

CURRICULUM VITAE
Keishiro Hara, Ph.D.

Last Updated: 02/2024

Current Position

Professor and Co-director,
Center for Future Innovation (CFI), Graduate School of Engineering, Osaka University
Director, *Hara Research Base for Future Design*, Center of Excellence in Advanced Research,
TechnoArena, Graduate School of Engineering, Osaka University

Employment

10/2019 Professor, Graduate School of Engineering, Osaka University
04/2016 Associate Professor, Graduate School of Engineering, Osaka University
04/2011 Associate Professor, Center for Environmental Innovation Design for Sustainability, Osaka University
04/2009 Associate Professor, Research Institute for Sustainability Science, Osaka University
08/2006 Assistant Professor, Research Institute for Sustainability Science, Osaka University
04/2004 Researcher, Institute of Global Environmental Strategies

Policy Position

10/2016 - 03/2018 Senior Officer for Technology Policy and Strategy, Manufacturing Industries Bureau,
Ministry of Economy, Trade and Industry (METI), the Government of Japan

Adjunct Position

2017- Consulting Fellow, Research Institute of Economy, Trade and Industry (RIETI)
2019- Senior Fellow, The Tokyo Foundation for Policy Research
2019-2020 Collaborative researcher, Research Institute for Humanity and Nature

Education

2004 Ph.D., Environmental Studies, The University of Tokyo
2001 Master, Environmental Studies, The University of Tokyo
1999 B.A., Engineering, The University of Tokyo

06-08/2002 Young Scientist, International Institute for Applied Systems Analysis (IIASA)
06-09/2003 Visiting doctoral student, Chalmers University of Technology (Academic Frontiers Student Exchange Promotion Program by MEXT, Government of Japan)

Professional activities

- 2023- Chair, *Kinki* Regional Committees on Energy Supply and Demand and Prevention of Global Warming
- 2022- Board member, Sustainability Science Consortium
- 2021- Board of Directors, Society of Environmental Science, Japan
- 2021- Vice chairman, Committee of Industry and Technology Promotion, The Osaka Chamber of Commerce and Industry
- 2021 Co-Chair, Executive Committee, EcoDesign2021
- 2018-2020 Vice Chairman, Future Design Subcommittee, Science Council of Japan
- 2017-2020 Member, Science Council of Japan
- 2017 International Panel of Experts, Belmont forum
- 2018- Member, Future Design Project, The Tokyo Foundation for Policy Research
- 2013- Editorial board, *Sustainability Science*
- 2015- Editorial member, *Journal of Japan Society on Water Environment*

Honors and Awards

- 2021 Fellow, The Engineering Academy of Japan
- 2021 PI, *Hara Research Base for Future Design*, Center of Excellence in Advanced Research, TechnoArena, Graduate School of Engineering, Osaka University
- 2016 Fuji Electric Award (SES Environmental Research Proposal Award)
- 2014 Paper of Editors' Choice, *Environmental Development* (Elsevier) (Co-authored)
- 2014 Osaka University Presidential Awards for Outstanding Contribution in Research
- 2012 Excellence in presentation, EcoDesign 2011 (Co-authored), EcoDesign Japan
- 2010 Member, International Waste Working Group
- 2009 Top reviewer award for 2009, *Waste Management* (Elsevier)

Research Interests

Future Design, Sustainability Science, Environmental and Energy Policy, Environmental Engineering, Technology Policy and Innovation

Referee Services

Applied Energy; Sustainable Cities and Society; Habitat International; Energy Efficiency; Energy Policy; Futures; Environmental Research; Environmental Development; Desalination and Water Treatment; Journal of Cleaner Production; Sustainability; International Journal of Sustainable Transportation; International Journal of Automation Technology; American Society of Mechanical Engineers(ASME), IDETC/CIE; Resources, Conservation and Recycling; Journal of Material Cycles and Waste Management; Energies; International Journal of Energy and Environmental Engineering; Journal of Geography and

Regional Planning; Energy Conversion and Management; Cities; Journal of Industrial Ecology; Journal of Hazardous Materials; Waste Management; Frontiers of Environmental Science & Engineering in China; Sustainability Science; Journal of Environmental Management; Environment, Development and Sustainability; Journal of Environmental Information Science; Journal of Global Environmental Engineering; Journal of Life Cycle Assessment, Japan (日本LCA学会誌); The Economic Review(経済研究); Global Environmental Engineering Research (地球環境研究論文集); Environmental System Research (環境システム研究)

