



CURRICULUM VITAE

2nd of March 2023

Dr. Lukas Messmann, born 30 Dec 1991 in Neuwied, Germany

Private:

+49 (0) 172 6436840
lukas.messmann@gmail.com
Oskar-von-Miller-Str. 60
86199 Augsburg, Germany

German/Swiss citizenship

Professional:

+49 (0) 821 598-3946
lukas.messmann@uni-a.de
Center for Climate Resilience,
University of Augsburg
Universitaetsstr. 12
86159 Augsburg, Germany

Main research areas

Life Cycle Sustainability Assessment: Life Cycle Assessments (LCA) or Social Life Cycle Assessments (S-LCA) of value chains for second-generation bioethanol, hospitals/healthcare, bio-based polymers, agricultural products, and waste electrical and electronic equipment. True Cost Accounting (TCA) of food products.

Operations Research: In particular, mixed-integer linear programming for the strategic design of sustainable and/or resilient supply networks. Operationalization of LCA and S-LCA results for use in optimization models.

Work positions

since 07/2022	Senior researcher & lecturer / project management (Postdoctoral fellow)
<i>Groups</i>	Center for Climate Resilience, University of Augsburg Resource Lab / Chair for Production & Supply Chain Management (Prof. Tuma)
<i>Main areas</i>	Healthcare sustainability (funded project), climate-resilient supply chain optimization
04/2017 – 06/2022	Researcher & lecturer (PhD student)
<i>Group</i>	Resource Lab / Chair for Production & Supply Chain Management (Prof. Tuma)
<i>Main areas</i>	Life Cycle Sustainability Assessment, sustainable supply chain optimization
06/2016 – 08/2016	Intern in the program management office “PowerON” KUKA AG, Augsburg
03/2016 – 05/2016	Intern in the problem management office for vehicle testing In-tech GmbH, Munich/Garching
05/2013 – 02/2016 & 10/2016 – 04/2017	Student research & teaching assistant Chair for Production & Supply Chain Management (Prof. Tuma)

Academic qualification & development

04/2017 – 06/2022	PhD (Dr. rer. pol.), University of Augsburg
<i>Dissertation</i>	“Strategic Design of Environmentally and Socially Sustainable Supply Networks”
<i>Supervisors</i>	Prof. Axel Tuma, Prof. Robert Klein, Prof. Marco Meier
<i>Grade</i>	summa cum laude (0.0)
10/2014 – 04/2017	Industrial Engineering, M.Sc. , University of Augsburg
<i>Grade</i>	1.73
<i>Master’s thesis</i>	“A multi-criteria assessment of a European product recovery network for WEEE considering economic and environmental aspects” (1.0)
09/2011 – 09/2014	Industrial Engineering, B.Sc. , University of Augsburg
<i>Grade</i>	1.91
<i>Bachelor’s thesis</i>	“Application of System Dynamics for analyzing closed-loop supply chains” (1.0)
05/2011 – 08/2011	Stay abroad in Vancouver, British Columbia, Canada
08/2002 – 03/2011	University entrance qualification (<i>Abitur</i>), Werner-Heisenberg-Gymnasium Neuwied
<i>Grade</i>	1.80

Certificates, languages, and memberships

Academic teaching	Certificate for Teaching in Higher Education of the Bavarian Universities	
Professional software	SimaPro (databases: i.a. ecoinvent, SHDB, AgriFootprint, AGRIBALYSE) IBM ILOG CPLEX Optimization Studio	
ERP systems	SAP Certified Associate – Business Process Integration with SAP ERP 6.0	
Languages	German	native tongue
	English	fluent
	Swedish	B1+
	French	B2
	Japanese	A1+
	(Latin)	qualifications (<i>Latinum</i>)
Memberships	ISIE	International Society for Industrial Ecology
	DJG	German–Japanese Society

Academic and administrative tasks

➤ **Publications, conference talks, third-party funded projects, and teaching** summarized on the next pages

