society | Atikokan Generating Station; Bioenergy; Lignite coal; Social impacts; Wood pellets |
| 256 | Smart Energy Europe: The technical and economic impact of one potential 100% renewable energy scenario for the European Union | Connolly D., Lund H., Mathiesen B.V. | 2016 | Renewable and Sustainable Energy Reviews | 100% renewable energy; EnergyPLAN; Europe; Jobs |
| 257 | Smart grid and smart building inter-operation using agent-based particle swarm optimization | Hurtado L.A., Nguyen P.H., Kling W.L. | 2015 | Sustainable Energy, Grids and Networks | Building automation; Comfort management; Demand side management; Energy management; Multi-agent systems; Particle swarm optimization |
| 258 | Smart renewable generation for an islanded system. Technical and economic issues of future scenarios | Cosentino V., Favuzza S., Graditi G., Ippolito M.G., Massaro F., Riva Sanseverino E., Zizzo G. | 2012 | Energy | Distributed generation; Distribution systems; Energy scenarios; Renewable energy; Smart grids |
| 259 | Social impacts of community renewable energy projects: Findings from a woodfuel case study | Rogers J.C., Simmons E.A., Convery I., Weatherall A. | 2012 | Energy Policy | Community renewable energy; Impacts; Woodfuel |
| 260 | Social planning for Energy Transitions | Miller C.A., Richter J. | 2014 | Current Sustainable and Renewable Energy Reports | Sociotechnological systems; Socio-energy systems; Policy ; Justice; Future; Community; Society; Scenario planning; Management; Governance; Redistribution; Organization; Imagination; Power; Public; Deliberation; Society |
| 261 | Socio-economic support optimization for transition from conventional to organic farming using a spatiotemporal agent-based model | Ghaffari A., Bunch M.J., MacRae R.J., Zhao S.J. | 2015 | International Journal of Interdisciplinary Environmental Studies | Agent based model; GIS; Organic farming; Transition |
| 262 | Socio-economic trends and climate change adaptation: The case of South East Queensland | Roiko A., Mangoyana R.B., McFallan S., Carter R.W., Oliver J., Smith T.F. | 2012 | Australasian Journal of Environmental Management | Adaptive capacity; Community; Context-specific data; Demography; Population projections |
| 263 | Socio-technical evolution of Decentralized Energy Systems: A critical review and implications for urban planning and policy | Adil A.M., Ko Y. | 2016 | Renewable and Sustainable Energy Reviews | Decentralized Energy Systems; Renewable energy; Smart Grids; Sociotechnical theory; Urban energy planning; Urban energy systems |
| 264 | Solar power, state power, and the politics of energy transition in pre-Saharan Morocco | Rignall K.E. | 2016 | Environment and Planning A | energy transition; green grabbing; land tenure; Middle East and North Africa; Morocco; renewable energy; Solar power; state |
| 265 | Solar PV and solar water heaters in China: Different pathways to low carbon energy | Urban F., Geall S., Wang Y. | 2016 | Renewable and Sustainable Energy Reviews | China; Low carbon innovation; PV; Solar energy; Solar water heaters |
| 266 | Source separation sewage systems as a trend in urban wastewater management: Drivers for the implementation of pilot areas in Northern Europe | Skambraks A.-K., Kjerstadius H., Meier M., Davidsson Å., Wuttke M., Giese T. | 2017 | Sustainable Cities and Society | Blackwater; Drivers; Food waste; Source separation; Wastewater management |
| 267 | Spatial justice and the land politics of renewables: Dispossessing vulnerable communities through solar energy mega-projects | Yenneti K., Day R., Golubchikov O. | 2016 | Geoforum | Enclosure of commons; Energy justice; Energy transition; India, Charanka solar park; Land acquisition; Mega-solar-projects |
| 268 | Spatially uneven development and low carbon transitions: Insights from urban and regional planning | Balta-Ozkan N., Watson ., Mocca E. | 2015 | Energy Policy | Low carbon transition; Regional energy transition; Regional science; Smart grid |
| 269 | Spotlight on solar farms | Jones P., Comfort D., Hillier D. | 2015 | Journal of Public Affairs |  |
| 270 | Stakeholder involvement in sustainability science - A critical view | Mielke J., Vermaßen H., Ellenbeck S., Fernandez Milan B., Jaeger C. | 2016 | Energy Research and Social Science | Energy transition; Stakeholder involvement typology; Sustainability science; Transformative research |
