

# Toshihiko Nakata

## List of Publications by Year in descending order

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116  
papers

2,068  
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304743

22  
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254184

43  
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116  
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docs citations

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times ranked

2130  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Assessment of access to electricity and the socio-economic impacts in rural areas of developing countries. <i>Energy Policy</i> , 2008, 36, 2016-2029.  | 8.8  | 352       |
| 2  | Application of energy system models for designing a low-carbon society. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 462-502.   | 31.2 | 157       |
| 3  | Energy-economic models and the environment. <i>Progress in Energy and Combustion Science</i> , 2004, 30, 417-475.   | 31.2 | 155       |
| 4  | Analysis of the energy access improvement and its socio-economic impacts in rural areas of developing countries. <i>Ecological Economics</i> , 2007, 62, 319-329.   | 5.7  | 146       |
| 5  | Energy use and CO2 emissions reduction potential in passenger car fleet using zero emission vehicles and lightweight materials. <i>Energy</i> , 2012, 48, 548-565.  | 8.8  | 90        |
| 6  | Design of decentralized energy systems for rural electrification in developing countries considering regional disparity. <i>Applied Energy</i> , 2012, 91, 130-145.   | 10.1 | 88        |
| 7  | Analysis of the impacts of carbon taxes on energy systems in Japan. <i>Energy Policy</i> , 2001, 29, 159-166.   | 8.8  | 79        |
| 8  | Design for renewable energy systems with application to rural areas in Japan. <i>Energy Policy</i> , 2005, 33, 209-219.   | 8.8  | 65        |
| 9  | Analysis of the market penetration of clean coal technologies and its impacts in China's electricity sector. <i>Energy Policy</i> , 2009, 37, 338-351.  | 8.8  | 65        |
| 10 | Multi-objective assessment of rural electrification in remote areas with poverty considerations. <i>Energy Policy</i> , 2009, 37, 3096-3108.  | 8.8  | 45        |
| 11 | Application of energy and CO2 reduction assessments for end-of-life vehicles recycling in Japan. <i>Applied Energy</i> , 2019, 237, 779-794.  | 10.1 | 40        |
| 12 | Energy-efficiency strategy for CO2 emissions in a residential sector in Japan. <i>Applied Energy</i> , 2008, 85, 101-114.   | 10.1 | 39        |
| 13 | Economic analysis on small-scale forest biomass gasification considering geographical resources distribution and technical characteristics. <i>Biomass and Bioenergy</i> , 2011, 35, 2883-2892.                                     | 5.7  | 33        |
| 14 | A comparative exergy and exergoeconomic analysis of a residential heat supply system paradigm of Japan and local source based district heating system using SPECO (specific exergy cost) method. <i>Energy</i> , 2014, 74, 537-554. | 8.8  | 30        |
| 15 | Analysis of the impact of electricity grid interconnection between Korea and Japan—Feasibility study for energy network in Northeast Asia. <i>Energy Policy</i> , 2006, 34, 1015-1025.  | 8.8  | 27        |
| 16 | Design of an Optimal Waste Utilization System: A Case Study in St. Petersburg, Russia. <i>Sustainability</i> , 2011, 3, 1486-1509.  | 3.2  | 27        |
| 17 | Modeling technological learning and its application for clean coal technologies in Japan. <i>Applied Energy</i> , 2011, 88, 330-336.  | 10.1 | 26        |
| 18 | A feasibility and performance assessment of a low temperature district heating system — A North Japanese case study. <i>Energy</i> , 2016, 95, 155-174.   | 8.8  | 26        |

