
Prof. Dr.-Ing. Dominik May

Professor for Technical and Engineering Education Research

Curriculum Vitae

University of Wuppertal, School of Mechanical Engineering and Safety Engineering
Chair for Technical and Engineering Education Research
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Passionate Professor, Project Lead, and Engineering Education Researcher, dedicated to enhancing instructional methodologies and students' learning experience, while championing diversity and inclusivity. Proficient in conducting empirical studies to refine pedagogical practices, fostering innovation in engineering education, and promoting student success. Committed to bridging the gap between theory and practice, with extensive experience in developing, integrating, and evaluating innovative learning experiences at the intersection of instructional, technical, and organizational perspectives.

Professional Experience & Research

04/2023 – present

Professor for Technical and Engineering Education Research

Chair for Technical and Engineering Education Research
School of Mechanical Engineering and Safety Engineering
University of Wuppertal, Wuppertal, Germany

02/2018 – 03/2023

Assistant Professor for Engineering Education Research

Engineering Education Transformations Institute (EETI)
College of Engineering, University of Georgia, Athens, USA

Research Projects:

- *CMaT Sub Grant: Virtual Laboratories in Cell Manufacturing Training for the Future of Workforce Development* (funded by US National Science Foundation through the Georgia Institute of Technology, 05/01/2022 – 04/30/2024, \$60.000)
- *EAGER: Investigating the rapid transition from face-to-face to exclusively online engineering laboratory classes in an Electrical and Computer Engineering program* (funded by US National Science Foundation RFE:EAGER program, 08/01/2020 - 07/31/2024, \$300.000)
- *IRM: The ProQual Institute for Research Methods in STEM Education – A Novel Problem-Led and Research-Quality-Focused Approach* (funded by US National Science Foundation EHR:BCSER program, 01/2020 - 12/2023, \$1 Mio.)
- *Introducing and evaluating remote labs in engineering education through the example of VISIR* (funded by UGA Junior Faculty Seed Grant program, 08/2019 - 05/2020, \$20.000)
- *Research center for immersive and industry-connected Cross Reality Learning Spaces in Engineering Education – Building authentic, situated, collaborative, and virtual learning experiences for 21st century engineers* (funded by UGA CENGR Collaboration Seed Grant program, 07/2018 - 12/2019, \$30.000)
- Research group: *EETI Innovative Teaching Lab Group* - Leading a group of faculty members dedicated to the introduction of and research on augmented,

	remote and virtual experimentation labs into the College of Engineering at UGA (12/2018 – 03/2023)
10/2010 – 01/2018	<p>Research Scientist and Project Lead in Engineering Education Research Center for Higher Education (zhh) TU Dortmund University, Dortmund, Germany</p> <p>Research Projects (excerpt):</p> <ul style="list-style-type: none"> ▪ <i>ELLI (Part I & II) - Excellent Teaching and Learning in Engineering Education</i> (10/2011 - 09/2016 & 10/2016 - 12/2020; joint project with RWTH Aachen University and Ruhr University Bochum, funded by German Federal Ministry for Education and Research, 2.4 Mio. EUR at TU Dortmund) ▪ <i>ABEKO-Assistance system for a demographically-sensitive and company-specific competence management for production and logistic processes in the future</i> (01/2013 - 03/2017, funded by German Federal Ministry for Education and Research, 1.8 Mio. EUR) ▪ <i>Innov'ing 2020 - les ingénieurs et l'innovation: nouveaux métiers, nouvelles formations</i> (01/2015 – 12/2016, funded by The French National Research Agency; joint project with Ecole Nationales Supérieure de Techniques Avancées Bretagne, 60.000 EUR) ▪ <i>MINTReLAb - International Manufacturing Remote Lab</i> (01/2015 - 03/2017, funded by Stifterverband, 50.000 EUR) ▪ <i>Competence Center for Higher Engineering Education TeachING-LearnING.EU</i> (10/2010 - 04/2014, joint project with RWTH Aachen University and Ruhr University Bochum; funded by Stifterverband and Volkswagenstiftung, 500.000 EUR)
2023 – present	General Chair for the annual ‘International Conference on Smart Technologies & Education (STE)’ , organized by the International Association of Online Engineering (IAOE), the Edunet World Association (EWA), and the International Education Network (EduNet)
2023 – present	Officer (current program chair) for ‘International Division’ at American Society for Engineering Education (ASEE)
2020 – present	Officer (current program chair) for ‘Experimentation and Laboratory Oriented Studies Division’ at American Society for Engineering Education (ASEE)
2018 – present	Scientific Committee Member for bi-annual ‘Experiment @ International Conference (Ex.Pat)’
2016 – 2023	International Advisory Board Member for the annual ‘International Conference on Remote Engineering and Virtual Instrumentation (REV)’
2021 – present	President of the ‘International Association of Online Engineering (IAOE)’ , Executive Committee Member and Vice-President since 2018
2018 – present	Editor-in-Chief of the ‘International Journal of Emerging Technologies in Learning (iJET)’ , Associate Editor-in-Chief since 2018