Selected Publication (Peer-reviewed papers)

- Hara K, Miura I, Suzuki M, Tanaka T (2024) [Assessing Future Potentiality of Technologies from the Perspective of “Imaginary Future Generations” – a Case Study of Hydrothermal Technology](#), *Technological Forecasting and Social Change*, 202, 123289
- Hara K, Nomaguchi Y, Fukutomi S, Kuroda M, Fujita K, Kawai Y, Fujita M, Kobashi T (2023) [Policy Design by “Imaginary Future Generations” with Systems Thinking - a Practice by Kyoto City towards Decarbonization in 2050](#), *Futures*, 103272
- Fujita K, Kurashiki T, Hara K, Ikeda J, Nakamura T (2023) Analysis of the Effects of Adopting "Imaginary Future Generations" on the Design of Technology Development and Business Proposal - Case Study of Workshop at a Plating Processing Company, *Proceedings of EcoDesign 2023*, 955-962
- Hara K, Kuroda M, Nomaguchi Y (2023) [How does Research and Development \(R&D\) Strategy Shift by Adopting Imaginary Future Generations? - Insights from Future Design Practice in a Water Engineering Company](#), *Futures*, 152, 103221
- Hara K, Naya M, Kitakaji Y, Kuroda M, Nomaguchi Y (2023) [Changes in Perception and the Effects of Personal Attributes in Decision-making as Imaginary Future Generations – Evidence from Participatory Environmental Planning](#), *Sustainability Science*, 18, 2453-2467
- Hara K, Miura I, Suzuki M and Tanaka T (2023) [Designing Research Strategy and Technology Innovation for Sustainability by Adopting “Imaginary Future Generations” – A Case Study Using Metallurgy](#), *Futures and Foresight Science*, 5(3-4), e163
- Nomaguchi Y, Senoo R, Fukutomi S, Hara K, Fujita K(2023) [Utilization method and effect evaluation of systems thinking in Future Design: Comparative analysis of policy-making workshops in local governments](#), *International Journal of Automation Technology*, 17(2), 183-193
- Fujita K, Tanahara W, Kurashiki T, Hara K, Ikeda J, Nakamura K (2023) [A Study on the Effectiveness of Workshops for Proposition of Sustainable Business Based on Future Design](#), *Proceedings of the Japan Conference on Structural Safety and Reliability 2023*, 301-307 (in Japanese)
- Hosomi T, Kondo G, Wakamoto K, Hara K, Kurashiki T (2023) [Analysis of the effectiveness of adopting Future Design on new business proposals from the perspective of future generations - A case study of a company](#), *The Journal of Science Policy and Research Management*, forthcoming (In Japanese)
- Tasaki T, Kameyama Y, Masui T, Takahashi K, Tsurumi T, Hara K, Hotta Y, Koide R (2023) [Evolution of](#)