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|----|---|------|-----------|
| 19 | Analysis of the impact of vehicle lightweighting on recycling benefits considering life cycle energy reductions. Resources, Conservation and Recycling, 2021, 164, 105118.                    | 10.8 | 26        |
| 20 | Energy Consumption Analysis for Vehicle Production through a Material Flow Approach. Energies, 2020, 13, 2396.  | 3.1  | 25        |
| 21 | Analysis of the impacts of nuclear phase-out on energy systems in Japan. Energy, 2002, 27, 363-377.   | 8.8  | 24        |
| 22 | Analysis of woody biomass utilization for heat, electricity, and CHP in a regional city of Japan. Journal of Cleaner Production, 2021, 290, 125665.   | 9.3  | 24        |
| 23 | Optimum design of district heating: Application of a novel methodology for improved design of community scale integrated energy systems. Energy, 2012, 38, 190-204.                           | 8.8  | 23        |
| 24 | Techno-economic assessment of lightweight and zero emission vehicles deployment in the passenger car fleet of developing countries. Applied Energy, 2014, 123, 129-142.                       | 10.1 | 23        |
| 25 | Analysis of CO2 emissions reduction potential in secondary production and semi-fabrication of non-ferrous metals. Energy Policy, 2013, 52, 328-341.   | 8.8  | 22        |
| 26 | Analysis of the impact of hybrid vehicles on energy systems in Japan. Transportation Research, Part D: Transport and Environment, 2000, 5, 373-383.   | 6.8  | 21        |
| 27 | Energy modeling on cleaner vehicles for reducing CO2 emissions in Japan. Journal of Cleaner Production, 2003, 11, 389-396.  | 9.3  | 20        |
| 28 | Assessment of energy utilization in Iran's industrial sector using energy and exergy analysis method. Applied Thermal Engineering, 2012, 36, 472-481.   | 6.0  | 20        |
| 29 | Rethinking sustainable bioenergy development in Japan: decentralised system supported by local forestry biomass. Sustainability Science, 2020, 15, 1461-1471.                                 | 4.9  | 19        |
| 30 | Cost and CO2 reduction of biomass co-firing using waste wood biomass in Tohoku region, Japan. Journal of Cleaner Production, 2018, 174, 1044-1053.  | 9.3  | 17        |
| 31 | Renewable technologies for rural electrification in Colombia: a multiple objective approach. International Journal of Energy Sector Management, 2008, 2, 139-154.                             | 2.3  | 16        |
| 32 | Quantitative analysis of energy-efficiency strategy on CO2 emissions in the residential sector in Japan – Case study of Iwate prefecture. Applied Energy, 2008, 85, 204-217.                  | 10.1 | 15        |
| 33 | Shift to a low carbon society through energy systems design. Science China Technological Sciences, 2010, 53, 134-143.   | 4.0  | 15        |
| 34 | Recoverability Analysis of Critical Materials from Electric Vehicle Lithium-Ion Batteries through a Dynamic Fleet-Based Approach for Japan. Sustainability, 2020, 12, 147.                    | 3.2  | 14        |
| 35 | Decentralised electricity generation system based on local renewable energy sources in the Honduran rural residential sector. Clean Technologies and Environmental Policy, 2016, 18, 883-900. | 4.1  | 13        |
| 36 | A novel approach for analyzing the food-energy nexus through on-farm energy generation. Clean Technologies and Environmental Policy, 2017, 19, 1003-1019.                                     | 4.1  | 13        |