Since 2022: Guidance and scientific supervision of doctoral students

Recruiting, guidance, and evaluation of student research assistants

Assessor in selection interviews for the master's program in Business Administration

Extramural academic activities

Co-proposal for a special session on “Transition towards sustainable agri-food-systems: can financial incentives steer dietary behavior?” at the ISIE2023 conference in Leiden, Netherlands, 2023 (currently under review)

Proposal, organization, and chairing of a special session on “Climate Resilience in Supply Chain Planning” at the EURO2022 conference in Espoo, Finland, 2022

Peer-reviewing for the Journal of Cleaner Production, the International Journal of Production Economics, and the Journal of Applied Energy

References

Prof. Axel Tuma

Institution Chair for Production & Supply Chain Management / Center for Climate Resilience
University of Augsburg, Germany
Address Universitaetsstr. 16, 86159 Augsburg, Germany
E-mail axel.tuma@wiwi.uni-augsburg.de
Phone number +49 (0) 821 598-4357

Prof. Christoph Helbig

Institution Chair of Ecological Resources Technology,
University of Bayreuth, Germany
Address Universitaetsstr. 30, 95447 Bayreuth, Germany
E-mail christoph.helbig@uni-bayreuth.de
Phone number +49 (0) 921 55-7540

LIST OF PUBLICATIONS & PRESENTATIONS

Cumulative dissertation

Messmann, L. (2022): *Strategic Design of Environmentally and Socially Sustainable Supply Networks*. University of Augsburg. <https://opus.bibliothek.uni-augsburg.de/opus4/97066>

Peer-reviewed journal articles

Messmann, L.; Wietschel, L.; Thorenz, A.; Tuma, A. (2022): *Assessing the social dimension in strategic network optimization for a sustainable development: the case of bioethanol production in the EU*. Journal of Industrial Ecology. doi.org/10.1111/jiec.13324

Wietschel, L.; **Messmann, L.**; Thorenz, A.; Tuma, A. (2021): *Environmental benefits of large-scale second-generation bioethanol production in the EU: An integrated supply chain network optimization and life cycle assessment approach*. Journal of Industrial Ecology. doi.org/10.1111/jiec.13083

Messmann, L.; Zender, V.; Thorenz, A.; Tuma, A. (2020): *How to quantify social impacts in strategic supply chain optimization: state of the art*. Journal of Cleaner Production 257, 120459. doi.org/10.1016/j.jclepro.2020.120459

Messmann, L.; Helbig, C.; Thorenz, A.; Tuma, A. (2019): *Economic and environmental benefits of recovery networks for WEEE in Europe*. Journal of Cleaner Production 222, 655-668. doi.org/10.1016/j.jclepro.2019.02.244

Messmann, L.; Boldoczki, S.; Thorenz, A.; Tuma, A. (2019): *Potentials of preparation for reuse: a case study at collection points in the German state of Bavaria*. Journal of Cleaner Production 211, 1534-1546. doi.org/10.1016/j.jclepro.2018.11.264

Article under minor revision

Michalke, A.; Köhler, S.; **Messmann, L.**; Thorenz, A.; Tuma, A.; Gaugler, T.: *True Cost Accounting of organic and conventional food production*. Under minor revision for publication at the Journal of Cleaner Production.

Other outlets

(under review) Schmid, C.; **Messmann, L.**; Michalke, A.; Wieck, C.; Feuerbacher, A.: *Internalizing the true costs into food prices to steer towards a more sustainable food consumption: Modelling the effects of internalizing the true costs of food for the case of Germany*. Conference paper for the EAAE and EAERE conferences 2023.

Tuma, A.; **Messmann, L.** (2018): *Integration ökologischer Parameter in das Reverse Network Design*. Irina Dovbischuk, Guido Siestrup, and Axel Tuma: „Nachhaltige Impulse für Produktion und Logistikmanagement: Festschrift zum 60. Geburtstag von Prof. Dr. Hans-Dietrich Haasis“, 189-203. doi.org/10.1007/978-3-658-21412-8_16 (commemorative publication)

Work-in-progress journal articles

Bruckler, M.; Wietschel, L.; **Messmann, L.**; Thorenz, A.; Tuma, A.: *Review of resilience metrics for the assessment of resilience capacities in supply chains and other systems* (working title).