- [Sustainability Science in the Era of the Anthropocene](#), *Environmental Science*, 36(2), 53-82 (In Japanese)
- Hosomi T, Kondo G, Wakamoto K, Hara K, Kurashiki T (2022) [Proposal of a Method for Searching Latent Needs in the Food Field based on Future Design](#), *The Journal of Science Policy and Research Management*, 37 (1), 63-77 (In Japanese)
 - Hiromitsu T, Kitakaji Y, Hara K and Saijo T, [What do people say when they become “future people”? —Positioning Imaginary Future Generations \(IFGs\) in general rules for good decision making](#), *Sustainability*, 13(12), 6631, 2021
 - Hara K, Kitakaji Y, Sugino H, Yoshioka R, Takeda H, Hizen Y and Saijo T (2021) [Effects of Experiencing the Role of Imaginary Future Generations in Decision-Making - a Case Study of Participatory Deliberation in a Japanese Town](#), *Sustainability Science*, 16(3), 1001-1016
 - Kuroda M, Uwasu M, Bui X.T, Nguyen P.D, and Hara K (2021) [Shifting the Perception of Water Environment Problems by Introducing “Imaginary Future Generations](#), *Futures*, 126, 102671
 - Kobashi T, Yoshida T, Yamagata Y, Naito K, Pfenninger S, Say K, Takeda Y, Ahl A, Yarime M, Hara K (2020) [On the Potential of “Photovoltaics + Electric vehicles” for Deep Decarbonization of Kyoto’s Power Systems: Techno-Economic-Social Considerations](#), *Applied Energy*, 275, 115419
 - Peter Hoffmann, Yutaka Nomaguchi, Keishiro Hara, Kana Sawai, Ingenuin Gasser, Myriam Albrecht, Benjamin Bechtel, Jana Fischereit, Kikuo Fujita, Philine Gaffron, Markus Quante, Jürgen Scheffran, K. Heinke Schlünzen, Malte von Szombathely (2020) [Multi-Domain Design Structure Matrix approach applied to Urban System Modeling](#), *Urban Science*, 4(2), 28
 - Uwasu M, Kishita Y, Hara K and Nomaguchi Y (2020) [Citizen-participatory Scenario Design Methodology with Future Design Approach: A Case Study of Visioning for Low-Carbon Society in Suita City, Japan](#), *Sustainability*, 12(11), 4746
 - Hara, K., Yoshioka, R., Kuroda, M., Kurimoto, S and Saijo, T (2019) [Reconciling intergenerational conflicts with imaginary future generations - Evidence from a participatory deliberation practice in a municipality in Japan](#), *Sustainability Science*, 14(6), 1605-1619
 - Tateyama Y, Kurasawa K, Hirayama M, Kurashiki T and Hara K (2019) [Analysis of Future Design Workshop on Disaster Prevention from the Perspective of Time Orientation](#), *Engineering Education* (in Japanese), 67(3), 3_14-3_20
 - Tateyama Y, Kurasawa K, Hirayama M, Kurashiki T and Hara K (2019) Risk Communication Based on Future Design, *Journal of the Society of Materials Science, Japan*, 68 (3), 265-270 (In Japanese)
 - Kuroda, M., Hara, K., Takekawa, M., Uwasu, M and Ike, M (2018) [Historical trends of academic research on the water environment in Japan: Evidence from the academic literature in the past 50 years](#), *Water*, 10(10), 1456
 - Kishita Y, Uwasu M, Hara K, Kuroda M, Takeda H, Umeda Y, Shimoda Y (2018) [Toward Designing Sustainability Education Programs—A Survey of University Curricula through Semi-structured Interviews](#), *Sustainability Science*, 13(4), 953-972
 - Tamura M, Onuki, M, Sekiyama, M, Hara, K, Uwasu, M, Tsuji, N, Ishimura G, Tanaka N, Mori A, Mino T

- (2018) [Developing Joint Educational Programs in Sustainability Science across Different Universities - A Case Study from Japan](#), *Sustainability Science*, 13 (3), pp 849–860
- Tateyama Y, Kurasawa K, Kurashiki T and Hara K (2018) Validation of an integrated approach of future design and scenario planning— a case study of disaster prevention workshop, *Engineering Education*, 66 (2), 42-47 (in Japanese)
 - Han, J., Liang, H., Hara, K and Uwasu, M (2018) [Quality of Life in China's Largest City: A 20-Year Subjective and Objective Composite Assessment](#), *Journal of Cleaner Production*, 173 (1), 135-142
 - Hara, K (2017) [Sustainability trend in China and prospects of assessment methodology](#), *Sustainability Science*, 12 (6), 887–890
 - Nomaguchi, Y., Tanaka, H., Sakakibara, A., Fujita, K., Kishita, Y., Hara, K., Uwasu, M (2017) [Designing Scenarios on Linked Planning of Subsidy Systems and Power Grids toward Building Distributed Energy System – Case Study of PV Diffusion in Mishima Area, Osaka](#), *Energy*, 140 (1), 779-793
 - Kumazawa, T., Hara, K., Endo, A., Taniguchi, M (2017) [Supporting Collaboration in Interdisciplinary Research of Water-Energy-Food Nexus by Means of Ontology Engineering](#), *Journal of Hydrology: Regional Studies*, 11, 31-43
 - Tsuda, K., Uwasu, M., Hara, K and Fuchigami, Y (2017) [Approaches to induce behavioral changes with respect to electricity consumption](#), *Journal of Environmental Studies and Sciences*, 7(1), 30–38
 - Nomaguchi, Y., Kawakami, K., Fujita, K., Kishita, Y., Hara, K and Uwasu, M (2016) [Robust Design of System of Systems using Uncertainty Assessment based on Lattice Point Approach: Case Study of Distributed Generation System Design in a Japanese Dormitory Town](#), *International Journal of Automation Technology*, 10(5), 678-689
 - Fuchigami, Y., Hara, K., Uwasu, M and Kurimoto S (2016) [Analysis of the Mechanism Hindering Sustainable Forestry Operations: A Case Study of Japanese Forest Management](#), *Forests*, 7(8), 182
 - Hara, K., Kuroda, K, Yabar, H., Kimura, M and Uwasu, M (2016) [Historical development of wastewater and sewage sludge treatment technologies in Japan – A patent data analysis over the past 50 years](#), *Environmental Development*, 19, 59-69
 - Kishita, Y., Ohishi, Y., Uwasu, M., Kuroda, M., Takeda, H and Hara, K (2016) [Evaluating the Life Cycle CO2 Emissions and Costs of Thermoelectric Generators for Passenger Automobiles - a Scenario Analysis](#), *Journal of Cleaner Production*, 126, 607–619
 - Hara, K., Kumazawa, T., Kimura, M and Tsuda, K (2016) [Participatory approach in vision setting: Emerging initiatives in local municipalities in Japan](#), *Sustainability Science*, 11 (3), 493-503
 - Fuchigami, Y., Hara, K., Uwasu, M and Kurimoto S (2016) [Analysis of effect on CO2 emission reduction for the use of Bio-coke: A case study of Osaka, Japan](#), *Journal of Wood Science*, 62 (1), 93-100
 - Kishita, Y, Hara, K., Uwasu, M and Umeda, Y (2016) [Research Needs and Challenges Faced in Supporting Scenario Design in Sustainability Science: A Literature Review](#), *Sustainability Science*, 11(2), 331-347