| 271 | Stakeholder participation in municipal energy and climate planning – experiences from Sweden | Fenton P., Gustafsson S., Ivner J., Palm J. | 2014 | Local Environment | energy and climate strategies; municipalities; participation; stakeholders |
| 272 | STO/BTO Modulated Superlattice Multilayer Structures with Atomically Sharp Interfaces | Petrov P.K., Zou B., Wang Y., Perkins J.M., McComb D.W., Alford N.M. | 2014 | Advanced Materials Interfaces | ferroelectrics; interfaces; modulated superlattices; nanostructures; thin films |
| 273 | Stress-induced glass transitions | Patashinski A. | 2014 | International Journal of Engineering Science | Activation energy; Glass transition; Stress and strain |
| 274 | Structural phase transitions and photoluminescence properties of oxonitridosilicate phosphors under high hydrostatic pressure | Lazarowska A., Mahlik S., Grinberg M., Li G., Liu R.-S. | 2016 | Scientific Reports |  |
| 275 | Struggle over energy transition in Berlin: How do grassroots initiatives affect local energy policy-making? | Blanchet T. | 2015 | Energy Policy | Electricity distribution; Energy transition; Grassroots initiatives |
| 276 | Studies on ductile - Brittle transition for carbon dioxide pipelines | Zichil V., Coseru A., Dobreci L., Cotirlet A., Schnakovszky C. | 2014 | Environmental Engineering and Management Journal | CO2 pipeline; Crack; Critical energy; Critical stress intensity factor; Dynamic tenacity |
| 277 | Successful development of decentralised district heating: Application of a theoretical framework | Hooimeijer F.L., Puts H., Geerdink T. | 2016 | Journal of Settlements and Spatial Planning | Decentralized energy; District heating; Energy planning; Organic urban development; Spatial arrangements |
| 278 | Supercooled water escaping from metastability | Aliotta F., Giaquinta P.V., Ponterio R.C., Prestipino S., Saija F., Salvato G., Vasi C. | 2014 | Scientific Reports |  |
| 279 | Supporting energy initiatives in small communities by linking visions with energy scenarios and multi-criteria assessment | Trutnevyte E., Stauffacher M., Scholz R.W. | 2011 | Energy Policy | Visions; Community energy; Energy scenarios |
| 280 | Supporting sustainability through smart infrastructures: The case for the city of Amsterdam | Baron G., Brinkman J., Wenzler I. | 2012 | International Journal of Critical Infrastructures | Ecosystem; Fibre to the home; Grid; Growth; Living lab; Services products; Smart infrastructures; SME's; User centric |
| 281 | Sustainability transitions: A political coalition perspective | Hess D.J. | 2014 | Research Policy | Transitions; Technology; Sustainability; Political coalitions; Countervailing power |
| 282 | Sustainable biomass energy and indigenous cultural models of wellbeing in an Alaska forest ecosystem | Sikka M., Thornton T.F., Worl R. | 2013 | Ecology and Society | Forest ecosystems; Indigenous communities; Native corporations; Policy recommendations; Sustainable development; Triple bottom line analysis; Wood-biomass energy |
| 283 | Tackling biomass scarcity-from vicious to virtuous cycles in sub-Saharan Africa | Karlberg L., Hoff H., Flores-López F., Goetz A., Matuschke I. | 2015 | Current Opinion in Environmental Sustainability |  |
| 284 | Taking to the market: The expanding leverage of local governments to drive sustainable transitions in the private sector | Chiavara J. | 2012 | Environmental Claims Journal |  |
| 285 | Technology complexity, technology transfer mechanisms and sustainable development | Blohmke J. | 2014 | Energy for Sustainable Development | Renewable energy; Sustainable development; Technological capabilities; Technology mechanism; Technology transfer |
| 286 | The alternative strategies of the development of the nuclear power industry in the 21st century | Goverdovskii A.A., Kalyakin S.G., Rachkov V.I. | 2014 | Thermal Engineering (English translation of Teploenergetika) | alternative energy carriers; breeding ratio (BR); capacity factor; closed nuclear fuel cycle; development strategy; non-proliferation of nuclear weapons; nuclear energy; renewable energy sources (RESs); reprocessing of spent nuclear fuel; safety of the nuclear power industry |
