## Masahiko Hirao

## List of Publications by Year

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Analysis of factors influencing consumers' proenvironmental behavior based on life cycle thinking.
2 Part l: effect of environmental awareness and trust in environmental information on product choice.
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Journal of Cleaner Production, 2016, 117, 10-18.
Life-cycle assessment of domestic and transboundary recycling of post-consumer PET bottles.
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International Journal of Life Cycle Assessment, 2010, 15, 590-597.

Evaluating nanotechnology opportunities and risks through integration of life-cycle and risk
assessment. Nature Nanotechnology, 2017, 12, 734-739.

Decision Support Method for the Choice between Batch and Continuous Technologies in Solid Drug
Product Manufacturing. Industrial \& Engineering Chemistry Research, 2018, 57, 9798-9809.
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Framework for analyzing the effects of packaging on food loss reduction by considering consumer behavior. Journal of Cleaner Production, 2018, 174, 26-34.

A structured framework and language for scenario-based Life Cycle assessment. International Journal
$7 \quad \begin{aligned} & \text { A structured framework and language for } \\ & \text { of Life Cycle Assessment, 2002, 7, } 317 .\end{aligned}$

Design of recycling system for poly(methyl methacrylate) (PMMA). Part 1: recycling scenario analysis.
International Journal of Life Cycle Assessment, 2014, 19, 120-129.

Practical Method of Assessing Local and Global Impacts for Risk-Based Decision Making: A Case Study
Practical Method of Assessing Local and Global Impacts for Risk-Based Decision Making: A Case Stu
of Metal Degreasing Processes. Environmental Science \& Technology, 2008, 42, 4527-4533.

Environmental Performance of Biomass-Derived Chemical Production: A Case Study on
10 Environmental Performance of Biomass-Derived Chemical Production: A Case Study on
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Activity Modeling for Integrating Environmental, Health and Safety (EHS) Consideration as a New
11 Element in Industrial Chemical Process Design. Journal of Chemical Engineering of Japan, 2008, 41, 884-897.

12 Designing Interventions for Behavioral Shifts toward Product Sharing: The Case of Laundry Activities in Japan. Sustainability, 2018, 10, 2687.
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Environmental potential of reusing, renting, and sharing consumer products: Systematic analysis approach. Journal of Cleaner Production, 2020, 242, 118487.

Development of a Structure-Based Lumping Kinetic Model for Light Gas Oil Hydrodesulfurization. Energy \& Fuels, 2017, 31, 5673-5681.
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Technoâ€economic and environmental assessment of bioethanolâ€based chemical process: A case study on ethyl acetate. Environmental Progress and Sustainable Energy, 2011, 30, 675-684.
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Design of recycling system for poly(methyl methacrylate) (PMMA). Part 2: process hazards and material flow analysis. International Journal of Life Cycle Assessment, 2014, 19, 307-319.

55, 3380-3388.

A graphical representation for consequential life cycle assessment of future technologies. Part 1:

23 | Consumer Motivation and Environmental Impact of Laundry Machine-Sharing: Analysis of Surveys in |
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| Tokyo and Bangkok. Sustainability, 2020, 12, 9756 . |
| Systematic packaging design tools integrating functional and environmental consequences on |
| product life cycle: Case studies on laundry detergent and milk. Packaging Technology and Science, |
| 2020, 33, 445-459. | A graphical representation for consequential life cycle assessment of future technologiesâ€"Part 2:

Method for reducing environmental, health, and safety risks in active pharmaceutical ingredient 104, 304-313. Design-oriented regression models for H 2 O 2 decontamination processes in sterile drug product 466-473.
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Multiobjective decision-support tools for the choice between single-use and multi-use technologies
30 in sterile filling of biopharmaceuticals. Computers and Chemical Engineering, 2019, 122, 114-128.
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Extension of Event Correlation Analysis for Rationalization of Plant Alarm Systems. Kagaku Kogaku
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31 Ronbunshu, 2011, 37, 338-343.

32 Laundry Habits in Bangkok: Use Patterns of Products and Services. Sustainability, 2019, 11, 4486.
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33 Risk Classification and Identification for Chemicals Management in Process Design. Journal of Chemical Engineering of Japan, 2013, 46, 488-500.
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Safety, health, and environmental assessment of bioethanol production from sugarcane, corn, and corn stover. Green Processing and Synthesis, 2012, 1, .

Model. Computer Aided Chemical Engineering, 2012, 31, 285-289.
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Transition pathway of consumer perception toward a sharing economy: Analysis of consumption
37 value for behavioral transition to laundromats. Sustainable Production and Consumption, 2021, 28,
11.0 1708-1723.

Structural Framework Supporting Selection of Extraction Processes under Sustainable Criteria. Journal of Chemical Engineering of Japan, 2010, 43, 186-195.

43 | Impact of local conditions on bioâ€based chemical process design: selection of input feedstock and |
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| $47 \quad$A Prototype Method for Selecting Interventions for Enhancing Medication Adherence in Medicine <br> Taking Processes. Journal of Chemical Engineering of Japan, 2021, 54, 152-161. |  |
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| $48 \quad$Multiobjective Retrofitting Methodology for Manufacturing Processes of Active Pharmaceutical <br> Ingredients Considering Environment, Health and Safety Risks. Computer Aided Chemical Engineering, <br> 2016, 38, 79-84. |  |
| 49 | Design Support for VOC Control in SMEs by Simulation-Based Life-Cycle Engineering Part 1: <br> Framework. Journal of Chemical Engineering of Japan, 2016, 49, 776-784. |

Development of Environmental Information Provision Approaches for Enhancing Consumersấ $\mathrm{T}^{\mathrm{T}}$ Life
Cycle Thinking Skills: Based on Scenario Analysis between Disposable and Reusable Shopping Bags.
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Towards Ensuring Sustainable Consumption and Production Patterns. Journal of Life Cycle Assessment Japan, 2019, 15, 135-135.
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Recycling System Design that incorporates Robustness and Flexibility against Variation Risk. Journal of the Japan Society of Material Cycles and Waste Management, 2015, 26, 1-15.

Introduction: Special Issue on â€œContributions from the 2nd Annual Meeting of The Institute of Life Cycle Assessment, Japanâ€: Journal of Life Cycle Assessment Japan, 2007, 3, 207-207.

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Conference Report on the Second Meeting of The Institute of Life Cycle Assessment, Japan. Journal of Life Cycle Assessment Japan, 2007, 3, 184-186.