- Suzuki, M., Ikeda, K., Kusago, T., Hara, K., Uwasu, M and Tyunina, O (2015) [Analysis of Citizen's Priorities over Sustainable Development Goals in Japan - Evidence from a Questionnaire Survey](#), *Global Environmental Research*, 19 (2), 155-164
- Hara, K., Uwasu, M., Kishita Y and Takeda, H (2015) [Determinant factors of residential consumption and perception of energy conservation: Time-series analysis by large-scale questionnaire in Suita, Japan](#), *Energy Policy*, 87, 240-249
- Uwasu, M., Hara, K., and Kobayashi, H. (2014) [Analysis of Energy Consumption Patterns and Climate Effects Using Panel Data](#), *International Journal of Automation Technology*, 8(5), 626-633
- Uwasu M, Hara K, Yabar H (2014) [World Cement Production and Environmental Implications](#), *Environmental Development*, 10, 36-47
- Tsuda, K., Low, B.H., Takahashi, H., Hara, K., Uwasu, M and Umeda, Y (2014) [Potential Accounting of Regional Biomass Resource Circulations in Japan: A Prospective on Regional Rural-Urban Partnerships](#), *Environmental Development*, 9, 24-42
- Hara, K., Uwasu, M., Kurimoto, S., Yamanaka, S., Umeda, Y and Shimoda Y (2013) [Mapping Research Activities and Technologies for Sustainability and Environmental Studies - a Case Study at University Level](#), *Journal of Environmental Studies and Sciences*, 3 (1), 42-48
- Tsuda, K., Hara, K and Uwasu, M (2013) [Prospects and Challenges for Disseminating Life Cycle Thinking towards Consumers' Environmental Conscious Behaviors](#), *Sustainability*, 5(1), 123-135
- Kumazawa, T., Kozaki, K., Matsui, T., Saito O., Ohta M., Hara, K., Uwasu, M., Kimura, M and Mizoguchi R (2014) [Initial Design Process of the Sustainability Science Ontology for Supporting Co-deliberation](#), *Sustainability Science*, 9 (2), 173-192
- Uwasu, M., Naito, T., Yabar, H and Hara, K (2013) [Assessment of Japanese Recycling Policies for Home Electric Appliance: Cost-effectiveness Analysis and Socioeconomic and Technological Implications](#), *Environmental Development*, 6, 21-33
- Yabar, H., Uwasu, M and Hara, K (2013) [Tracking environmental innovations and policy regulations in Japan: case studies on dioxin emissions and electric home appliances recycling](#), *Journal of Cleaner Production*, 44, 152-158
- Hara, K., Uwasu, M., Kobayashi, H., Kurimoto, S., Yamanaka, S., Shimoda, Y and Umeda, Y (2012) [Enhancing Meso Level Research in Sustainability Science – Challenges and Research Needs](#), *Sustainability*, 4, 1833-1847
- Kumazawa, T., Uwasu, M, Hara, K., Kimura, M and Saito, O (2012) Designing collaborative approach among experts in an interdisciplinary research project – case study on Sustainability Science, *Papers on Environmental Information Science*, Vol.26, pp.165-170, Center for Environmental Information Science (In Japanese)
- Yabar, H., Hara, K. and Uwasu M (2012) [Comparative Assessment of the co-evolution of environmental indicator systems in Japan and China](#), *Resources, Conservations and Recycling*, 61, 43-51