Bruckler, M.; Wietschel, L.; **Messmann, L.**; Thorenz, A.; Tuma, A.: *Climate Resilience and Sustainability: An LCA-based Stochastic Programming Approach for 2G Bioethanol Production in the EU* (working title).

Assies, F.; **Messmann, L.**; Thorenz, A.; Tuma, A.: *Life Cycle Sustainability Assessment (LCSA) of substituting fossil-based with biogenic products under different conditions – a case study on two product systems in the region of Augsburg, Germany* (working title).

Fieber, R.; **Messmann, L.**; Antimisaris, K.; Köhler, S.; Thorenz, A.; Tuma, A.: *Hospital sustainability indicators – a systematic literature review and framework* (working title).

Schmid, C.; **Messmann, L.**; Michalke, A.; Wieck, C.; Feuerbacher, A.: *Internalizing the true costs into food prices to steer towards a more sustainable food consumption: Modelling the effects of internalizing the true costs of food for the case of Germany* (working title).

Messmann, L.; Cimprich, A.; Young, S.; Antimisaris, K.; Köhler, S.; Linné, R.; Thorenz, A.: *Organizational LCA of a university hospital in Bavaria, Germany* (working title).

Oral presentations at conferences & workshops

- (submitted abstract) Bruckler, M.; Wietschel, L.; **Messmann, L.**; Thorenz, A.; Tuma, A.: *Between Climate Resilience and Sustainability: An LCA-based Stochastic Linear Programming Approach for Second-Generation Bioethanol Production in the EU*. 11th International Conference on Life Cycle Management (LCM 2023), Lille, France, 2023.
- (submitted abstract) Schmid, C.; **Messmann, L.**; Michalke, A.; Wieck, C.; Feuerbacher, A.: *Internalizing the environmental costs of food products: Effects on price-demand equilibria and environmental impacts*. Joint 5th SCORAI, 21st ERSCP, and Wageningen University conference (SCORAI-ERSCP-WUR 2023), Wageningen, Netherlands, 2023.
- (submitted abstract) **Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Assessing the Social Dimension in Strategic Network Design: The Case of Bioethanol Production in the EU*. 11th International Conference on Industrial Ecology (ISIE 2023), Leiden, Netherlands, 2023.
- (submitted abstract) Schmid, C.; **Messmann, L.**; Michalke, A.; Wieck, C.; Feuerbacher, A.: *Internalizing the environmental costs of food products: Effects on price-demand equilibria and environmental impacts*. 11th International Conference on Industrial Ecology (ISIE 2023), Leiden, Netherlands, 2023.
- Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Assessing the Social Dimension in Strategic Network Design: The Case of Bioethanol Production in the EU*. 15th Biennial International Conference on EcoBalance (EcoBalance 2022), Fukuoka, Japan, 2022. (online participation)
- Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Assessing the Social Dimension in Strategic Network Design: The Case of Bioethanol Production in the EU*. 8th International Conference of Social Life Cycle Assessment (S-LCA 2022), Aachen, Germany, 2022.
- Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Assessing the Social Dimension in Strategic Network Design: The Case of Bioethanol Production in the EU*. 32nd European Conference on Operational Research (EURO 2022), Espoo, Finland, 2022.
- Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Assessing the Social Dimension in Strategic Network Design: The Case of Bioethanol Production in the EU*. 3rd Life Cycle Innovation Conference (LCIC 2022), Berlin, Germany, 2022.
- Wietschel, L.; **Messmann, L.**; Thorenz, A.; Tuma, A.: *Environmental benefits of large-scale second-generation bioethanol production in the EU: An integrated supply network optimization and Life Cycle Assessment approach*. Graduate Program in Operations Management (GPOM), 2020. (online event)
- Messmann, L.**; Wietschel, L.; Thorenz, A.; Tuma, A.: *Social objective functions in optimization models for sustainable supply network design*. 7th International Conference on Social Life Cycle Assessment (S-LCA 2022), Gothenburg, Sweden, 2020 (online event), June 14-17, 2020.
- Messmann, L.**; Zender, V.; Thorenz, A.; Tuma, A.: *Quantifying Social Sustainability in OR Models for Supply Network Design*. 10th International Conference on Industrial Ecology (ISIE 2019), Beijing, People's Republic of China, 2019.
- Messmann, L.**; Zender, V.; Thorenz, A.; Tuma, A.: *Quantifying Social Sustainability in OR Models for Supply Network Design*. 30th European Conference on Operational Research (EURO 2019), Dublin, Ireland, 2019.
- Messmann, L.**; Helbig, C.; Thorenz, A.; Tuma, A.: *Economic and environmental opportunity costs of regional development in WEEE reverse network design*. 13th Biennial International Conference on EcoBalance, Tokyo, Japan, 2018.
- Messmann, L.**; Thorenz, A.; Tuma, A.: *Integrating environmental parameters into Reverse Network Design: European collection and recovery network for WEEE*. OR im Umweltschutz, Ulm, Germany, 2018.
- Messmann, L.**; Hutner, P.; Stindt, D.; Thorenz, A.; Tuma, A.: *Evaluation of economic and environmental aspects in a European WEEE recovery network: an LCA-based approach*. 18th European Roundtable for Sustainable Consumption and Production (ERSCP 2017), Skiathos, Greece, 2017.
- Hutner, P.; Dirr, M.; **Messmann, L.**; Boldoczki, S.; Thorenz, A.; Tuma, A.: *Preparing for Re-Use: Assessment and quantification of potentials for WEEE, textiles and bulky waste*. 18th European Roundtable for Sustainable Consumption and Production (ERSCP 2017), Skiathos, Greece, 2017.

