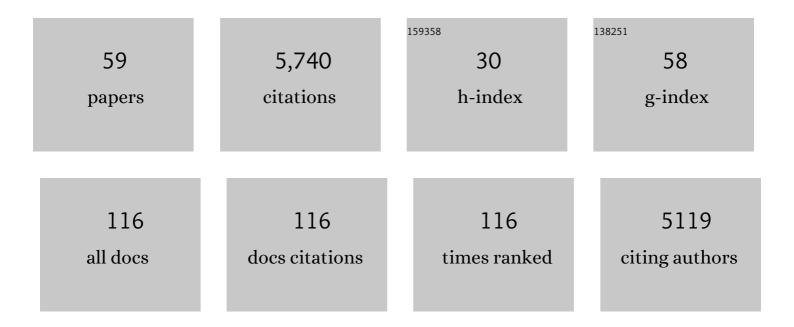
Holger Tost

List of Publications by Year in descending order

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HOLCEP TOST

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The atmospheric chemistry general circulation model ECHAM5/MESSy1: consistent simulation of ozone from the surface to the mesosphere. Atmospheric Chemistry and Physics, 2006, 6, 5067-5104. | 1.9 | 528 |
| 2 | Development cycle 2 of the Modular Earth Submodel System (MESSy2). Geoscientific Model Development, 2010, 3, 717-752. | 1.3 | 398 |
| 3 | The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895. | 1.9 | 363 |
| 4 | Bacteria in the global atmosphere – Part 2: Modeling of emissions and transport between different ecosystems. Atmospheric Chemistry and Physics, 2009, 9, 9281-9297. | 1.9 | 284 |
| 5 | Technical Note: The Modular Earth Submodel System (MESSy) - a new approach towards Earth System Modeling. Atmospheric Chemistry and Physics, 2005, 5, 433-444. | 1.9 | 282 |
| 6 | Technical note: A new comprehensive SCAVenging submodel for global atmospheric chemistry modelling. Atmospheric Chemistry and Physics, 2006, 6, 565-574. | 1.9 | 265 |
| 7 | Global distribution of the effective aerosol hygroscopicity parameter for CCN activation. Atmospheric Chemistry and Physics, 2010, 10, 5241-5255. | 1.9 | 230 |
| 8 | Technical Note: An implementation of the dry removal processes DRY DEPosition and SEDImentation in the Modular Earth Submodel System (MESSy). Atmospheric Chemistry and Physics, 2006, 6, 4617-4632. | 1.9 | 216 |
| 9 | Earth System Chemistry integrated Modelling (ESCiMo) with the Modular Earth Submodel System (MESSy) versionÂ2.51. Geoscientific Model Development, 2016, 9, 1153-1200. | 1.3 | 208 |
| 10 | Technical note: Implementation of prescribed (OFFLEM), calculated (ONLEM), and pseudo-emissions (TNUDGE) of chemical species in the Modular Earth Submodel System (MESSy). Atmospheric Chemistry and Physics, 2006, 6, 3603-3609. | 1.9 | 198 |
| 11 | Description and evaluation of GMXe: a new aerosol submodel for global simulations (v1). Geoscientific Model Development, 2010, 3, 391-412. | 1.3 | 178 |
| 12 | The role of carbonyl sulphide as a source of stratospheric sulphate aerosol and its impact on climate. Atmospheric Chemistry and Physics, 2012, 12, 1239-1253. | 1.9 | 178 |
| 13 | The Palaeoanthropocene – The beginnings of anthropogenic environmental change. Anthropocene, 2013, 3, 83-88. | 1.6 | 178 |
| 14 | Lightning and convection parameterisations – uncertainties in global modelling. Atmospheric Chemistry and Physics, 2007, 7, 4553-4568. | 1.9 | 163 |
| 15 | The atmospheric chemistry box model CAABA/MECCA-3.0. Geoscientific Model Development, 2011, 4, 373-380. | 1.3 | 161 |
| 16 | Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713. | 1.9 | 148 |
| 17 | Influence of different convection parameterisations in a GCM. Atmospheric Chemistry and Physics, 2006, 6, 5475-5493. | 1.9 | 139 |
| 18 | Distributions and regional budgets of aerosols and their precursors simulated with the EMAC chemistry-climate model. Atmospheric Chemistry and Physics, 2012, 12, 961-987. | 1.9 | 130 |

