PERSONAL INFORMATION

Andreas Georg Gronauer

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Andreas.gronauer@unibz.it

Sex male | *Date of birth* | *Nationality* german

Enterprise	University	EPR
☐ Management Level	☒ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

Evaluation and optimization of sensors in crop production:
1. Influence of Selected Modeling Parameters on Plant Segmentation Quality Using Decision Tree Classifiers.
2. Spectral-Based Classification of Plant Species Groups and Functional Plant Parts in Managed Permanent Grassland.
3. Hyperspectral-Based Classification of Managed Permanent Grassland with Multilayer Perceptrons: Influence of Spectral Band Count and Spectral Regions on Model Performance.
4. Evaluation of RGB-D Image Dataset for Semantic Segmentation in Agriculture.
5. Quantitative mixed model analysis and principal component analysis of yield and yield components in facultative wheat affected by environment, sowing date and nitrogen fertilization.

Renewable resources:
1. Utilization of Food and Agricultural Residues for a Flexible Biogas Production: Process Stability and Effects on Needed Biogas Storage Capacities.
2. Biogas Production from Steam-Exploded Maize Stover: Results from Continuous Anaerobic Tank Bioreactor Tests.
3. Environmental life cycle assessment of yellow mealworm (Tenebrio molitor) production for human consumption in Austria - a comparison of mealworm and broiler as protein source

Digitalization and robotics:
1. Development of a mobile, autonomous robot platform for crop cultivation applications
2. Development and validation of a load-dependent position correction of a hay crane.
3. Validation of an object localisation algorithm for modelling and detection of round bales
4. Localisation and navigation of a robot platform using laser scanner and Adaptive Monte Carlo Localisation (AMCL) for an indoor horticultural application

Evaluation of technological systems by LCA:
1. Combining LCA and the soil model DNDC to assess the environmental impacts of catch crops.
2. Life Cycle Assessment of Biogas Production from Unused Grassland Biomass Pretreated by Steam Explosion Using a System Expansion Method.
3. Comparison of a system expansion and allocation approach for the handling of multi-output processes in life cycle assessment
4. Environmental life cycle assessment of yellow mealworm (Tenebrio molitor) production for human consumption in Austria - a comparison of mealworm and broiler as protein source.
5. Modelling soil emissions and precision agriculture in fertilization life cycle assessment-A case study of wheat production in Austria.
6. Environmental life cycle assessment of nano-cellulose and biogasproduction from manure.

Replace with dates (from - to)

Replace with occupation or position held

Replace with employer's name and locality (if relevant, full address and website)

▪ Replace with main activities and responsibilities

Postgraduate supervision 2019 - 2025 (PhD level):

- Roland Martin Britz (2022) Spectral Remote Sensing to Analyze the Botanical Composition of Permanent Grassland Stands. Dissertation - Institut für Landtechnik, BOKU-Universität für

Bodenkultur, pp 107. UB BOKU obvsg
- Thomas Holzfeind (2020): Timber Extraction with Winch-Assisted Forwarders — Economic, Safety and Ecological Aspects., Dissertation - Institut für Forsttechnik (FT), BOKU-Universität für Bodenkultur, pp 81. UB BOKU obvsg
- Armin Haberl (2020): Verjüngung von Gebirgswäldern mit schlitzartigen Eingriffen - Evaluierung der Holznutzung mit Mastseilgeräten., Dissertation - Institut für Forsttechnik (FT), BOKU-Universität für Bodenkultur, pp 100. UB BOKU obvsg FullText
- Franz Theuretzbacher (2020): UTILIZATION OF LIGNOCELLULOSIC FIELD RESIDUES FROM AGRICULTURE FOR ENERGY GENERATION – IMPROVEMENT OF BIOLOGICAL CONVERSION THROUGH STEAM EXPLOSION PRETREATMENT. Dissertation - Institut für Landtechnik, BOKU-Universität für Bodenkultur, pp 72. UB BOKU obvsg FullText
- Florian Kitzler (s2023) Potential of RGB-D semantic segmentation on intelligent weed control, Dissertation - Institut für Landtechnik, BOKU-Universität für Bodenkultur
- Francisco Medel (2024) Assessing Potential Environmental Impacts of Precision Agriculture Technologies by Life Cycle Assessment, (LCA) and the DeNitrification-DeComposition (DNDC) Biogeochemical Process-based Soil Model, Dissertation - Institut für Landtechnik, BOKU-Universität für Bodenkultur• Postgraduate supervision 2019 - 2024 (PhD level):
- Theresa Krexner (2025) Life cycle assessment (LCA) of innovative agricultural systems with a focus on multi-output processes, Dissertation - Institut für Landtechnik, BOKU-Universität für Bodenkultur