Invited keynote

- (event canceled) **Messmann, L.**; Wietschel, L.: *Ökologische und ökonomische Optimierung biobasierter Produktionsnetzwerke am Beispiel von Bioethanol zweiter Generation in der EU*. Congress BIO-raffiniert XII, Oberhausen, Germany, 2023 (canceled)

PROJECTS & COOPERATIONS

Contributions to acquisition & execution of third-party funded projects

2019 – 2022	reGIOcycle – Prevention, substitution, and sustainable circular economy of plastics in urban-rural contexts, exemplary for the region of Augsburg
<i>Original title</i>	<i>reGIOcycle – Vermeidung, Substitution und nachhaltige Kreislaufwirtschaft von Kunststoffen im Stadt-Land-Kontext am Beispiel der Region Augsburg</i>
<i>Funding organization</i>	German Federal Ministry of Education and Research (BMBF)
<i>Duration</i>	02/2020 – 01/2025 (60 months)
<i>Volume</i>	2,751,505 EUR
<i>Partners</i>	Cluster of Environmental Technologies Bavaria (Umweltcluster Bayern e.V.) University of Augsburg, Resource Lab (Dr. Thorenz) Univ. of Augsburg, Chair for Production & Supply Chain Management (Prof. Tuma) University of Stuttgart, Institut für Kunststofftechnik (IKT) German Institute of Urban Affairs (Deutsches Institut für Urbanistik gGmbH, Difu) Fraunhofer Research Institute for Materials Recycling and Resource Strategies IWKS Abfallwirtschafts- und Stadtreinigungsbetrieb der Stadt Augsburg (aws) Landpack GmbH TECNARO GmbH
<i>Own function</i>	Participation in writing of the project proposal by the project consortium Collaboration with the project partners at all planning meetings Coordination and realization of work packages Guidance of supporting student assistants