Additional Qualification

Further Training in the area of didactics**Multiplier for Higher Education Instruction**

- Successful completion of one-year advanced training course with special focus on developing the ability to train and consult representatives from higher education institutes for curriculum development and instructional excellence processes.

Certificate 'Professional Competence for Higher Education Teaching'

- Successful completion of qualification program for professional teaching at higher education institutes covering the topics teaching, learning, assessing, evaluating, advising, and innovating in education. Certificate proves educational qualification of young researchers in Germany and is designed towards the curriculum of the German Society for Higher Education (dghd)

Teaching Experience

2023 – present

Developed and/or (co-)taught and evaluated the following courses at University of Wuppertal:

- DDT-MA/MB b – Instructional Design of Experiments in Mechanical Engineering
- DDT-BA/BB a – *Instructional Methodologies in Structural Engineering*
- DDT-S1 a – *Assessment in Instructional Design*
- Advisor for Master and PhD Theses in Engineering Education

2018 – 2023

Developed and/or (co-)taught and evaluated the following courses at University of Georgia:

- *MCHE 2990 Engineered Systems in Society*: Course introduces students to socio-technical complexity and explores ways to conceptually understand, systematically analyze, and holistically engage in engineering settings that are characterized by social, cultural, economic, and ecological factors.
- *ENGR 4570/6570 International Engineering Project Management (study abroad course format)*: Course presents theory, principles, techniques, and issues of project management in international engineering contexts and assist students in developing the necessary skills needed for managing engineering projects.
- Advisor for Bachelor, Master, and PhD Theses in Engineering Education

2012 – 2018

Developed and/or (co-)taught and evaluated the following courses at TU Dortmund:

- *Engineering and Mobility in a Globalized world*: Transnational online engineering course for international students in preparation for their stay in Germany using remote laboratory equipment
- *Engineering the Future – A Global Endeavor*: Transnational online engineering course in co-operation with University of Virginia for German and US students on global engineering practice and ethical reasoning in engineering
- *Fit for Science – Performing, organizing, and presenting scientific work in engineering with mobile devices*: Seminar for engineering students to develop scientific working skills
- Advisor for both Bachelor and Master Theses in Engineering

Education & Awards

2012 – 2017

Doctoral Candidate in Mechanical Engineering

TU Dortmund University in Dortmund, Germany
Institute for Forming Technology and Lightweight Construction (IUL)

- Dissertation: *Globally Competent Engineers - Internationalisierung der Ingenieur Ausbildung am Beispiel der Produktionstechnik* (Supervisors: Prof. A.E. Tekkaya & Prof. U. Wilkesmann)

2005 – 2010

Diplomingenieur in Industrial Engineering (Production Management)

TU Dortmund University in Dortmund, Germany

- Thesis: *Development of a practice-oriented training concept for further education in industrial engineering*
- Honored as 'Best Graduate of 2011 in Industrial Engineering at Engineering Faculty' and with 'ThyssenKrupp Student Award' for outstanding performance in studies and an excellent final thesis