Other academic responsibilities/memberships:
• internal appointments to faculty and university boards:
- Supervisor of the study program „Biomass technology 2014 - 2023.
- Member of Study commission „Agricultural Science; Member of the study commission of the senate; representative for cooperation with TU-Munich;
- Member of the steering board “Center for Agricultural Science” (BOKUCAS)

• external appointments at national and international level:
- Club of Bologna (Full member; https://www.clubofbologna.org/en/)
- German Association of Informatics in agriculture - GIL (Full member https://gil-net.de/),
- German Association of Engineers - “Max-Eyth-Society - VDI-MEG (Full member, https://www.vdi.de/tg-fachgesellschaften/max-eyth-gesellschaftagrartechnik), MEG „FA Lehre und Forschung“ and MEG „FA Geschichte der Agrartechnik“ (full member),
- American Society of Agricultural and Biosystem Engineers – ASABE (Full member https://www.asabe.org/),
- German Trustees of Technology and Civil Engineering in Agriculture – KTBL (Full member https://www.ktbl.de/),
- Austrian Trustees of Agriculture – ÖKL (Full member of scientific board, https://oekl.at/),
- Austrian Agriculture Cluster – AAC (Full member of management board, http://www.aac.or.at/).

• responsibilities for organizing conferences/seminars/exhibitions (place, duration, institute)
- head of the scientific and organization board of the international conference on biogas technology 2009 – 2022 (http://www.biogasscience.com/)

• scientific committees:
- Member of the International Scientific Committee of the Symposium "Actual Tasks on Agricultural Engineering" (Full member; https://atae.agr.hr/index.htm)
- Member of the scientific Board of the Central European Biomass, Conferences CEBC (2014, 2017, 2020, 2023)

Editorial Board:
- Agriculture (ISSN 2077-0472 (www.mdpi.com/journal/agriculture)