Contributions to the execution of third-party funded projects

<u>since 2022</u>	Development and evaluation of holistic, indicator-based sustainability tools in acute inpatient health care
<i>Original title</i>	<i>Entwicklung und Evaluierung von ganzheitlichen, indikatorbasierten Nachhaltigkeitsinstrumenten in der akutstationären Gesundheitsversorgung</i>
<i>Funding organization</i>	Bavarian State Ministry for Health and Care (StMGP)
<i>Duration</i>	07/2022 – 06/2025 (36 months)
<i>Volume</i>	1,798,424 EUR
<i>Partners</i>	University of Augsburg, Center for Climate Resilience (Dr. Heuson) University of Augsburg, Resource Lab (Dr. Thorenz) Univ. of Augsburg, Chair for Production & Supply Chain Management (Prof. Tuma) University of Augsburg, Chair for Health Care Operations (Prof. Brunner) University of Augsburg, Chair for Media Effects and Processes (Prof. Bilandzic) University of Augsburg, Professorship for Resilient Operations (Prof. Ostermeier) Univ. of Augsburg, Chair f. Innovation and Sustainable Management (Prof. Wagner)
<i>Own function</i>	Independent management and realization of several work packages in accordance with the project's schedule and requirements Scientific and project-related guidance of involved PhD students and assistants Coordination of interdisciplinary research with participating project partners as well as cooperating institutions (esp. University Hospital Augsburg)

2019 REHAP – Systemic approach to reduce energy demand and CO2 emissions of processes that transform agroforestry waste into high added value products

Funding organization EU Horizon 2020 Research and Innovation program
Duration 10/2016 – 03/2021 (54 months)
Volume 8,297,020 EUR
Partners Fundacion Tecnalia Research & Innovation, Bilbao, Spain
University of Augsburg, Resource Lab (Dr. Thorenz)
Univ. of Augsburg, Chair for Production & Supply Chain Management (Prof. Tuma)
+14 more industry and research partners
Own function Contribution to work packages WP1.3 and WP1.5 (network planning)
Valorization of data & results in a publication (doi.org/10.1111/jiec.13083)

2017 – 2018 Potential assessment of selected waste streams for preparation for reuse

Original title *Potentialabschätzung ausgewählter Abfallströme für die Vorbereitung zur Wiederverwendung*
Funding organization Bavarian State Ministry for the Environment and Consumer Protection (StMUV)
Duration 11/2015 – 09/2020 (59 months)
Volume 218,211 EUR
Partners University of Augsburg, Resource Lab (Dr. Thorenz)
Univ. of Augsburg, Chair for Production & Supply Chain Management (Prof. Tuma)
University of Augsburg, Chair for Resource Strategy (Prof. Reller)
Own function Quantitative evaluation of empirically collected data to determine reuse potentials at Bavarian waste collection centers
Successful publication of the results (doi.org/10.1016/j.jclepro.2018.11.264)

Research cooperations

University of Augsburg, Germany

Prof. Axel Tuma Production & Supply Chain Management / Center for Climate Resilience
Dr. Andrea Thorenz Resource Lab, Materials Resource Management / Center for Climate Resilience

University of Bayreuth, Germany

Prof. Christoph Helbig Chair of Ecological Resources Technology

University of Greifswald, Germany

Dr. Amelie Michalke Sustainable transformation of food systems and diets

University of Hohenheim, Germany

Prof. Arndt Feuerbacher Group for Economic-environmental policy modeling
Carlo Schmid Group for Agrarian and nutritional policy

University of Waterloo, Canada

Prof. Steven Young Industrial Ecology Group at School of Environment, Enterprise and Development
Dr. Alex Cimprich

Instituto Superior Técnico, University of Lisbon, Portugal

Prof. Bruna Mota Operations and Logistics, Systems Engineering and Management department