| 287 | The benefits and complexities of distributed generation: Two energy trajectories in Laos and Thailand | Smits M. | 2012 | Forum for Development Studies | Decentralised electricity generation; Distributed generation; Energy practices; Energy trajectory; Energy transition; Laos; Thailand |
| 288 | The bumpy road toward low-energy urban mobility: Case studies from two UK cities | Schwanen T. | 2015 | Sustainability (Switzerland) | Carbon; Cities; Energy consumption; Innovation; Low-energy transport; Sociotechnical transition; United Kingdom |
| 289 | The concept of an interactive platform for real time energy consumption analysis in a complex urban environment | Podgornik A., Sucic B., Urosevic L. | 2015 | Journal of Sustainable Development of Energy, Water and Environment Systems | Consumption feedback; Energy behaviour; Energy efficiency; Energy utility; Smart metering; Sustainable development |
| 290 | The Contested Energy Future of Amman, Jordan: Between Promises of Alternative Energies and a Nuclear Venture | Verdeil É. | 2014 | Urban Studies | energy governance; energy transition; Middle East; renewable energy; urban politics |
| 291 | The contribution of energy-optimized urban planning to efficient resource use-a case study on residential settlement development in Dhaka City, Bangladesh | Sikder S.K., Eanes F., Asmelash H.B., Kar S., Koetter T. | 2016 | Sustainability (Switzerland) | Energy optimization model; Energy planning; Energy technology; Urban energy; Urban planning; Urban system |
| 292 | The education level of the human resources in the context of the green economy | Anghelutǎ P.S. | 2016 | Progress in Industrial Ecology | Economic growth; Education and training; Green economy; Human resources; Romania |
| 293 | The establishment of citizen power plants in Austria: A process of empowerment? | Schreuer A. | 2016 | Energy Research and Social Science | Citizen power plants; Community energy; Empowerment Sociotechnical configurations; Grassroots innovations |
| 294 | The impacts of spatial planning on degrowth | Wächter P. | 2013 | Sustainability (Switzerland) | Degrowth; Settlement structures; Spatial planning |
| 295 | The influence of an improved firewood cookstove, Chitetzo mbaula, on tree species preference in Malawi | Timko J.A., Kozak R.A. | 2016 | Energy for Sustainable Development | Africa; Firewood preference; Improved firewood cookstoves |
| 296 | The lessons learned from shifting from global-change research programmes to transdisciplinary sustainability science | Leemans R. | 2016 | Current Opinion in Environmental Sustainability |  |
| 297 | The Local Sources of Market Formation: Explaining Regional Growth Differentials in German Photovoltaic Markets | Dewald U., Truffer B. | 2012 | European Planning Studies |  |
| 298 | The Need for Local Thermal Energy Planning | Schubert S. | 2014 | Journal of Urban Technology | Energy; space heat; spatial energy planning; Switzerland; thermal energy planning |
| 299 | The need for policy coherence to trigger a transition to biogas production | Huttunen S., Kivimaa P., Virkamäki V. | 2014 | Environmental Innovation and Societal Transitions | Bioenergy; Finland; Policy coherence; Technological innovation system |
| 300 | The Nordic welfare model providing energy transition? A political geography approach to the EU RES directive | Westholm E., Beland Lindahl K. | 2012 | Energy Policy | EU; Renewable energy; Welfare model |
| 301 | The occurrence of individual slow waves in sleep is predicted by heart rate | Mensen A., Zhang Z., Qi M., Khatami R. | 2016 | Scientific Reports |  |
| 302 | The photovoltaic heat island effect: Larger solar power plants increase local temperatures | Barron-Gafford G.A., Minor R.L., Allen N.A., Cronin A.D., Brooks A.E., Pavao-Zuckerman M.A. | 2016 | Scientific Reports |  |
| 303 | The political ecology of hydropower: Social justice and conflict in Colombian hydroelectricity development | Martínez V., Castillo O.L. | 2016 | Energy Research and Social Science | Eco-distributive conflicts; Risk of hydropower projects implementation; Socio-energy systems |
| 304 | The production of scientific knowledge on renewable energies: Worldwide trends, dynamics and challenges and implications for management | Rizzi F., van Eck N.J., Frey M. | 2014 | Renewable Energy | Renewable energy; Research strategy; Resource management; Scientific knowledge; Sustainable development |