EDUCATION AND TRAINING

A. Gronauer: Course Involvement (2019 - 2023) at the University of Natural Resources and Life Sciences (BOKU)

semester	W/S	titel	hours per week and semester	kind of course *		subject area **	academic level ***	teachers	language	Percentage of A.Gronauer	ECTS of A.Gronauer	SWS of A.Gronauer
Wintersemester			**SWS**		**ECTS**							
931006	W+S	Dissertationsvertiefungsseminar	2	SE	4	All	PhD	Bauer A, **Gronauer A,** Kral I, Pajakovic V, Quendler E	Deutsch/English	20%	0,8	0,4
930100	W	Einführung in die Agrarwissenschaften	2	VO	2	Ag	u.g.	Knaus W, **Gronauer A,** Kaul H, Kühleitner M, Leisch F, Mayer H, Nowak W, Puschenreiter M, Schönhart M, Staudacher E, Steinkellner S, Strauss J, Zollitsch W	Deutsch	5%	0,1	0,1
930300	W	Masterseminar	2	SE	2	Ag, Fo, UB, En, Of	p.g.	Barta N, Bauer A, Freyer B, Friedel J, Fürst-Waltl B, **Gronauer A,** Hintze S, Knaus W, Leeb C, Meszaros G, Piringer G, Quendler E, Schunko C, Sölkner J, Vogl C, Winckler C, Wurzinger M, Zollitsch W	Deutsch	5%	0,1	0,1
930400	W	Dissertantenseminar	2	SE	2	All	PhD	Freyer B, Friedel J, Fürst-Waltl B, **Gronauer A,** Knaus W, Quendler E, Sölkner J, Vogl C, Winckler C, Wurzinger M, Zollitsch W	Deutsch	10%	0,2	0,2
931103	W	Grundlagen der Landtechnik	2	VO	3	Ag	u.g.	**Gronauer A** , Motsch V, Bauer A, Quendler E, Pejakovic V	Deutsch	60%	1,8	1,2
931107	W	Energie aus Rohstoffen der Land- und Forstwirtschaft	3	VO	3	Ag, UB	u.g.	Bauer A, **Gronauer A**, Kral I, Pfeifer C, Pröll T, Stampfer K	Deutsch	20%	0,6	0,6
931301	W	Grünlandmechanisierung	2	VO	3	Ag	p.g.	**Gronauer A,** Handler F, Pöllinger A	Deutsch	30%	0,9	0,6
931302	W	Klimatechnik	2	VO	3	Ag, Of	p.g.	**Gronauer A,** Motsch V	Deutsch	60%	1,8	1,2
931305	W	Post-harvest technology (in Eng.)	2	VO	3	Ag, En	p.g.	Motsch V, **Gronauer A**	Englisch	40%	1,2	0,8
931307	W	Technologiefolgenabschätzung für die Landwirtschaft	2	VS	3	Ag, Of	p.g.	Kral I, **Gronauer A**	Deutsch	30%	0,9	0,6
931315	W	Post-harvest technology (in Eng.)	1,5	VX	2	Ag, En	p.g.	Motsch V, **Gronauer A**	Englisch	40%	0,8	0,6
931317	W	Biogastechnologie	2	VU	3	Ag, En,	p.g.	Bauer A, **Gronauer A**	Deutsch	30%	0,9	0,6
931318	W	Technik der Biomasse und Wirtschaftsdüngernutzung	2	VU	3	Ag, En, Of	p.g.	**Gronauer A**	Deutsch	100%	3	2
931321	W	Technik im Biolandbau	1	SX	1,5	Of	p.g.	Motsch V, Bauer A, Britz R, **Gronauer A**	Deutsch	15%	0,225	0,15
931322	W	Technology in organic agriculture (in Eng.)	2	VS	3	Of	p.g.	Motsch V, Bauer A, Britz R, **Gronauer A**	Englisch	15%	0,45	0,3
951109	W	Bachelorseminar Pflanzliche Produktion	4	SE	12	Ag	u.g.	Kaul H, Aschauer C, Barta N, Bodner G, Buchgraber K, Bürstmayr H, Eitzinger J, Euteneuer P, Grausgruber H, **Gronauer A,** Kral I, Liebhard P, Mehdi-Schulz B, Neugschwandtner R, Santner J, Steiner B, Steinkellner S, Vollmann J, Wagentristl H, Winter S	Deutsch	3%	0,3	0,1
970308	W	Bioraffinerie und Produkte aus nachwachsenden Rohstoffen	1	VO	2	En	p.g.	Wimmer R, Bauer A, Baumgartner S, Böhmdorfer S, **Gronauer A,** Lettner M, Neureiter M, Pfeifer C, Pröll T, Ribitsch D	Deutsch	5%	0,1	0,05
994402	W	Bio-Resources and Technologies (in Eng.)	2	SE	2	all	p.g.	Bürstmayr H, Fomeck A, **Gronauer A,** Gübitz G, Hansmann C, Irrgeher J, Kaul H, Krska R, Liebner F, Prohaska T, Rosenau T, Schuhmacher R, Steinkellner S, Strauss J, Teischinger A, Wenzel W, Wimmer R	Englisch	5%	0,1	0,1