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|----|---|-----|-----------|
| 37 | Design and Analysis of District Heating Systems Utilizing Excess Heat in Japan. <i>Energies</i> , 2019, 12, 1202.   | 3.1 | 12        |
| 38 | Economic Analysis on Small-Scale Forest Biomass Gasification Considering Regional Resource Distribution and Technical Characteristics. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2007, 86, 109-118. | 0.2 | 12        |
| 39 | Design of Biomass Co-firing System Considering Resource Distribution and Transportation Optimization. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2010, 89, 42-52.                                    | 0.2 | 10        |
| 40 | Reaction of Fuel NOx Formation for Gas Turbine Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 1998, 120, 474-480.   | 1.1 | 9         |
| 41 | Integration of WTE technologies into the electrical system for low-carbon growth in Venezuela. <i>Renewable Energy</i> , 2016, 86, 1247-1255.   | 8.9 | 9         |
| 42 | Energy and CO <sub>2</sub> Benefit Assessment of Reused Vehicle Parts through a Material Flow Approach. <i>International Journal of Automotive Engineering</i> , 2018, 9, 91-98.  | 0.5 | 9         |
| 43 | EIMY (Energy In My Yard)â€”a concept for practical usage of renewable energy from local sources. <i>Geothermics</i> , 2003, 32, 767-777.  | 3.4 | 8         |
| 44 | NOx Emission characteristics of coal-derived low BTU gas fuel.. <i>Nenryo Kyokai-Shi/Journal of the Fuel Society of Japan</i> , 1990, 69, 952-959.  | 0.0 | 8         |
| 45 | A Study on Low NOx Combustion in LBG-Fueled 1500Â°C-Class Gas Turbine. <i>Journal of Engineering for Gas Turbines and Power</i> , 1996, 118, 534-540.   | 1.1 | 7         |
| 46 | Spatialâ€”Temporal Estimation and Analysis of Japan Onshore and Offshore Wind Energy Potential. <i>Energies</i> , 2021, 14, 2168.   | 3.1 | 7         |
| 47 | The effect of CH <sub>4</sub> contained in coal gas fuel on NOx formation.. 880-02 <i>Nihon Kikai Gakkai Ronbunshu</i> Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1991, 57, 811-818.                 | 0.2 | 6         |
| 48 | Induced technological change and the timing of public R&D investment in the Japanese electricity sector considering a two-factor learning curve. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1347-1360.          | 4.1 | 6         |
| 49 | Economics and a Policy Option on Wood Pellet Fuel in Japan. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2006, 85, 451-460.  | 0.2 | 6         |
| 50 | Wood Flow Chart for Japan: Material and Energy Utilization. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2017, 96, 206-216.  | 0.2 | 6         |
| 51 | Effect of Pressure on Combustion Characteristics in LBG-Fueled 1300Â°C-Class Gas Turbine. <i>Journal of Engineering for Gas Turbines and Power</i> , 1994, 116, 554-558.  | 1.1 | 5         |
| 52 | Economic Ripple Effects of Bioethanol Production in ASEAN Countries: Application of Inter-regional Input-Output Analysis. <i>Japan Agricultural Research Quarterly</i> , 2013, 47, 307-317.   | 0.4 | 5         |
| 53 | Cost Assessment of a District Heating System in Northern Japan Using a Geographic Informationâ€”Based Mixed Integer Linear Programming Model. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .                            | 1.9 | 5         |
| 54 | Optimal Design and Analysis of Sector-Coupled Energy System in Northeast Japan. <i>Energies</i> , 2021, 14, 2823.   | 3.1 | 5         |

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|----|--|-----|-----------|
| 55 | Reaction Analysis of Coal Gaseous Fuel in a Gas Turbine Combustor.. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 1992, 71, 34-41.   | 0.2 | 5         |
| 56 | Design of Energy System Introducing Biomass Resources for a Rural Area. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2004, 83, 1013-1020.   | 0.2 | 5         |
| 57 | Development of a 1300.DEG.C.-class gas turbine combustor burning coal-derived low-BTU gaseous fuels.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1990, 56, 3147-3154.  | 0.2 | 4         |
| 58 | Development of a 1300.DEG.C.-class gas turbine combustor burning coal-derived low BTU gaseous fuels. 3rd Report, Experimental evaluation of an advanced rich-lean combustor.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1991, 57, 803-810.                                  | 0.2 | 4         |
| 59 | Effect of Pressure on Combustion Characteristics in LBGÅ«Fueled 1300Å°CÅ«Class Gas Turbine. , 1993, , .  |     | 4         |
| 60 | Quantification of technological learning by R&D and its application for renewable energy technologies. Transactions of the JSME (in Japanese), 2014, 80, TEP0042-TEP0042.  | 0.2 | 4         |
| 61 | Regional Spatial Analysis of the Offshore Wind Potential in Japan. Energies, 2020, 13, 6303.   | 3.1 | 4         |
| 62 | Experimental Evaluation of a Low NOx LBG Combustor Using Bypass Air. , 1990, , .   |     | 4         |
| 63 | An Inventory Analysis of Sewage Energy System. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 247-257.  | 0.2 | 4         |
| 64 | Biomass: Design of Woody Biomass Energy System Considering Economics of Scale and Demand-and-Supply Equilibrium. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2007, 86, 718-729.  | 0.2 | 4         |
| 65 | Development of a 1300.DEG.C.-Class Gas Turbine Combustor Burning Coal-Derived Low-BTU Gaseous Fuels. 4th Report. Experimental Evaluation of an Advanced Rich-Lean Combustor under High-Pressure Conditions.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1992, 58, 2890-2897. | 0.2 | 3         |
| 66 | A Study on Low NOx Combustion in LBG-Fueled 1500Å°C-Class Gas Turbine. , 1994, , .   |     | 3         |
| 67 | Input-Output Analysis for Installing Renewable Energy Systems. Energy and Environment, 2004, 15, 271-281.  | 4.6 | 3         |
| 68 | Development and analysis of an energy flow considering renewable energy potential. Transactions of the JSME (in Japanese), 2015, 81, 15-00164-15-00164.  | 0.2 | 3         |
| 69 | Analysis of local energy demand-supply distribution and visualization of the energy spatial information toward smart community. Transactions of the JSME (in Japanese), 2016, 82, 16-00100-16-00100.   | 0.2 | 3         |
| 70 | Coal Gaseous Fueled, Low Fuel-NOx Gas Turbine Combustor. , 1990, , .   |     | 3         |
| 71 | The Analysis on Performance of Microalgae-based Biofuel Production System Considering Regional Climate Condition and Transportation. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 1047-1056.  | 0.2 | 3         |
| 72 | Design of Automotive Bioethanol Supply Chain Using Mixed Integer Programming. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2013, 92, 1173-1186.   | 0.2 | 3         |