| 305 | The role of the state in sustainable energy transitions: A case study of large smart grid demonstration projects in Japan | Mah D.N.Y., Wu Y.-Y., Ip J.C.M., Hills P.R. | 2013 | Energy Policy | Japan; Smart grids; State |
| 306 | The Solution that Might Have Been: Resolving Social Conflict in Deliberations about Future Electricity Grid Development | Tobiasson W., Jamasb T. | 2016 | Energy Research and Social Science | Compensation and benefit sharing; Electricity transmission; Public and local opposition; Social sustainability |
| 307 | The sustainable city: An analytical-deliberative approach to assess policy in the context of sustainable urban development | Dassen T., Kunseler E., van Kessenich L.M. | 2013 | Sustainable Development | Energy; Health; Liveability; Participatory backcasting; Sustainability assessment methodology; Sustainable city; Transition governance; Urban living environment |
| 308 | The Vicissitudes of Energy and Climate Policy in Stockholm: Politics, Materiality and Transition | Rutherford J. | 2014 | Urban Studies | district heating; energy and climate policy; Stockholm; Sweden; urban materiality; urban politics |
| 309 | The world at a crossroads: Financial scenarios for sustainability | Carnicer J., Peñuelas J. | 2012 | Energy Policy | Financial system; Renewable energy; Sustainability |
| 310 | Toward a gender diverse workforce in the renewable energy transition | Pearl-Martinez R., Stephens J.C. | 2016 | Sustainability: Science, Practice, and Policy | Energy; Fossil fuels; Gender; Renewables; Sustainability; Transitions; Women |
| 311 | Toward a systematized framework for resource efficiency indicators | Huysman S., Sala S., Mancini L., Ardente F., Alvarenga R.A.F., De Meester S., Mathieux F., Dewulf J. | 2015 | Resources, Conservation and Recycling | Eco-efficiency; Indicators; LCA; Resource efficiency; Waste indicators |
| 312 | Toward renewable energy geo-information infrastructures: Applications of GIScience and remote sensing that build institutional capacity | Calvert K., Pearce J.M., Mabee W.E. | 2013 | Renewable and Sustainable Energy Reviews | Constraint analysis; Geo-information; GIS; Methodological scale; Renewable energy |
| 313 | Towards a low carbon future: a phenomenology of local electricity experiments in Germany | Fuchs G., Hinderer N. | 2014 | Journal of Cleaner Production | Low carbon transition; Local electricity experiments; Incumbent-challenger interactions; Germany Strategic action fields; Interactions; Germany |
| 314 | Towards a sustainable socio-technical system of biogas for transport: the case of the city of Linkoping in Sweden | Fallde M., Eklund M. | 2015 | Journal of Cleaner Production | Socio-technical system; Biogas; System builder; Socio-technical transitions; Multi-level perspectives; Industrial ecology |
| 315 | Towards an integrated energy landscape | De Boer J., Zuidema C. | 2015 | Proceedings of the Institution of Civil Engineers: Urban Design and Planning | Local government; Public policy; Renewable energy; Sustainability |
| 316 | Towards In-Flight Applications? A Review on Dielectric Barrier Discharge-Based Boundary-Layer Control | Kriegseis J., Simon B., Grundmann S. | 2016 | Applied Mechanics Reviews | active flow control (AFC); body force; boundary-layer control (BLC); laminar-turbulent transition; performance quantification; Plasma actuator (PA) |
| 317 | Towards smart grids: Identifying the risks that arise from the integration of energy and transport supply chains | Eising J.W., van Onna T., Alkemade F. | 2014 | Applied Energy | Distribution networks; Electric vehicles; Energy management; Energy security; Energy transition; Smart grids |
| 318 | Transition from freshwater to seawater reshapes the skin-associated microbiota of Atlantic salmon | Lokesh J., Kiron V. | 2016 | Scientific Reports |  |
| 319 | Transition to a low-carbon city: Lessons learned from Suzhou in China | Liu W., Wang C., Xie X., Mol A.P.J., Chen J. | 2012 | Frontiers of Environmental Science and Engineering in China | economic restructuring; low-carbon city; technology upgrading |
| 320 | Transnational linkages in sustainability experiments: A typology and the case of solar photovoltaic energy in India | Wieczorek A.J., Raven R., Berkhout F. | 2015 | Environmental Innovation and Societal Transitions | Developing Asia; Geography of sustainability transitions; Solar PV; Sustainability experiments; Transnational linkages |