Sommersemester												
ULG573001	S	Introduction to advanced technologies in smart crop farming (in Eng.)	0,5	VO	0,5	LLL	p.g.	**Gronauer A,** Motsch V, Pejakovic V	Englisch	80%	0,4	0,4
ULG573004	S	On-field machine action (in Eng.).	1	UX	1	LLL	p.g.	**Gronauer A,** Motsch V, Pejakovic V	Englisch	20%	0,2	0,2
915326	S	Life cycle assessment nachwachsender Rohstoffe	3	VU	4	Fo, En, Of	p.g.	**Gronauer A,** Kühmaier M, Piringer G, Stampfer K	Deutsch	10%	0,4	0,3
930300	S	Masterseminar	2	SE	2	All	p.g.	Barta N, Bauer A, Freyer B, Friedel J, Fürst-Waltl B, **Gronauer A,** Hintze S, Knaus W, Leeb C, Meszaros G, Quendler E, Schunko C, Sölkner J, Vogl C, Winckler C, Wurzinger M, Zollitsch W	Deutsch	5%	0,1	0,1
930400	S	Dissertantenseminar	2	SE	2	All	PhD	Freyer B, Friedel J, Fürst-Waltl B, **Gronauer A,** Knaus W, Quendler E, Sölkner J, Vogl C, Winckler C, Wurzinger M, Zollitsch W	Deutsch	10%	0,2	0,2
931000	S	Angewandte Agrartechnik	4	UE	4	Ag	u.g.	Motsch V, **Gronauer A**, Pejakovic V, Wagentristl H	Deutsch	10%	0,4	0,4
931100	S	Verfahrenstechnik Pflanzliche Produktion	2	VO	3	Ag	u.g.	**Gronauer A**, Bauer A, Quendler E	Deutsch	80%	2,4	1,6
931101	S	Verfahrenstechnik Pflanzliche Produktion - Übungen	1	UX	1,5	Ag	u.g.	**Gronauer A** , Hauer G, Pejakovic V.	Deutsch	20%	0,3	0,2
931102	S	Verfahrenstechnik Tierische Produktion	2	VO	3	Ag	u.g.	Bauer A, **Gronauer A**, Aschauer C, Quendler E	Deutsch	15%	0,45	0,3
931107	S	Energie aus Rohstoffen der Land- und Forstwirtschaft	3	VO	3			Bauer A , **Gronauer A,** Kral I, Pfeifer C, Pröll T, Stampfer K	Deutsch	20%	0,6	0,6
931300	S	Agricultural engineering in plant production - seminar (in Eng.)	3	SX	4	Ag, En, Of	p.g.	Bauer A, Motsch V, **Gronauer A**, Pejakovic V, Wagentristl H	Englisch	5%	0,2	0,15
931306	S	Kompostierungstechnik	2	VX	3	Ag, Of	p.g.	**Gronauer A,** Swoboda M,	Deutsch	100%	3	2
931312	S	Mechanization of agriculture in developing countries (in Eng.)	3	VS	4	Ag, Of	p.g.	Barta N, Bauer A, **Gronauer A**	Englisch	10%	0,4	0,3
931314	S	GPS-gestützte Landwirtschaft	2	VX	3	Ag, Of	p.g.	Motsch V., **Gronauer A**, Heine E	Deutsch	5%	0,15	0,1
931319	S	Planungsseminar Tierhaltungssysteme	3	VS	4	Ag, Of	p.g.	Bauer A, **Gronauer A,** Quendler E, Schütz R	Deutsch	5%	0,2	0,15
931323	S	Produktionstechnik im Grünland	0,5	EX	0,5	Ag	p.g.	Pöllinger A, **Gronauer A**		10%	0,05	0,05
931362	S	Production systems and atmospheric pollution (in Eng.)	2	VO	3	Ag, Of,	p.g.	**Gronauer A,** Pejakovic V		100%	3	2
951109	S	Bachelorseminar Pflanzliche Produktion	4	SE	12	Ag	u.g.	Kaul H, Neugschwandtner R, Aschauer C, Barta N, Bodner G, Buchgraber K, Bürstmayr H, Eitzinger J, Euteneuer P, Grausgruber H, **Gronauer A,** Kral I, Liebhard P, Mehdi-Schulz B, Santner J, Steiner B, Steinkellner S, Strauss J, Vollmann J, Wagentristl H, Winter S	Deutsch	3%	0,3	0,1
legend:	*	VO = lecture; VU = lecture + exercise ; VS = lecture + seminar; VX = lecture + excursion ; SE = seminar; SX = seminar + excursion; UE = exercise ; UX = exercise + excursion EX = excursion								sum	27,025	18,85
	**	Ag = agriculture; Fo = forrestry; UB = BioEconomy; En = Environment and natural ressources; Of = organic farming; LLL =Life Long Learning course										
	***	u.g. = under graduate; p.g. = post graduate; PhD = Doctor of Philosophy										