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|----|--|-----|-----------|
| 73 | Formation Characteristics of Fuel NOx in the Combustion of Coal Gaseous-Fueled Gas Turbine.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1993, 59, 2568-2575.                     | 0.2 | 2         |
| 74 | Liquid-Solid Contact in Microbubble Emission Boiling through Void Signals.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2001, 67, 2304-2310.                                      | 0.2 | 2         |
| 75 | Design of woody biomass energy system considering wide area collection and application to coal co-firing in Tohoku area. Transactions of the JSME (in Japanese), 2015, 81, 14-00395-14-00395.  | 0.2 | 2         |
| 76 | Design and Test of a Low-NOx Advanced Rich-Lean Combustor for LBG Fueled 1300Å°C-Class Gas Turbine. , 1992, , .  |     | 2         |
| 77 | Allocation and Introduction of Biomass Plants Considering Geographic Distribution of Livestock Manure. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2008, 87, 56-67.  | 0.2 | 2         |
| 78 | Optimum System Design for Effective Utilization of Livestock Manure in Rural Area. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2007, 86, 256-264.  | 0.2 | 2         |
| 79 | Design of Bioethanol Production System Utilizing Restorable Fallow Land. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2010, 89, 355-363.  | 0.2 | 2         |
| 80 | Optimization of International Bioethanol Supply in East Asia. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 963-971.   | 0.2 | 2         |
| 81 | Development of a Low-NOx LBG Combustor for Coal Gasification Combined Cycle Power Generation Systems. , 1989, , .  |     | 2         |
| 82 | A Study of Combustion Characteristics of Gasified Coal Fuel. , 1999, , .   |     | 1         |
| 83 | Study on Economic Aspects and the Introduction of Clean Coal Technologies with CCS. Journal of Power and Energy Systems, 2008, 2, 1016-1026.   | 0.5 | 1         |
| 84 | Development of an Energy Economic Model with Endogenous Technical Progress and Feasibility Study of CCS Systems. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1672-1686. | 0.2 | 1         |
| 85 | Potentials of GHG reductions from wastewater treatment for the CDM. Science China Technological Sciences, 2011, 54, 1649-1654.   | 4.0 | 1         |
| 86 | A material flow of hydrogen from production to consumption. Transactions of the JSME (in Japanese), 2016, 82, 15-00574-15-00574.   | 0.2 | 1         |
| 87 | Well-to-wheel analysis and a feasibility study of fuel cell vehicles in the passenger transportation sector. Transactions of the JSME (in Japanese), 2019, 85, 18-00122-18-00122.  | 0.2 | 1         |
| 88 | Optimal Design of Biomass Utilization System for Rural Area Includes Technical and Economic Dimensions. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 176-183.   | 0.2 | 1         |
| 89 | Integrated Assessment of Biomass Energy Systems Considering Effective Utilization of Resources. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2016, 95, 111-122.   | 0.2 | 1         |
| 90 | Quantitative Analysis of Energy Supply and Demand Structure for Regional Decarbonization:A Case Study on Miyako City, Iwate Prefecture and the Miyako Smart Community Project. Studies in Regional Science, 2020, 50, 227-241.                       | 0.1 | 1         |