| 321 | Triggering transformative change: a development path approach to climate change response in communities | Burch S., Shaw A., Dale A., Robinson J. | 2014 | Climate Policy | adaptive management; climate change policies; community planning; development pathways; governance |
| 322 | True green and sustainable university campuses? Toward a clusters approach | Sonetti G., Lombardi P., Chelleri L. | 2016 | Sustainability (Switzerland) | Energy indicators; Sustainability assessment frameworks; University campus |
| 323 | Trust and cooperation among urban poor for transition to cleaner and modern cooking fuel | Nayak B.P., Werthmann C., Aggarwal V. | 2015 | Environmental Innovation and Societal Transitions | Collective action; Cooking fuel; Energy access; India; Urban poor |
| 324 | Two conformational states in D-shaped DNA: Effects of local denaturation | Lee O.-C., Kim C., Kim J.-Y., Lee N.K., Sung W. | 2016 | Scientific Reports |  |
| 325 | Ultrafast lithium migration in surface modified LiFePO4 by heterogeneous doping | Adams S. | 2012 | Applied Energy | Heterogeneous doping; Lithium ion batteries; Mesoscopic multiphase effect; Nanostructured energy storage materials |
| 326 | Uncertainty, vision, and the vitality of the emerging smart grid | Tricoire A. | 2015 | Energy Research and Social Science | Smart grid; Social network analysis; Socio-technical system transition; Strategic positioning; Uncertainty |
| 327 | Understanding the social dynamics of energy regions-the importance of discourse analysis | Späth P. | 2012 | Sustainability | Analytical framework; Discourse analysis; Discourse coalitions; Energy autarky; Energy regions; Geography of energy transitions |
| 328 | Unitary power control strategy for low-power wind energy conversion system using active speed stall control for full-load regime | Burlibasa A., Munteanu I., Bratcu A.I. | 2014 | IET Renewable Power Generation |  |
| 329 | Universality of first and second order phase transition in solar activity. Evidence for nonextensive tsallis statistics | Karakatsanis L.P., Pavlos G.P., Sfiris D.S. | 2012 | International Journal of Bifurcation and Chaos | Chaos; Complexity; Nonlinear analysis; SOC; Solar flares; Sunspot index; Tsallis statistics |
| 330 | Unraveling metal-insulator transition mechanism of VO2 triggered by tungsten doping | Tan X., Yao T., Long R., Sun Z., Feng Y., Cheng H., Yuan X., Zhang W., Liu Q., Wu C., Xie Y., Wei S. | 2012 | Scientific Reports |  |
| 331 | Unsupervised energy prediction in a Smart Grid context using reinforcement cross-building transfer learning | Mocanu E., Nguyen P.H., Kling W.L., Gibescu M. | 2016 | Energy and Buildings | Building energy prediction; Deep Belief Networks; Machine learning; Reinforcement learning; Transfer learning |
| 332 | Urban carbon governance and the transition toward low-carbon urbanism: Review of a global phenomenon | Lo K. | 2014 | Carbon Management | Climate change; Energy; Urban carbon governance |
| 333 | Urban energy challenges in sub-Saharan Africa | Tanko A.I. | 2016 | Current Opinion in Environmental Sustainability |  |
| 334 | Urban social reconstruction after oil | Atkinson A. | 2012 | International Journal of Urban Sustainable Development | alternatives; empire; fossil fuel; intentional community; local economic development (LED); megacities; neo-liberalism; transition towns; urban and peri-urban agriculture (UPA); World Social Forum |
| 335 | Using power sector reform as an opportunity to increase the uptake of renewable energy in the power sector: Responding to peak oil and climate change in Caribbean and Pacific small island developing States, between 1970-2010 | Niles K., Lloyd B. | 2014 | Natural Resources Forum | Electricity; Fossil fuels; Island; Peak oil; Renewable; SIDS |
| 336 | Validity of a food frequency questionnaire to assess nutritional intake among Sri Lankan adults | Jayawardena R., Byrne N.M., Soares M.J., Katulanda P., Hills A.P. | 2016 | SpringerPlus | Adults; Diet; FFQ; Nutrition; Sri Lanka; Validation |
| 337 | What are retail investors' risk-return preferences towards renewable energy projects? A choice experiment in Germany | Salm S., Hille S.L., Wüstenhagen R. | 2016 | Energy Policy | Choice experiment; Community finance; Energy cooperative; Investment decision; Retail investor; Social acceptance |