Oral presentations

Invited Keynotes & Panels

- *XR laboratories in the context of engineering education research and practice*. At HIS Forum on Laboratories 2023. Invited by Institut für Hochschulentwicklung e. V. (HIS-HE). June 20th, 2023.
- *Panel Discussion: Knowledge Construction in Engineering Education Research – Assessing the Role of Journals, Books, Conferences, and Other Products of Research*. At Frontiers in Education (FIE) Conference 2022. Fellow panelists: Aditya Johri, Kristina Edstrom, Xiangyun Du, John Mitchell. Uppsala, Sweden. October 8th-10th, 2022.
- *Connecting Cross-Reality Learning Spaces and Online Laboratories through Engineering Education Research*. At International e-Engineering Education Services Conference 2021. Invited by the e-Engineering Alliance and the Tafila Technical University Jordan. Tafila Technical University, Tafila, Jordan (held online). June 22nd-23rd, 2021.
- *Online Laboratories and Cross-Reality-Spaces in Engineering Education Research*. At FacING Digitalization: Innovative und zeitgemäße Bildung in den Ingenieurwissenschaften. Invited by Fakultät für Anlagen, Energie und Maschinensysteme at Cologne Technical University. Cologne Technical University, Cologne, Germany (held online). May 17th-20th, 2021.
- *How Cross Reality technology is changing Engineering Education*. At 9th International Conference on Interactive Collaborative and Blended Learning – ICBL2020. Invited by McMaster University, International Association of Online Engineering (IAOE), and International Society for Engineering Pedagogy (IGIP). McMaster University, Hamilton, Canada (held online). October 15th, 2020.
- *Online Experimentation and MOOCs for Modern Engineering Education*. At 3rd International Forum for Online Engineering Education. Invited by Institute of Education at Tsinghua University (IOE) and International Centre for Engineering Education under the auspices of UNESCO (ICEE). Beijing, China. July 7th, 2019.
- *Online Experimentation in the Light of Engineering Education Research and Practice*. At Tsinghua – IIDEA Workshop 2019 'Engineering Education for Sustainable Development'. Invited by International Centre for Engineering Education under the auspices of UNESCO (ICEE), International Institute for Developing Engineering Academics (IIDEA), Center for Engineering

Education (CEE), and Institute of Education (IOE). Tsinghua University; Beijing, China. July 5th-6th, 2019.

- *Vielfalt in der Ingenieurwissenschaftlichen Lehre – Internationalisierung und Digitalisierung als Chance*. At VDI Tagung ‚Engineering Diversity – Vielfalt als Mehrwert gestalten‘. Invited by Verein Deutscher Ingenieure (VDI), Stiftung Mercator, and RWTH Aachen. Aachen, Germany. May 14th, 2019.
- *Remote Experimentation in the light of Engineering Education Research and Practice*. At 16th International Conference on Remote Engineering and Virtual Instrumentation (REV). Invited by BMS College of Engineering. Bengaluru, India. February 3rd, 2019.
- *Internationalisierung durch Remote Labore am Beispiel des MMT – Master of Science in Manufacturing Technology at TU Dortmund*. At Experten-Workshop Remote Labore in Deutschland. Invited by TU Dortmund. December 17th-18th, 2018.
- *Chancen der digitalen Studienvorbereitung am Beispiel des MMT – Master of Science in Manufacturing Technology an der TU Dortmund*. At KI2VA Tagung Vernetzte Hochschule – Netzwerke für die Lehre. Invited by TU Darmstadt. November 13th, 2018.