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|-----|--|-----|-----------|
| 91  | Study of Ammonia Removal from Coal-Gasified Fuel.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1995, 61, 4483-4491.   | 0.2 | 0         |
| 92  | A Study on LBG-Fueled 1500.DEG.C.-class Gas Turbine Combustor for Use in IGCC. 1st Report, Design Study and Atmospheric Combustion Test of a Combustor.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1998, 64, 582-589. | 0.2 | 0         |
| 93  | CO&lt;SUB align=right&gt;2 emissions mitigation policies and their effects on the Thailand energy system. International Journal of Global Energy Issues, 2007, 28, 161.  | 0.4 | 0         |
| 94  | Development of an Energy-Economic Model with Endogenous Technological Progress and Feasibility Study of CCS Systems. Heat Transfer - Asian Research, 2014, 43, 332-351.  | 2.8 | 0         |
| 95  | Analysis of Trade-offs Between First-generation Biofuels and Food Production for Japan Using CGE Modelling. International Journal of Economic Policy Studies, 2016, 11, 1-24.  | 0.6 | 0         |
| 96  | Supply potential estimation and economic evaluation of carbon free hydrogen considering spatial information. Transactions of the JSME (in Japanese), 2016, 82, 16-00119-16-00119.  | 0.2 | 0         |
| 97  | DESIGN OF THE SUSTAINABLE ENERGY SYSTEM IN A LOCAL AREA CONSIDERING ECONOMIC AND RESOURCE CIRCULATION. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2016, 72, II_269-II_276.  | 0.1 | 0         |
| 98  | Steam turbine life cycle cost evaluations and comparison with other power systems. , 2017, , 93-106.   |     | 0         |
| 99  | Preliminary study of energy security and energy resilience evaluation in Japan. Transactions of the JSME (in Japanese), 2017, 83, 16-00161-16-00161.   | 0.2 | 0         |
| 100 | Design of a sustainable woody biomass supply chain considering facility location problem. Transactions of the JSME (in Japanese), 2018, 84, 17-00565-17-00565.   | 0.2 | 0         |
| 101 | Design of a district heating network based on the linear heat density. Transactions of the JSME (in) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlock   | 0.2 | 0         |
| 102 | Design for biomass energy systems with application to rural areas. Journal of Environmental Conservation Engineering, 2006, 35, 394-398.   | 0.1 | 0         |
| 103 | Economic Analyses of Solid Waste Management to Improve Recycling and Minimize Landfills. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2006, 85, 49-57.  | 0.2 | 0         |
| 104 | Study on Economic Aspects and the Introduction of Clean Coal Technologies with CCS. , 2007, , 778-782.   |     | 0         |
| 105 | A204 Energy systems analysis of CCS feasibility with endogenous technological change(Gas Turbine-5). The Proceedings of the International Conference on Power Engineering (ICOPE), 2009, 2009.2, _2-19_-_2-24_.  | 0.0 | 0         |
| 106 | 217 Design and performance evaluation of an optimal municipal solid waste utilization system considering energy options in Russia. The Proceedings of the Symposium on Environmental Engineering, 2010, 2010.20, 135-138.  | 0.0 | 0         |
| 107 | Nuclear Energy Development in Japan. , 2011, , 98-115.   |     | 0         |
| 108 | Inventory Analysis of Biogas Utilization System in the Wastewater Treatment for the CDM. , 2011, ,   |     | 0         |

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|-----|--|-----|-----------|
| 109 | Economic Ripple Effects of Policy Coordination on Bio-ethanol Production and Trade in East Asia: Application of International Inter-regional Input-Output Analysis. <i>Studies in Regional Science</i> , 2011, 41, 635-650.  | 0.1 | 0         |
| 110 | Allocating Optimum Aircrafts for Less Environmental Impacts and Future Carbon Emission Mitigation. <i>Journal of the Japan Society for Aeronautical and Space Sciences</i> , 2014, 62, 157-162.  | 0.1 | 0         |
| 111 | ICOPE-15-1059 Design of woody biomass supply chain for co-firing considering characteristics of bio-fuel. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-.                                      | 0.0 | 0         |
| 112 | ICOPE-15-1045 Analysis of food production and energy nexus through a model proposed for multifunctional farms considering land use efficiency. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-. | 0.0 | 0         |
| 113 | ICOPE-15-1055 Analysis of the introduction of biofuel from rice in Japan using a computable general equilibrium model. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-.                         | 0.0 | 0         |
| 114 | ICOPE-15-1044 Quantitative evaluation of national energy security by using multi-objective analysis. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-.   | 0.0 | 0         |
| 115 | Design of Sustainable EFB Utilization System Considering International Transportation. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2018, 97, 314-329.  | 0.2 | 0         |
| 116 | Introduction on mobile hybrid systems: Motivations, environmental aspects, policies, and technical challenges. , 2022, , 251-277.  |     | 0         |