Replace with dates (from - to)

Replace with qualification awarded

Replace with EQF (or other) level if relevant

From / to	Job title	Name of academic Institution	Academic level	responsibilities
1988/1992	PhD-student	Institute of agricultural Engineering, Technical University Munich	Dipl.-Ing. agr.	Research, project acquisition, first experience in teaching
1992/2002	Post doc	Technical University Munich, Institute of agricultural Engineering,	Dr. agr.	Research, project acquisition, continuous teaching
2002/2011	Senior researcher	Bavarian research centre of agriculture, Institute of agricultural Engineering	Dr. agr.	Research, project acquisition, establishment of a department of environmental engineering in agriculture
2011/2023	Full professor	University of Natural Resources and Life Sciences (BOKU), Department of sustainable agricultural systems, institute of agricultural engineering	Univ.Prof. Dr. Dipl.-Ing.agr.	Head of Institute, Vice of department, supervision of PhD-students, continuous teaching
2024 - dato	Full professor	Free University of Bolzano, Faculty of Agricultural, Environmental and Food Sciences	Univ.Prof. Dr. Dipl.-Ing.agr.	

PERSONAL SKILLS

Mother tongue(s) German

Other language(s) English B2-C1

ADDITIONAL INFORMATION

Publications

2024

Krexner T, Bauer A, Gronauer A, Mikovits C, Schmidt J, Kral I: Environmental life cycle assessment of a stilted and vertical bifacial crop-based agrivoltaic multi land-use system and comparison with a mono land-use of agricultural land. J. of Renewable and Sustainable Energy Reviews, 2024, V.196,
DOI: 10.1016/j.rser.2024.114321, URL: https://doi.org/10.1016/j.rser.2024.114321
Medel-Jiménez F; Krexner T; Gronauer A; Kral I: Life cycle assessment of four different precision agriculture technologies and comparison with a conventional scheme; J.of cleaner production, Volume 434, 1 January 2024,DOI: 10.1016/j.jclepro.2023.140198;
URL: https://doi.org/10.1016/j.jclepro.2023.140198, ISSN: 0959-6526

2023

* Kitzler, F; Barta, N; Neugschwandtner, RW; Gronauer, A; Motsch, V WE3DS: An RGB-D Image Dataset for Semantic Segmentation in Agriculture. SENSORS-BASEL. 2023; 23(5), 2713 WoS PubMed FullText FullText_BOKU
Mirzaei, M; Anari, MG; Saronjic, N; Sarkar, S; Kral, I; Gronauer, A; Mohammed, S; Caballero-Calvo, A Environmental impacts of corn silage production: influence of wheat residues under contrasting tillage management types. ENVIRON MONIT ASSESS. 2023; 195(1), 171 WoS PubMed FullText FullText_BOKU
* Shevidi, A; Lizasoain, J; Wlcek, B; Fruehauf, S; Gronauer, A; Bauer, A Biogas Production from Steam-Exploded Maize Stover: Results from Continuous Anaerobic Tank Bioreactor Tests. FERMENTATION-BASEL. 2023; 9(4), 339 WoS FullText FullText_BOKU