Workshop Leads

- *Transcending the traditional boundaries of STEM education with Online Laboratories*. Workshop given on International Conference on Remote Engineering and Virtual Instrumentation (REV). Held March 2nd, 2023. Thessaloniki, Greece. With A. Kist (University of Southern Queensland), G. Alves (Polytechnic of Porto), K. Skytt (Blekinge Institute of Technology), I. Verner (Israel Institute of Technology), M. I. Pozzo (National Technological and Scientific Research Council of Argentina).
- *Overcoming Instructional Boundaries through Online Laboratories in Engineering Education*. Workshop given on International Conference on Interactive Collaborative Learning (ICL). Held September 28th, 2022. Vienna, Austria. With A. Kist (University of Southern Queensland), G. Alves (Polytechnic of Porto), K. Skytt (Blekinge Institute of Technology), I. Verner (Israel Institute of Technology), M. I. Pozzo (National Technological and Scientific Research Council of Argentina).
- *Mixed Reality in Engineering Education: How Does it Affect User Experience, Motivation, and Student Performance?*. Online workshop at the 2020 Annual Conference & Exposition by the American Society for Engineering Education. Held June 22nd-25th, 2020, online conference. With Dr. K. Johnsen (UGA) and Dr. V. Varney (RWTH Aachen)
- *Online Experimentation in the Light of Engineering Education Research and Practice*. At Tsinghua – IIDEA Workshop 2019 ‘Engineering Education for Sustainable Development’. International Centre for Engineering Education under the auspices of UNESCO (ICEE) & International Institute for Developing Engineering Academics (IIDEA) & Center for Engineering Education (CEE) and Institute of Education (IOE). July 5th-6th 2019 at Tsinghua University, Beijing, China.
- *Evaluating Remote and Virtual Laboratories in STEM Disciplines*. At 2019 Annual Conference & Exposition by the American Society for Engineering Education. Sponsored by Global Online Laboratory Consortium. June 16th 2019, Tampa, Florida. With Valerie Varney (RWTH Aachen), Juan Pablo Orduna (LabsLand and University of Deusto) and Michael Auer (Carinthia Technical University)
- *Remote Laboratories for Engineering Education*. At 2018 Annual Conference & Exposition by the American Society for Engineering Education. Sponsored by Global Online Laboratory Consortium. June 24th 2018, Salt Lake City, Utah. With A. Azad (Northern Illinois University), Michael Auer (Carinthia Technical University) and K. Ram B (Electrono)

- *How to evaluate and enhance remote and virtual learning environments in STEM disciplines.* At 14th International Conference on Remote Engineering and Virtual Instrumentation REV 2017. March 15th -17th 2017, Columbia University, New York. With T.R. Ortelt, C. Terkowsky, D. Kruse, R. Kuska, V. Stehling, D. Janßen, K. Groß
- *ING-International – Ingenieurausbildung transnational, digital und fachspezifisch gestalten.* At „Wie international soll MINT sein?“, sponsored by Stifterverbandes and Förderprogramm MINTernational. October 13th 2016, Berlin, Deutschland. With T. Ortelt (TU Dortmund) and MOOC@TU9 consortium
- *Fachbezogener Workshop 1-1: Ingenieurwissenschaften.* At Fachtagung "Lehr- und Lernformen" of Qualitätspakt Lehre. June 25th – 26th 2015, Leipzig, Germany. With T. R. Ortelt (TU Dortmund), K. Schuster (RWTH Aachen) und R. Kuska (Ruhr Universität Bochum)
- *Prüfungsformen in Studienprojekten mit großen Gruppen.* At 6. Dortmunder Spring School for Academic Staff Developers "Was ist gute Lehre". May 26th – 28th at TU Dortmund University, Dortmund, Germany. With T. Jungmann

Scientific Publications

Popular Articles & Publications

- May, D. (2021). *Online Laboratories in Engineering Education with Dr. Dominik May.* Podcast interview episode for Reflective Teaching In A Digital Age from N. Perova-Mello and N. Pitterson (hosts). URL: <https://reflectiveteaching.buzzsprout.com/1384834/8795267-online-laboratories-in-engineering-education-with-dr-dominik-may>. online podcast.
- May, D. (2021). *Online Laboratories and Cross-Reality in Engineering Education.* Research Outreach Connecting Science with Society. Issue 125. 42-45
- May, D. (2020). *Wie Cross Reality die Hochschullehre verändern kann und wird.* Online publication for The Hochschulforum Digitalisierung (HFD) URL: <https://hochschulforumdigitalisierung.de/de/blog/wie-cross-reality-die-hochschullehre-veraendern-kann-und-wird>