University Hospital Augsburg, Germany

Dr. Renate Linné Deputy Commercial Director

TEACHING EXPERIENCE

Courses taught

ST = summer term, WT = winter term

Resource Efficiency & Resilience

<i>Course type & level</i>	Lecture series (master's level)
<i>Own function</i>	Conceptualization, creation, and lecturing of lecture units; design and evaluation of written exam questions
<i>Semesters</i>	ST21, ST22

Industrial Ecology

<i>Course type & level</i>	Lecture & exercises (master's level)
<i>Own function</i>	Conceptualization and creation of lecture units

Sustainable Resource & Environmental Management / Sustainable Operations

<i>Course type & level</i>	Lecture & exercises (bachelor's level)
<i>Own function</i>	Conceptualization and creation of lecture units; lecturing of exercise units; design and evaluation of written exam questions
<i>Semesters</i>	ST19, ST20, ST21, ST22

Introduction to Business Administration

<i>Course type & level</i>	Lecture series & exercises (bachelor's level)
<i>Own function</i>	Conceptualization, creation, and lecturing of lecture and exercise units (since 2017); overall planning and coordination between five participating professorial chairs in the complete redesign of the lecture series (since WT21/22); design and evaluation of written exam questions
<i>Semesters</i>	WT17/18, WT18/19, WT19/20, WT20/21, WT21/22, WT22/23

Practical Applications of Optimization – Basic

and **Production and Logistics Management with IBM ILOG CPLEX – Advanced**

<i>Course type & level</i>	Seminars (bachelor's and master's level, respectively)
<i>Own function</i>	Organization and lecturing; creation of didactical slides; supervision of seminar groups; evaluation of oral presentations
<i>Semesters</i>	ST17, WT17/18, ST18, WT18/19, ST19, WT19/20, ST20, WT20/21, ST21, WT21/22, WT22/23

Computer seminar on ERP systems – SAP TERP10 (until WT20/21) and TS410 (from ST21)

<i>Course type & level</i>	Seminar (both bachelor's and master's level)
<i>Own function</i>	Lecturing (plan-to-produce, project system); evaluation of oral presentations
<i>Semesters</i>	WT17/18, ST18, WT18/19, ST19, WT19/20, ST20, WT20/21, ST21, WT21/22

Scientific guidance & co-supervision of PhD theses

since 10/22 Substitution and Circular Economy of polymers (*working title*)

since 07/22 Sustainability in in acute inpatient health care (*working title*)

since 07/22 Design of resilient supply chains (*working title*)

Supervision & evaluation of master's and bachelor's theses

M = master's level, B = bachelor's level, ST = summer term, WT = winter term

IndEng = Industrial Engineering, BA = Business Administration, GBM = Global Business Management