- Uwasu, M., Hara, K., Yabar, H and Zhang, H (2012) [Analysis of energy productivity and determinant factors: a case study of China's provinces](#), *Journal of Sustainable Development*, 5(6), 1-9
- Hara, K and Yabar, H. (2012) [Historical Evolution and Development of Waste Treatment and Recycling Systems: Analyses of Japan's Experiences](#), *Journal of Environmental Studies and Sciences*, Vol. 2 (4), pp. 296-307
- Zhang, H., Uwasu, M., Hara, K., and Yabar, H. (2011) [Sustainable Urban Development and Land Use Change - A Case Study of the Yangtze River Delta in China](#), *Sustainability*, 3 (7), 1074-1089
- Hara, K., Yabar, H., Uwasu, M and Zhang, H (2011) [Energy Intensity Trends and Scenarios for China's Industrial Sectors – a Regional Case Study](#), *Sustainability Science*, 6 (2), 123-134
- Zhang, H., Uwasu, M., Hara, K., and Yabar, H. (2010) [Land use Change Patterns and Sustainable Urban Development in China](#), *Journal of Asian Architecture and Building Engineering*, 9(1), 131-138
- Zhang, H., Hara, K., Yabar, H., Yamaguchi Y., Uwasu, M and Morioka, T. (2009) [Comparative analysis of socio-economic and environmental performances for Chinese EIPs: case studies in Baotou, Suzhou and Shanghai, China](#), *Sustainability Science*, 4 (2), 263-279
- Uwasu, M., Yabar, H., Hara, K., Shimoda, Y and Saijo T. (2009) [Educational Initiative at Osaka University in Sustainability Science - Mobilizing Science and Technology towards Sustainability](#), *Sustainability Science*, 4 (1), 45-53
- Hara, K., Uwasu, M., Yabar, H and Zhang, H (2009) [Sustainability Assessment with Time-Series Scores – A Case Study of Chinese Provinces](#), *Sustainability Science*, 4 (1), 81-97
- Yabar, H., Hara, K., Uwasu, M., Yamaguchi, Y., Zhang, H., and Morioka, T. (2009) [Integrated Resource Management towards a Sustainable Asia: Policy and Strategy Evolution in Japan and China](#), *International Journal of Environmental Technology and Management*, 11(4), 239-256
- Yabar, H., Hara, K., and Zhang, H (2008) [Impacts of Environmental Policy on technological innovations: Case Study in Japan](#), *Papers on Environmental Information Science*, 22, 37-42, Center for Environmental Information Science
- Zhang, H., Uwasu, M., Hara, K., Yabar, H., Yamaguchi, Y., and Murayama, T (2008) [Analysis on land use changes and environmental loads during urbanization in China](#), *Journal of Asian Architecture and Building Engineering*, 7 (1), 109-115
- Hara, K., and Mino, T (2008) [Evaluation of Sewage Sludge Recycling Options and Management System in Tokyo](#), *Waste Management*, 28 (12), 2645-2652
- Hara, K (2006) [Groundwater Contamination and Quality Management Policy in Asia](#), *International Review for Environmental Strategies*, 6 (2), 291 - 306
- Hara K., Sato H. and Mino T. (2002). Analysis of Energy Consumption in Sludge Treatment and Recycling Processes in the Tokyo Area, *Environmental Systems Research*, 30, 371-378 (in Japanese)