Editorships & Books

- May, D., Terkowsky, C., Boehringer, D., & Varney, V. (Guest Eds.). (in press). *Online Laboratories in Higher Engineering Education: Solutions, Challenges, and Future Directions from a Pedagogical Perspective (Special Issue of the European Journal of Engineering Education - EJEE).* European Society for Engineering Education (SEFI).
- May, D., Jahnke, I., & Moore, St. L. (Guest Eds.). (2023). *Online Labs and Virtual Experimentation in Higher Education* (Special Issue of Journal of Computing in Higher Education - JCHE). Springer.
- Auer, M., Pester, M., & May, D. (Eds.). (2022). *Learning with Technologies and Technologies in Learning - Experiences, Trends and Challenges in Higher Education* (Vol. 1): Springer.
- Auer, M. E., & May, D. (Eds.). (2021). *Cross Reality and Data Science in Engineering - Proceedings of the 17th International Conference on Remote Engineering and Virtual Instrumentation* (1 ed. Vol. 1231). Cham: Springer International Publishing.
- Terkowsky, C., May, D., Haertel, T., Lensing, K., Frye, S., Ortelt, T. R., & Sabrina, H. (Eds.). (2020). *Labore in der Hochschullehre - Didaktik, Digitalisierung, Organisation.* Bielefeld: wbv Publikation.

- May, D. (2017). *Globally competent engineers: Internationalisierung der Ingenieurausbildung am Beispiel der Produktionstechnik* (Vol. 95). Dissertation. Aachen: Shaker Verlag.
- Neubauer, D., Löcken, J., Haertel, T., May, D., Radtke, M., & Dehler, J. (2017). *Praxis-Leitfaden zur Gestaltung demografiesensibler beruflicher Weiterbildung*. Dortmund: Center for Higher Education, TU Dortmund University.
- Tekkaya, A. E., Jeschke, S., Petermann, M., May, D., Friese, N., Ernst, C., Mueller, K., Schuster, K. (Eds.). (2013). *TeachING-LearnING.EU discussions - Innovationen für die Zukunft der Lehre in den Ingenieurwissenschaften (Conference Proceedings of TeachING-LearnING.EU 'movING forward – Engineering Education from vision to mission' 2013)*. Aachen, Bochum, Dortmund: TeachING-LearnING.EU.
- Petermann, M., Jeschke, S., Tekkaya, A. E., Mueller, K., Schuster, K., & May, D. (Eds.). (2013). *TeachING-LearnING.EU innovations: Flexible Fonds zur Förderung innovativer Lehre in den Ingenieurwissenschaften (Conference Proceedings of TeachING-LearnING.EU 'LearnING by doING – Wie steigern wir den Praxisbezug in den Ingenieurwissenschaften?' 2012)* Aachen, Bochum, Dortmund: TeachING-LearnING.EU.
- Petermann, M., Jeschke, S., Tekkaya, A. E., Mueller, K., Schuster, K., & May, D. (Eds.). (2012). *TeachING-LearnING.EU Fachtagung - LearnING by doING - Wie steigern wir den Praxisbezug im Ingenieurstudium? (Conference Proceedings 2012)*. Aachen, Bochum, Dortmund: TeachING-LearnING.EU.

Book Chapters & Journal Articles

- Li, R., Morelock, J. R., & May, D. (in press). *An Investigation into Peer-Assisted Learning in an Online Lab Environment*. ASEE Computers in Education Journal.
- May, D., Terkowsky, C., Boehringer, D., & Varney, V. (in press). *Between hands-on experiments and Cross Reality learning environments – a reflection on contemporary educational approaches in instructional laboratories*. European Journal of Engineering Education.
- May, D., & Jahnke, I. (under review). *Remote and Virtual Labs: Evaluation of Learning Experience Design with Socio-Technical-Pedagogical Heuristics*. In I. Isenhardt & W. Frenz (Eds.), *Yearbook Digitalisation (RWTH Aachen University)*: Springer Nature.
- May, D., Jahnke, I., & Moore, S. L. (2023). *Online laboratories and virtual experimentation in higher education from a sociotechnical-pedagogical design perspective*. Journal of Computig in Higher Education
- Oje, A. V., Hunsu, N. J., & May, D. (2023). *Virtual reality assisted engineering education: A multimedia learning perspective*. Computers & Education: X Reality, 3, 100033.
- May, D., Alves, G. R., Kist, A. A., & Zvacek, S. M. (2023). *Online Laboratories in Engineering Education Research and Practice*. In A. Johri (Ed.), *International Handbook of Engineering Education* (pp. 525-552): Routledge.
- May, D., Morkos, B., Jackson, A., Hunsu, N., Ingalls, A., & Beyette Jr., F. R. (2022). *Rapid Transition of Traditionally Hands-On Labs to Online Instruction in Engineering Courses*. European Journal of Engineering Education (EJEE).
- Ortelt, T. R., Terkowsky, C., Schwandt, A., Winzker, M., Pfeiffer, A., Uckelmann, D., Hawlitschek, A., Zug, S., Henke, K., Nau, J., & May, D. (2021). *Die Digitale Zukunft des Lernens und Lehrens mit Remote-Laboren*. In HochschulforumDigitalisierung (Ed.), *Digitalisierung in Studium und Lehre gemeinsam gestalten: Innovative Formate, Strategien und Netzwerke* (pp. 553-575). Wiesbaden: Springer Fachmedien.
- Li, R., Morelock, J. R., & May, D. (2020). *A Comparative Study of An Online Lab Using Labsland and Zoom during COVID-19*. Advances in Engineering Education, 8(4), 1-10.