2022

* Britz, R; Barta, N; Klingler, A; Schaumberger, A; Bauer, A; Potsch, EM; Gronauer, A; Motsch, V Hyperspectral-Based Classification of Managed Permanent Grassland with Multilayer Perceptrons: Influence of Spectral Band Count and Spectral Regions on Model Performance. AGRICULTURE-BASEL. 2022; 12(5), 579 WoS FullText FullText_BOKU
Britz, R; Barta, N; Schaumberger, A; Klingler, A; Bauer, A; Poetsch, EM; Gronauer, A; Motsch, V Spectral-Based Classification of Plant Species Groups and Functional Plant Parts in Managed Permanent Grassland. REMOTE SENS-BASEL. 2022; 14(5), 1154 WoS FullText FullText_BOKU
* Holzinger, A; Saranti, A; Angerschmid, A; Retzlaff, CO; Gronauer, A; Pejakovic, V; Medel-Jimenez, F; Krexner, T; Gollob, C; Stampfer, K Digital Transformation in Smart Farm and Forest Operations Needs Human-Centered AI: Challenges and Future Directions. SENSORS-BASEL. 2022; 22(8), 3043 WoS PubMed FullText FullText_BOKU
Kitzler, F; Wagentristl, H; Neugschwandtner, RW; Gronauer, A; Motsch, V Influence of Selected Modeling Parameters on Plant Segmentation Quality Using Decision Tree Classifiers. AGRICULTURE-BASEL. 2022; 12(9), 1408 WoS FullText FullText_BOKU
Koppensteiner, LJ; Kaul, HP; Piepho, HP; Barta, N; Euteneuer, P; Bernas, J; Klimek-Kopyra, A; Gronauer, A; Neugschwandtner, RW Yield and yield components of facultative wheat are affected by sowing time, nitrogen fertilization and environment. EUR J AGRON. 2022; 140, 126591 WoS FullText FullText_BOKU

* Krexner, T; Bauer, A; Zollitsch, W; Weiland, K; Bismarck, A; Gronauer, A; Kral, I Environmental life cycle assessment of nano-cellulose and biogas production from manure. J ENVIRON MANAGE. 2022; 314, 115093 WoS PubMed FullText FullText_BOKU

* Medel-Jimenez, F; Piringer, G; Gronauer, A; Barta, N; Neugschwandtner, RW; Krexner, T; Kral, I Modelling soil emissions and precision agriculture in fertilization life cycle assessment-A case study of wheat production in Austria. J CLEAN PROD. 2022; 380, 134841 WoS FullText FullText_BOKU

PUBLIZIERTER Beitrag für wissenschaftliche Veranstaltung

Koppensteiner, L J; Neugschwandtner, R W; Piepho, H-P; Wagentristl, H; Gronauer, A; Kaul, H-P (2022): Statistische Analyse von Feldversuchen. Erfahrungen aus dem Projekt DiLaAg. [76. ALVA-Jahrestagung 2022, Graz, Austria, 30.05.2022 - 31.05.2022]; In: ALVA (Hrsg.), ALVA Jahrestagung 2022, 149-152; ISBN: ISSN 1606-612X

Koppensteiner, L; Kaul, H-P; Piepho, H-P; Barta, N; Wagentristl, H; Gronauer, A; Neugschwandtner, R (2022): Quantitative mixed model analysis and principal component analysis of yield and yield components in facultative wheat affected by environment, sowing date and nitrogen fertilization. [Poster]; [17th Congress of the European Society for Agronomy ESA 2022, Potsdam, Germany, 29.08.2022 - 02.09.2022]; In: Leibniz Centre for Agricultural Landscape Research (ZALF) (Ed.), XVII. Congress of the European Society for Agronomy - Book of abstracts, 388

* Koppensteiner, L; Neugschwandtner, R; Raubitzek, S; Weihs, P; Barta, N; Rischbeck, P; Neubauer, T; Wagentristl, H; Gronauer, A; Kaul, H-P (2022): Estimation of canopy parameters using artificial neural network based radiative transfer model inversion in wheat. [Poster] [17th Congress of the European Society for Agronomy ESA 2022, Potsdam, Germany, 29.08.2022 - 02.09.2022]; In: Leibniz Centre for Agricultural Landscape Research (ZALF) (Ed.), XVII. Congress of the European Society for Agronomy - Book of Abstracts, 387

