

## SIMON MEIßNER

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### RESEARCH SKILLS in the Field of Environmental Resource Studies

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Criticality of natural resources, particularly focussing on water, metals and minerals  
Calculating and Modelling of material flows and production chains  
Studies on critical raw materials, carbon and water footprinting, life cycle assessments (LCA)  
Interdisciplinary environmental research  
Scientific collaboration with the industry on supply shortages of raw materials and climate protection strategies

### EDUCATION AND RESEARCH POSITIONS

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#### University of Augsburg (2022)

Habilitation in Geography: Global Metal Mining and Physical Water Stress - Water Impact Assessment of the Mining Industry within the Raw Materials Criticality Methodology

#### University of Augsburg, Environment Science Centre (since 2019)

Senior Researcher and Lecturer, Department of Environmental Resource Studies

#### University of Augsburg, Chair of Resource Strategy, Prof. Dr. Armin Reller (2009 - 2019)

Researcher and Lecturer in the field of Criticality of natural resources, water, metals and minerals

#### Ludwig-Maximilians-University Munich, Chair of Sociology, Prof. Dr. Ulrich Beck (2008 – 2009)

Postdoc, Research Project "Controversies on Science for Politics (MACOSPOL)"

#### University of Augsburg (2004)

PhD in Geography: Potentiale für einen nachhaltigen Umgang mit Wasser in den Alpen am Beispiel der Alpenländer Deutschland, Österreich und der Schweiz sowie ausgewählter Alpenregionen

#### University of Augsburg, Environment Science Centre (2002 - 2008)

Researcher and Scientific Assistant

#### University of Augsburg (2002)

Diploma in Geography: Regionale Ressourcenvernetzung am Beispiel einer bayerischen Mittelstandsbrauerei

#### University of Augsburg (2002)

Study of Human Geography, Spatial Planning and Public Law

### MEMBERSHIP OF PROFESSIONAL SOCIETIES (exemplary)

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Member of the International Geographical Union (IGU) (since 2022)

Member of the German Geographical Society (DGfG) (since 2022)

Sustainability Advisory Board of the City of Augsburg (since 2016)

Member of the Sustainability Working Group of the University of Augsburg (since 2015)

Member of the Swabian Geographical Society (since 2015)

Member of the Environment Science Centre of the University of Augsburg (since 2011)

## **PUBLICATIONS** (exemplary)

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Meißner, S. (2021): The Impact of Metal Mining on Global Water Stress and Regional Carrying Capacities—A GIS-Based Water Impact Assessment. In: Resources, Special Issue „Economic, Environmental and Social Assessment of Raw Materials for a Green and Resilient Economy“, 2021, 10(12), 120. <https://doi.org/10.3390/resources10120120>

Meißner, S. (2017): Globale Rohstoffumbrüche erfordern Umdenken. In: UmweltDialog. Wirtschaft. Verantwortung. Nachhaltigkeit, Nr. 7 (05/2017), Macondo, Münster. pp.. 28 - 33.

Meißner, S. (2012): Virtual water and water footprints: Global supply and production chains and their impacts on freshwater resources. In: Cless, K.-H.; Hahn, H.P.; Soentgen, J. (Hrsg.): People at the well. Kinds, usages and meanings of water in a global perspective. Campus, Frankfurt, New York, 2012. pp. 44 - 64.

Krohns, S.; Lunkenheimer, P.; Meissner, S.; Reller, A.; Gleich, B.; Rathgeber, A.; Gaugler, T.; Buhl, H.U.; Sinclair, D.C.; and Loidl, A. (2011): The Route to resource-efficient novel materials. In: Nature Materials. December 2011, volume 10, no. 12. pp. 899 - 901. (available at: <http://www.nature.com/nmat/journal/v10/n12/full/nmat3180.html>)

Achzet, B.; Zepf, V.; Meißner, S.; Reller, A. (2010): Strategien für einen verantwortlichen Umgang mit Metallen und deren Ressourcen. In: Chemie Ingenieur Technik 11 (2010), pp. 1919 - 1924.

## **CONFERENCE PAPERS** (exemplary)

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Presentation „Quo vadis Ressourcenextraktivismus im 21. Jahrhundert - von der Verknappung zum potenziellen Überfluss?“, July 3rd, 2021 at the conference „Kulturen im Anthropozän. Eine interdisziplinäre Herausforderung“, University of Innsbruck.

Presentation „Zunehmende Komplexitäten von Produktionsnetzwerken erfordern mehr Transparenz und geographische Kompetenz zur Beurteilung externalisierter Umweltimplikationen“, September 9th, 2019 at the DKG-conference, University of Kiel.

Presentation „Raumspezifische Analysen als Voraussetzung zur Einschätzung der Ressourcenkritikalität im Rahmen des Risikomanagements rohstoffverarbeitender Unternehmen“, September 9th, 2019 at the DKG-conference, University of Kiel.

Presentation „Impacts of Metal Extraction and Refining on Local Freshwater Resources – A Methodological Approach to Assess the Criticality of the Water-Resource-Nexus from a Global Perspective“, March 3<sup>rd</sup>, 2019 at the conference „Resources for a social-ecological transformation“, University of Innsbruck.

Presentation „Ressourcenspezifische Herausforderungen zur Entwicklung zukunftsfähiger Energietechnologien“, May 30th, 2018 at the National Academy of Science and Engineering, Berlin.

Presentation „Energiewende = Rohstoffwende? Ressourcen- und umweltspezifische Herausforderungen der energetischen Transformation“, July 23rd, 2017 at the German National Academy of Sciences Leopoldina, Hamburg.