- Radtke, M., Terkowsky, C., Haertel, T., Ortelt, T., & May, D. (2020). *Kreativitätsförderung von Studierenden in ingenieurwissenschaftlichen Laboren*. In I. Isenhardt, M. Petermann, M. Schmohr, A. E. Tekkaya, & U. Wilkesmann (Eds.), *Lehren und Lernen in den Ingenieurwissenschaften: innovativ - digital - international* (pp. 33-50). Bielefeld: wbv Publikation.
- Frye, S., Radtke, M., & May, D. (2020). *Grenzen überwinden mit digitalem Lernen und Lehren - Internationalisierung "on the Web"*. In I. Isenhardt, M. Petermann, M. Schmohr, A. E. Tekkaya, & U. Wilkesmann (Eds.), *Lehren und Lernen in den Ingenieurwissenschaften: innovativ - digital - international* (pp. 85-98). Bielefeld: wbv Publikation.
- Terkowsky, C., May, D., & Frye, S. (2020). *Forschendes Lernen im Labor: Labordidaktische Ansätze zwischen Hands-on und Cross-Reality*. In C. Terkowsky, D. May, S. Frye, T. Haertel, T. Ortelt, S. Heix, & K. Lensing (Eds.), *Labore in der Hochschullehre - Didaktik, Digitalisierung, Organisation* (pp. 13-34). Bielefeld: wbv Publikation.
- May, D., Frye, S., & Terkowsky, C. (2020). *Die Eignung von Remote-Laboren zur Förderung von Kompetenzen für die Industrie 4.0 am Beispiel von VISIR*. In C. Terkowsky, D. May, S. Frye, T. Haertel, T. Ortelt, S. Heix, & K. Lensing (Eds.), *Labore in der Hochschullehre - Didaktik, Digitalisierung, Organisation* (pp. 211-226). Bielefeld: wbv Publikation.
- May, D., Terkowsky, C., Alves, G. R., Auer, M. E., Bhimavaram, K. R., Castro, M., Kist, Alexander A. & Orduña, P. (2020). *Ausblick: Welche Rolle spielen Online-Labore für die Zukunft der Laborlehre?* In C. Terkowsky, D. May, S. Frye, T. Haertel, T. Ortelt, S. Heix, & K. Lensing (Eds.), *Labore in der Hochschullehre - Didaktik, Digitalisierung, Organisation* (pp. 283-298). Bielefeld: wbv Publikation.
- May, D. (2020). *Cross Reality Spaces in Engineering Education—Online Laboratories for Supporting International Student Collaboration in Merging Realities*. *International Journal of Online and Biomedical Engineering (iJOE)*, 16(03), 4-26.
- Terkowsky, C., Frye, S., & May, D. (2019). *Online engineering education for manufacturing technology: Is a remote experiment a suitable tool to teach competences for "Working 4.0"?* *European Journal of Education*, 54(4), 577-590.
- Haertel, T., Terkowsky, C., May, D., Wissemann, S., Leisyte, L., & Rose, A.-L. (2019). *Kreativität und Entrepreneurship in der Hochschullehre: personen- und prozessorientierte Lerninhalte*. In *Handbuch Innovative Lehre* (pp. 441-451). Wiesbaden: Springer.
- Terkowsky, C., May, D., & Frye, S. (2019). *Labordidaktik: Kompetenzen für die Arbeitswelt 4.0*. In T. Haertel, C. Terkowsky, S. Dany, & S. Heix (Eds.), *Hochschullehre & Industrie* (Vol. 4, pp. 89-103). Bielefeld: wbv.
- Hegmanns T., N. Straub, S. Kaczmarek, D. May, M. Radtke, T. Haertel, D. Neubauer (2019). *Identifikation zukünftiger Kompetenzbedarfe in der Logistik*. In A. C. Bullinger-Hoffmann (Ed.), *Zukunftstechnologien und Kompetenzbedarfe* (pp. 103-125). Berlin, Heidelberg: Springer.
- Hegmanns T., N. Straub, S. Kaczmarek, B. Rudolph, D. Sobiech, S. Müller, J. Dehler, T. Haertel, D. May, M. Radtke, D. Neubauer, A. Möllmann, B. Zaremba (2019). *Kompetenzmanagement in der Logistik der Zukunft—ein Umsetzungsbeispiel von der Modellierung und Diagnostik zur unternehmensspezifischen und individuellen Kompetenzentwicklung*. In A. C. Bullinger-Hoffmann (Ed.), *Zukunftstechnologien und Kompetenzbedarfe* (pp. 199-232). Berlin, Heidelberg: Springer.
- Terkowsky, C., Haertel, T., Rose, A. L., Leisyte, L., & May, D. (2018). *Swimming with Sharks without Being Eaten: How Engineering Students can Learn Creativity, Entrepreneurial Thinking and Innovation*. In D. Lemaitre (Ed.), *Training Engineers for Innovation* (pp. 145-176). London, Hoboken: ISTE Ltd and John Wiley & Sons.