Level	Semester	Field	Topic
M	WT22/23	IndEng	Umweltauswirkungen einer Kantine: Stand der Forschung und ökobilanzielle Betrachtung
M	ST22	IndEng	Green Hospitals: Development of a framework to determine the sustainability of hospitals
M	ST22	IndEng	Social Life Cycle Assessment von Substitutions- und Referenzprodukten zweier Produktsysteme
M	ST22	IndEng	Life Cycle Sustainability Assessment zweier Bio-Kunststoffbecher
M	WT21/22	BA	GIS-gestützte Entwicklung eines Indikators zur Integration von Landnutzungskriterien in die strategische Supply-Chain-Planung
M	WT21/22	IndEng	Measuring spatial access to recovery networks for WEEE: the Bavarian case (<i>discontinued</i>)
M	WT21/22	IndEng	Ökobilanzielle Bewertung der Herstellung von biobasierten Carbonfasern aus Mikroalgen (Cradle-to-Gate-Analyse)
M	ST21	IndEng	The Role of Different Transport Modes in Finding Sustainable Trade-Offs in North American Supply Networks: The Case of Henkel Adhesives Technologies North America
M	ST21	IndEng	Multikriterielle Einkaufskorboptimierung von Nahrungsmitteln unter Berücksichtigung von Nährstoffanforderungen, Konsumgewohnheiten und Einkommensmilieus
M	ST21	IndEng	Analyse der ökologischen, ökonomischen und sozialen Auswirkungen von konventionellen und strohbasierten Verpackungen
M	ST21	IndEng	Ökologischer, ökonomischer und sozialer Vergleich biobasierter Kunststoffbecher mit verschiedenen Referenzprodukten
M	ST20	IndEng	Vergleich zwischen Elektromobilität und Verbrennungsmotor und State of the Art der Ökobilanzierung von Lithium-Ionen-Akkumulatoren
M	ST20	IndEng	Brennstoffzelle im Straßenverkehr: Kritikalität und ökologische Implikationen im Vergleich
M	WT19/20	IndEng	Simulation and optimization of EEE stocks and flows: Methodological comparison and environmental implications
M	ST19	BA	Integration sozialer Parameter in das Reverse Network Design – Übertragung des State of the Art in ein generisches Optimierungsmodell
M	WT18/19	BA	An Empirical Investigation of Remanufacturing Announcements on the Firm-specific Risk
M	WT18/19	IndEng	Development of a multi-criteria model for lead time and cost optimization –Sales and Operations Planning at KUKA AG
M	ST18	BA	Optimierung der Liefer- und Lagerstrukturen internationaler Warenströme für Ersatzteile
M	WT17/18	IndEng	Operations Research im nachhaltigen Reverse Network Design: Evaluation quantitativer Methoden der multikriteriellen Optimierung
M	ST17	BA	Modellierung eines Rücknahmesystems für Althandys im Bundesland Bayern zur Reduktion des Ressourcenverbrauchs
B	WT22/23	IndEng	State of the art in mapping LCSA indicators to the SDGs
B	ST22	IndEng	Sachbilanz und Wirkungsabschätzung von biobasiertem Polyethylen sowie Vergleich mit konventionellem Polyethylen
B	WT21/22	IndEng	Bestimmung technologieabhängiger Transportkostensätze für den Wasserstofftransport unter Berücksichtigung variabler und fixer Kostenanteile
B	ST21	IndEng	Bioraffinerien in Deutschland – Übersicht, Stoffströme sowie Analyse und Bewertung von Standortfaktoren
B	WT20/21	IndEng	Von Cradle-to-farmgate zu Cradle-to-gate: ökonomische und ökologische Bewertung der Weiterverarbeitung ausgewählter Lebensmittel
B	ST20	IndEng	Ökologische Auswirkungen von Lithium-Ionen-Batterien: State of the Art
B	ST20	IndEng	Multikriterielle Einkaufskorboptimierung unter Berücksichtigung monetarisierter Umweltauswirkungen
B	WT19/20	GBM	How to Determine Density-Specific Transport Costs and Emissions
B	WT19/20	IndEng	Bewertung der sozialen Nachhaltigkeit generischer Supply-Chain-Konfigurationen mithilfe quantitativer Indikatoren
B	ST19	IndEng	Ökologische Potentiale verschiedener Elektroaltgeräte
B	ST19	IndEng	Analyse der Supply Chain für Sekundärrohstoffe am Beispiel von WEEE – Klassifikationen, Indikatoren und Herausforderungen
B	WT18/19	IndEng	Digitalisierung in der Logistik: Muster und Forschungslücken im Bereich Supply Chain Management, insbesondere im Hinblick auf den Einfluss von Digitalisierungstechnologien
B	ST18	BA	Übersicht über Anwendungsfälle des nachhaltigen Reverse Network Designs
B	ST18	GBM	Supply Chain Risk Management am Beispiel der Luftfahrt- und Metallindustrie und dessen systematische Umsetzung im Unternehmen
B	ST18	IndEng	Soziale Indikatoren im Kontext des Network Designs: State of the Art
B	ST18	IndEng	Ökologische Potentiale des Recyclings von Leiterplatten
B	ST17	IndEng	Anwendung von System Dynamics auf Probleme des Closed-Loop Supply Chain Managements – Stand der Forschung