Preprint papers

- Iwasaki Y, Kobashi T, Fuchigami Y, Hara K (2023) [Future Scenarios and Assessment of Gradual Diffusion of Renewable Energy Technologies towards 2050: Case Study of a Japanese Municipality](#), *SSRN* (preprint)
- Hara K, Arai T, Liao Z, Ifuku N, Suzuki M (2023) [Designing Research and Development Strategies for Sustainable Supply Systems of Rare Metals from the Perspective of “Imaginary Future Generations” – A Participatory Deliberation Experiment](#), *SSRN* (preprint)
- Gaper E, Hara K (2023) [Lasting Effects of Future Design Practices and their Potential Application in the US Building Industry](#), *SSRN* (preprint)
- Hara K, Fuchigami Y, Arai T, Nomaguchi Y (2023) [Compatible Effects of Adopting Imaginary Future Generations and Systems Thinking in Exploring Future Challenges - Evidence from a Deliberation Experiment](#), *SSRN* (preprint)
- Hara K, Fuchigami Y, Nomaguchi Y, Kurashiki T, Eguchi M (2023) [Evaluation Criteria for R&D adopting “Imaginary Future Generations” – a Deliberation Experiment in an Engineering Company](#), *SSRN* (preprint)
- Hara K, Miura I, Suzuki M and Tanaka T (2022) [Assessing Future Potentiality of Technology Seeds from the Perspective of “Imaginary Future Generations” – a Case Study of Hydrothermal Technology](#), *SSRN* (preprint)

Other Publications (In Japanese)

- Hara, K (2023) Methodology of Future Design Practice and Research Prospects, *Design Engineering*, Vol.58(2), pp. 57-63
- Hara, K., Mikami, K (2019) Policy Challenges and Prospects for Manufacturing in Japan in the Era of Digitalization, *Design Engineering* Vol.54, No.7
- Hara, K (2018) Roles of Imaginary Future Generations — Evidence from Participatory Future Design Deliberation Practices, *Trends in the Sciences*, Vol 23, No.6 pp.13-15
- Uwasu, M and Hara K (2017) Non-point Source Pollution Control and Public Engagement: A Case Study of US, *Gyoseiho-Kenkyu*, Vol.18, pp109-120
- Hara, K., Saijo, T (2017) Future Design – Evidence and Insights from Participatory Deliberations, *Journal of Japan Society on Water Environment*, Vol.40 (4), pp. 112-116
- Hara K (2016) Methodology and Practice of Meso Level Research – Bridging Technology Seeds and Future Visions, *Journal of Environmental Conservation Engineering*, Vol. 45 (10) , No. 10, pp. 508 – 514
- Hara, K (2016) Participatory Future Design in Pursuit of Sustainability, *Design Engineering*, Vol.51, No.5, pp. 297 – 302
- Hara, K (2016) Comment: Future Design – Visioning in collaboration with virtual future generations and practices in local municipalities, Vo.12, No.1, pp.64-71, *Journal of Public Affairs*
- Hara, K (2016) Practices and governance for participatory vision setting in pursuit of a sustainable

society- Evidences from three municipalities, *Gyoseiho-Kenkyu*, Vol.12, pp.49-63

- Hara, K (2014) Meso level research in pursuit of a sustainable society – research needs and challenges, *Design Engineering*, Vol. 49, No.7, pp. 337 – 344
- Hara, K (2014) Methodology of Sustainability Assessment and Application to Meso Level Research, *Policy Science*, Vol.21 (3), pp. 117-132
- Hara, K (2013) Environmental innovation design through a strategic linkage between research seeds and visions – Theoretical framework and approaches, *The Journal of Science Policy and Research Management*, Vol.28 (2), pp. 185-195
- Hara, K (2008) Urban Sustainability and Environment, in Public Policy Studies Association (Eds), *Journal of Public Policy Studies*, Vol.8 pp74-86

Book editor

- Fukushima S, Kobayashi H, Ymasue E, Hara K (eds), 2023, [EcoDesign for Sustainable Products, Services and Social Systems I](#), Springer
- 池道彦 原圭史郎編著 (2016) 『想創技術社会』 大阪大学出版会
- 原圭史郎 梅田靖 編 (2011) 『サステイナビリティ・サイエンスを拓く - 環境イノベーションへ向けて』 大阪大学出版会