| 338 | What characterizes a system builder? The role of local energy companies in energy system transformation | Palm J., Fallde M. | 2016 | Sustainability (Switzerland) | Energy company; Energy system; Municipality; Policy processes; System builder |
| 339 | What drives the development of community energy in Europe? the case of wind power cooperatives | Bauwens T., Gotchev B., Holstenkamp L. | 2016 | Energy Research and Social Science | Community energy; Cooperative; Social-Ecological System; Wind power |
| 340 | When a local Hamiltonian must be frustration-free | Sattath O., Morampudi S.C., Laumann C.R., Moessner R. | 2016 | Proceedings of the National Academy of Sciences of the United States of America | Critical exponents; Hardcore lattice gas; Local Hamiltonian; Quantum satisfiability; Universality |
| 341 | Whose energy transition is it, anyway? Organisation and ownership of the Energiewende in villages, cities and regions | Moss T., Becker S., Naumann M. | 2015 | Local Environment | Berlin–Brandenburg; Commons; Germany; Local energy transitions; Organisation; Ownership |
| 342 | Why we need high-tech politics to make renewables a success story | Goldammer K., Mans U. | 2013 | Green | High-tech; Innovation; Renewable energy |
| 343 | Voltage and Frequency Grid Support Strategies beyond Standards | Serban E., Ordonez M., Pondiche C. | 2017 | IEEE Transactions on Power Electronics | Active and reactive power grid support; electrical energy storage converter power system; frequency assist and voltage assist; grid loading; grid power balancing; grid support |
| 344 | XFEM modeling and homogenization of magnetoactive composites | Spieler C., Kästner M., Goldmann J., Brummund J., Ulbricht V. | 2013 | Acta Mechanica |  |

\*The selected papers are given in red text colour

*Table A2. List of papers selected, as the core papers*

|  | Title | Authors | Year | Source title |
| --- | --- | --- | --- | --- |
| 1 | A grassroots sustainable energy niche? Reflections on community energy in the UK | Seyfang G., Hielscher S., Hargreaves T., Martiskainen M., Smith A. | 2014 | Environmental Innovation and Societal Transitions |
| 2 | Challenging obduracy: How local communities transform the energy system | Van Der Schoor T., Van Lente H., Scholtens, B., Peine A. | 2016 | Energy Research and Social Science |
| 3 | Decentralisation dynamics in energy systems: A generic simulation of network effects | Kubli M., Ulli-Beer S. | 2016 | Energy Research and Social Science |
| 4 | Decentralised laboratories in the German energy transition. Why local renewable energy initiatives must reinvent themselves | Beermann J., Tews K. | 2016 | Journal of Cleaner Production |
| 5 | Dynamics of energy transitions under changing socioeconomic, technological and climate conditions in Northwest Germany | Ruth M., Özgün O., Wachsmuth J., Gößling-Reisemann S. | 2015 | Ecological Economics |
| 6 | Energetic communities for community energy: A review of key issues and trends shaping integrated community energy systems | Koirala B.P., Koliou E., Friege J., Hakvoort R.A., Herder P.M. | 2016 | Renewable and Sustainable Energy Reviews |
| 7 | Energy transitions in small-scale regions – What we can learn from a regional innovation systems perspective | Mattes J., Huber A., Koehrsen J. | 2015 | Energy Policy |
| 8 | Harvesting energy: Place and local entrepreneurship in community-based renewable energy transition | Süsser D., Döring M., Ratter B.M.W. | 2016 | Energy Policy |
| 9 | Local authorities as niche actors: the case of energy governance in the UK | Fudge S., Peters M., Woodman B. | 2016 | Environmental Innovation and Societal Transitions |
| 10 | Local energy policy and managing low carbon transition: The case of Leicester, UK | Lemon M., Pollitt M.G., Steer S. | 2015 | Energy Strategy Reviews |
| 11 | Local Governments Supporting Local Energy Initiatives: Lessons from the Best Practices of Saerbeck (Germany) and Lochem (The Netherlands) | Hoppe T., Graf A., Warbroek B., Lammers I., Lepping I. | 2015 | Sustainability |
| 12 | Local niche experimentation in energy transitions: A theoretical and empirical exploration of proximity advantages and disadvantages | Coenen L., Raven R., Verbong G. | 2010 | Technology in Society |