- Terkowsky, C., Haertel, T., Rose, A. L., Leisyte, L., & May, D. (2018). *Nager avec les requins sans se faire dévorer: comment les étudiants en ingénierie peuvent apprendre à être créatifs, à développer un esprit d'entreprise et à innover*. In D. Lemaitre (Ed.), *Formation des ingénieurs à l'innovation* (pp. 159-188). Londres, Hoboken: ISTE Ltd and John Wiley & Sons.
- Terkowsky, C., Frye, S., Haertel, T., May, D., Wilkesmann, U., & Jahnke, I. (2018). *Technik- und Ingenieurdidaktik in der hochschulischen Bildung*. In B. Zinn, R. Tenberg, & D. Pittich (Eds.), *Technikdidaktik - Eine interdisziplinäre Bestandsaufnahme* (Vol. 1, pp. 87-97). Stuttgart: Franz Steiner Verlag.
- May, D., N. Schiffeler, T. R. Ortelt, F. Goeckede, S. Frerich, D. Keddi, V. Stehling, A. Richert, S. Jeschke, M. Petermann & A. E. Tekkaya (2017). *Internationalisierung und Digitalisierung in den Ingenieurwissenschaften*. *Zeitschrift für Hochschulentwicklung*, 12(4), 105-117.
- Baumert, B., May, D., & Müller, S.-C. (2017). *Professionsorientierung in der Lehre im Vergleich. Constructive Alignment als allgemeines Vorgehensmodell zur Lehrplanung in unterschiedlichen Fachkulturen*. *Neues Handbuch Hochschullehre*, Griffmarke B 3.1 Planung von Hochschulveranstaltungen/Constructive Alignment, 13-44.
- Morace, C., May, D., Terkowsky, C., & Reynet, O. (2017). *Effects of globalisation on higher engineering education in Germany—current and future demands*. *European Journal of Engineering Education*, 42(2), 142-155.
- Terkowsky, C., Haertel, T., Ortelt, T., Radtke, M., May, D., & Tekkaya, A. E. (2016). *Creating a Place to Bore Or a Place to Explore? Investigating Possibilities to Foster Students' Creativity in the Manufacturing Engineering Lab*. *The International Journal of Creativity and Problem Solving*, 26(2), 23-46.
- May, D., Terkowsky, C., Haertel, T., & Pleul, C. (2016). *Bringing Remote Labs and Mobile Learning Together*. In S. Frerich, T. Meisen, A. Richert, M. Petermann, S. Jeschke, U. Wilkesmann, & A. E. Tekkaya (Eds.), *Engineering Education 4.0: Excellent Teaching and Learning in Engineering Sciences* (pp. 113-130). Cham: Springer International Publishing.
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