Koppensteiner, L; Neugschwandtner, R W; Raubitzek, S; Weihs, P; Neubauer, T; Wagentristl, H; Gronauer, A; Kaul, H-P (2022): Verwendung des Strahlungstransfermodells PROSAIL zur Bestimmung von Bestandesparametern in Weizen. [Poster] [Agrar- und Forstwissenschaftliche Konferenz 2022 - Kreislaufwirtschaft: Bedarf – Strategien – Vernetzung, Vienna, Austria, 04.05.2022]; In: Ökosoziales Forum, Abstract Book

* Pichlbauer, B; Chapa-Gonzalez, J M; Purcell, W; Mallinger, K; Koppensteiner, L;Kitzler, F; Pejakovic, V; Medel-Jimenez, F J; Krexner, T; Iwersen, M; Neubauer, T; Neugschwandtner, R; Bauer, A; Kral, I; Motsch, V; Korth, F; Drillich, M; Rauber, A; Tjoa, A M; Kaul, H-P; Gronauer, A (2022): DiLaAg - digitalisation and innovation laboratory in agricultural sciences. [10th European Conference on Precision Livestock Farming 2022, Vienna, Austria, 29.08.2022 - 01.09.2022]; In: D. Berckmans; M. Oczak; M. Iwersen; K. Wagener (Eds.), PRECISION LIVESTOCK FARMING '22, 482-489

2021

Originalbeitrag in Fachzeitschrift

* Dreyer, M; Hortenhuber, S; Zollitsch, W; Jager, H; Schaden, LM; Gronauer, A; Kral, I Environmental life cycle assessment of yellow mealworm (Tenebrio molitor) production for human consumption in Austria - a comparison of mealworm and broiler as protein source. INT J LIFE CYCLE ASS. 2021; 26(11): 2232-2247. WoS FullText FullText_BOKU

Krexner, T; Kral, I; Gronauer, A; Medel-Jiménez, F J; Bauer, A (2021): Comparison of a system expansion and allocation approach for the handling of multi-output processes in life cycle assessment – a case study for nano-cellulose and biogas production from elephant manure. Die Bodenkultur, 72 (3), 113-121; ISSN 0006-5471 FullText FullText_BOKU

PUBLIZIERTER Beitrag für wissenschaftliche Veranstaltung

Koppensteiner, L J; Neugschwandtner, R W; Raubitzek, S; Weihs, P; Neubauer, T; Wagentristl, H; Gronauer, A; Kaul, H-P (2021): Estimation of canopy parameters using inverted radiative transfer modelling in wheat. [Poster] [Jahrestagung Gesellschaft für Pflanzenbauwissenschaften, Rostock, Germany, 28.09.2021 -

30.09.2021]; In: Gesellschaft für Pflanzenbauwissenschaften (Hrsg.), Mitt. Ges. Pflanzenbauwiss. 32, 187-188; ISBN: 0934-5116
Koppensteiner, L; Neugschwandtner, R; Raubitzek, S; Weihs, P; Neubauer, T; Wagentristl, H; Gronauer, A; Kaul, H-P (2021): Verwendung des Strahlungstransfermodells PROSAIL zur Bestimmung von Bestandesparametern in Weizen. [Poster] [75. ALVA-Jahrestagung 2021, Wieselburg, Austria, 04.10.2021 - 05.10.2021]; In: ALVA (Hrsg.), ALVA - Jahrestagung 2021, 439-441; ISBN: ISSN 1606-612X
* Supper, G; Aschauer, C; Gronauer, A; Barta, N (2021): Localisation and navigation of a robot platform using laser scanner and Adaptive Monte Carlo Localisation (AMCL) for an indoor horticultural application. [41. GIL-Jahrestagung 2021, Online, 08.03.2021 - 09.03.2021]; In: A. Meyer-Aurich, M. Gandorfer, C. Hoffmann, C. Weltzien,S. Bellingrath-Kimura, H. Floto (Hrsg.), Informatik in der Land-, Forst- und Ernährungswirtschaft Informations- und Kommunikationstechnologien in kritischen Zeiten; ISBN: 978-3-88579-703-6 FullText