| 13 | One, no one, one hundred thousand energy transitions in Europe: The quest for a cultural approach | Sarrica M., Brondia S., Cottone P., Mazzara B.M. | 2016 | Energy Research and Social Science |
| 14 | Photovoltaic diffusion from the bottom-up: Analytical investigation of critical factors | Reinsberger K., Brudermann T., Hatzl S., Fleiß E., Posch A. | 2015 | Applied Energy |
| 15 | Scaling up local energy infrastructure; An agent-based model of the emergence of district heating networks | Busch J., Roelich K., Bale C.S.E., Knoeri C. | 2017 | Energy Policy |
| 16 | Supporting energy initiatives in small communities by linking visions with energy scenarios and multi-criteria assessment | Trutnevyte E., Stauffacher M., Scholz R.W. | 2011 | Energy Policy |
| 17 | The establishment of citizen power plants in Austria: A process of empowerment? | Schreuer A. | 2016 | Energy Research and Social Science |
| 18 | Towards a sustainable socio-technical system of biogas for transport: the case of the city of Linkoping in Sweden | Fallde M., Eklund M. | 2015 | Journal of Cleaner Production |

*Table A3. List of papers selected, as the peripheral papers*

|  | Title | Authors | Year | Source title |
| --- | --- | --- | --- | --- |
| 1 | A practice approach to study the spatial dimensions of the energy transition | Faller F. | 2015 | Environmental Innovation and Societal Transitions |
| 2 | Decentralised combined heat and power in the German Ruhr Valley; assessment of factors blocking uptake and integration | Viétor B., Hoppe T., Clancy J. | 2015 | Energy, Sustainability and Society |
| 3 | Does civil society matter? Challenges and strategies of grassroots initiatives in Italy’s energy transition | Magnania N., Osti G. | 2016 | Energy Research and Social Science |
| 4 | Exploring the transition potential of renewable energy communities | Do´ ci G., Vasileiadou E., Petersen A.C. | 2015 | Futures |
| 5 | Grassroots innovations in community energy: The role of intermediaries in niche development | Hargreaves T., Hielscher S., Seyfang G., Smith A. | 2013 | Global Environmental Change |
| 6 | Growing grassroots innovations: exploring the role of community-based initiatives in governing sustainable energy transitions | Seyfang G., Haxeltine A. | 2012 | Environment and Planning C: Government and Policy |
| 7 | Local power: exploring the motivations of mayors and key success factors for local municipalities to go 100% renewable energy | Busch H., McCormick K. | 2014 | Energy, Sustainability and Society |
| 8 | Local renewable energy cooperatives: revolution in disguise? | Hufen J.A.M., Koppenjan J.F.M. | 2015 | Energy, Sustainability and Society |
| 9 | Participation in Transition(s): Reconceiving Public Engagements in Energy Transitions as Co-Produced, Emergent and Diverse | Chilvers J., Longhurst N. | 2016 | Journal of Environmental Policy & Planning |
| 10 | Putting an energy system transformation into practice: The case of the German Energiewende | Schmid E., Knopf B., Pechan A | 2016 | Energy Research & Social Science |
| 11 | Situative governance and energy transitions in a spatial context: case studies from Germany | Fuchs G., Hinderer N. | 2014 | Energy, Sustainability and Society |
| 12 | Social planning for Energy Transitions | Miller C.A., Richter J. | 2014 | Current Sustainable and Renewable Energy Reports |
| 13 | Stakeholder participation in municipal energy and climate planning – experiences from Sweden | Fenton P., Gustafsson S., Ivner J., Palm J. | 2014 | Local Environment |
| 14 | Sustainability transitions: A political coalition perspective | Hess D.J. | 2014 | Research Policy |
| 15 | Towards a low carbon future: a phenomenology of local electricity experiments in Germany | Fuchs G., Hinderer N. | 2014 | Journal of Cleaner Production |
| 16 | Triggering transformative change: a development path approach to climate change response in communities | Burch S., Shaw A., Dale A., Robinson J. | 2014 | Climate Policy |
| 17 | What drives the development of community energy in Europe? The case of wind power cooperatives | Bauwens T., Gotchev B., Holstenkamp L. | 2016 | Energy Research and Social Science |
| 18 | Whose energy transition is it, anyway? Organisation and ownership of the Energiewende in villages, cities and regions | Moss T., Becker S., Naumann M. | 2015 | Local Environment |