Book Chapters

- 原圭史郎 (2021) 脱炭素社会に向けたフューチャー・デザイン、「都市の脱炭素化」大河出版社, pp178-187
- 原圭史郎 (2021) 持続可能な水管理とフューチャー・デザイン『水環境の辞典』日本水環境学会編、朝倉書店, pp.514-517
- Hara, K (2020) Future Design for Sustainable Water Resource Use from the Perspective of Ground Water Management, in "Future Design: Incorporating Preferences of Future Generations for Sustainability", Saijo T (Ed), Springer, pp:105-119
- Kumazawa, T., Hara, K., Endo, A and Taniguchi, M (2018) Assessment of collaboration process in interdisciplinary research of water-energy-food nexus by means of ontology engineering, In “Water-Energy-Food Nexus: Human-Environmental Security in the Asia-Pacific Ring of Fire” Endo, A and Oh, T (Eds), pp. pp.301-320, Springer
- 原圭史郎 (2015) 地下水管理問題から考える水資源利用とフューチャーデザイン『フューチャーデザイン』西條辰義 編、pp. 197-217 勁草書房 (ISBN-13: 978-4326550739)
- Hara, K. (2014) Water Security and Management towards Regional Sustainability – Lessons from Ground Water Management practices in Asia in “Strategic Adaptation towards Water Crisis and IWRM” Nakagami, K., Choudhury, G.A, Jianhua, L and Fukushi, K (Eds), University Press Limited, pp. 31-44 (ISBN :978 984 506 133 9)

- Hara, K (2013) Urban Development and its Impacts on Energy and Resource Consumptions in the Yangtze River Delta –Trends and Future Prospects in “Yangtze River: Geography, Pollution and Environmental Implications”, Tracy B. Maloney and Boyce R. Hutchins (Eds), pp. 121-128, Nova Science Publishers, N.Y, (ISBN: 978-1-62618-286-8)
- Hara, K and Yabar, H (2011) Recycling Technologies and Policies towards a Sound-Material Cycle Society in Japan- Case Study of Containers and Packages, in “Recycling, Cost and Benefits” Charlene J. Nielsen (Ed), pp.259-270, Nova Science Publishers, N.Y. (ISBN 978-1-61209-507-3)
- Uwasu M., Kimura, M., Hara, K., Yabar, H and Shimoda Y. (2011) Practices and Barriers in Sustainability Education: A Case Study of Osaka University, in “Sustainability Science: A Multidisciplinary Approach” Komiyama, H., Takeuchi, K, Shiroyama, H and Mino, T (Eds), pp. 399-408, United Nations University Press, ISBN 978-92-808-1180-3
- Hara, K (2011) Indicators System as an Instrument for Establishing Sustainable Resource-Circulating Societies, in “Establishing a Resource-Circulating Society in Asia - Challenges and Opportunities” Morioka, T., Hanaki, K., and Moriguchi, Y (Eds), pp.52–73, United Nations University Press. (ISBN 978-92-808-1182-7)
- Yabar, H., Zhang H., and Hara, K (2011) Research Networking on Resource-circulation Initiatives in Asia, in “Establishing a Resource-Circulating Society in Asia - Challenges and Opportunities” Morioka, T., Hanaki, K., and Moriguchi, Y (Eds), pp.86-100, United Nations University Press. (ISBN 978-92-808-1182-7)
- Hara, K., Uwasu, M., Shimoda, Y and Umeda, Y(2011) Synthesis of Research and Technology Seeds at Osaka University – a Discussion for Advancing Sustainability Research, in “Design for Innovative Value Towards a Sustainable Society, Proceedings of EcoDesign 2011: 7th International Symposium on Environmentally Conscious Design and Inverse Manufacturing” M. Matsumoto, Y. Umeda, K. Masui, and S. Fukushige (Eds), Springer, ISBN: 978-94-007-3010-6, pp.576-581
- Hara, K. (2010) Groundwater Use and Associated Social Impacts: Challenges in Asian Cities, in “Water Shortages: Environmental, Economic and Social Impacts” Andrew C. Briggs (Ed), pp. 143-157, Nova Science Publishers, N.Y, ISBN: 978-1-61728-309-3
- Hara, K (2009) Sewage Sludge Treatment and Recycling Systems in Japan: Trends, Challenges and Future Perspectives, in “Sludge: Types, Treatment Processes and Disposal”, Richard E. Baily (Ed), pp. 289-296, Nova Science Publishers, N.Y. (ISBN: 978-1-60741-842-9)
- IGES Freshwater Resources Management Project (Eds) (2007) “Sustainable Groundwater Management in Asian Cities: A final report of Research on Sustainable Water Management Policy,” Institute for Global Environmental Strategies. (ISBN: 4-88788-039-9)
- 津田和俊・原圭史郎・Low Bi Hong (2011) ”都市農村連携の可能性と未来像” 『都市・農村連携と低炭素社会のエコデザイン』 所収, pp44-50, 技報堂出版 (ISBN-13: 978-4765534482)

Selected Conference Proceedings papers (including peer-reviewed articles)

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