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| # | Article | IF | CITATIONS |
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| 19 | AOD trends during 2001–2010 from observations and model simulations. Atmospheric Chemistry and Physics, 2015, 15, 5521-5535. | 1.9 | 123 |
| 20 | Uncertainties in atmospheric chemistry modelling due to convection parameterisations and subsequent scavenging. Atmospheric Chemistry and Physics, 2010, 10, 1931-1951. | 1.9 | 113 |
| 21 | Stratospheric dryness: model simulations and satellite observations. Atmospheric Chemistry and Physics, 2007, 7, 1313-1332. | 1.9 | 109 |
| 22 | Global cloud and precipitation chemistry and wet deposition: tropospheric model simulations with ECHAM5/MESSy1. Atmospheric Chemistry and Physics, 2007, 7, 2733-2757. | 1.9 | 104 |
| 23 | Simulating organic species with the global atmospheric chemistry general circulation model ECHAM5/MESSy1: a comparison of model results with observations. Atmospheric Chemistry and Physics, 2007, 7, 2527-2550. | 1.9 | 95 |
| 24 | Effects of business-as-usual anthropogenic emissions on air quality. Atmospheric Chemistry and Physics, 2012, 12, 6915-6937. | 1.9 | 76 |
| 25 | Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. Atmospheric Chemistry and Physics, 2016, 16, 3525-3561. | 1.9 | 75 |
| 26 | Technical Note: Coupling of chemical processes with the Modular Earth Submodel System (MESSy) submodel TRACER. Atmospheric Chemistry and Physics, 2008, 8, 1677-1687. | 1.9 | 65 |
| 27 | Stratospheric sulfur and its implications for radiative forcing simulated by the chemistry climate model EMAC. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2103-2118. | 1.2 | 59 |
| 28 | Distribution of hydrogen peroxide and formaldehyde over Central Europe during the HOOVER project. Atmospheric Chemistry and Physics, 2011, 11, 4391-4410. | 1.9 | 55 |
| 29 | A new radiation infrastructure for the Modular Earth Submodel System (MESSy, based on version) Tj ETQq1 1 0. | 784314 rg 1.3 | $_{51}^{\rm BT}$ /Overlock |
| 30 | EMAC model evaluation and analysis of atmospheric aerosol properties and distribution with a focus on the Mediterranean region. Atmospheric Research, 2012, 114-115, 38-69. | 1.8 | 48 |
| 31 | Technical Note: Simulation of detailed aerosol chemistry on the global scale using MECCA-AERO. Atmospheric Chemistry and Physics, 2007, 7, 2973-2985. | 1.9 | 37 |
| 32 | Sensitivity of aerosol radiative effects to different mixing assumptions in the AEROPT 1.0 submodel of the EMAC atmospheric-chemistry–climate model. Geoscientific Model Development, 2014, 7, 2503-2516. | 1.3 | 35 |
| 33 | Impact of mineral dust on cloud formation in a Saharan outflow region. Atmospheric Chemistry and Physics, 2012, 12, 11383-11393. | 1.9 | 34 |
| 34 | Global and regional impacts of HONO on the chemical composition of clouds and aerosols. Atmospheric Chemistry and Physics, 2014, 14, 1167-1184. | 1.9 | 32 |
| 35 | Sensitivity of transatlantic dust transport to chemical aging and related atmospheric processes. Atmospheric Chemistry and Physics, 2017, 17, 3799-3821. | 1.9 | 31 |
| 36 | Consistent simulation of bromine chemistry from the marine boundary layer to the stratosphere – Part 1: Model description, sea salt aerosols and pH. Atmospheric Chemistry and Physics, 2008, 8, 5899-5917. | 1.9 | 30 |

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| # | Article | IF | CITATIONS |
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| 37 | Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. Atmospheric Chemistry and Physics, 2019, 19, 11587-11612. | 1.9 | 24 |
| 38 | A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. Atmospheric Chemistry and Physics, 2020, 20, 1341-1361. | 1.9 | 24 |
| 39 | Urban emission hot spots as sources for remote aerosol deposition. Geophysical Research Letters, 2012, 39, . | 1.5 | 23 |
| 40 | Urban Trees and Their Impact on Local Ozone Concentration—A Microclimate Modeling Study. Atmosphere, 2019, 10, 154. | 1.0 | 23 |
| 41 | Uncertainties in future climate predictions due to convection parameterisations. Atmospheric Chemistry and Physics, 2014, 14, 5561-5576. | 1.9 | 21 |
| 42 | Chemistry–climate interactions of aerosol nitrate from lightning. Atmospheric Chemistry and Physics, 2017, 17, 1125-1142. | 1.9 | 20 |
| 43 | A multi-model assessment of the impact of sea spray geoengineering on cloud droplet number. Atmospheric Chemistry and Physics, 2012, 12, 11647-11663. | 1.9 | 19 |
| 44 | Global aerosol modeling with MADE3 (v3.0) in EMAC (based on v2.53): model description and evaluation. Geoscientific Model Development, 2019, 12, 541-579. | 1.3 | 17 |
| 45 | Improvements of organic aerosol representations and their effects in large-scale atmospheric models. Atmospheric Chemistry and Physics, 2012, 12, 8687-8709. | 1.9 | 16 |
| 46 | The 1-way on-line coupled model system MECO(n) – PartÂ4: Chemical evaluation (based on MESSyÂv2.52). Geoscientific Model Development, 2016, 9, 3545-3567. | 1.3 | 14 |
| 47 | Simulation of organics in the atmosphere: evaluation of EMACv2.54 with the Mainz Organic Mechanism (MOM) coupled to the ORACLE (v1.0) submodel. Geoscientific Model Development, 2022, 15, 2673-2710. | 1.3 | 13 |
| 48 | Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). Geoscientific Model Development, 2018, 11, 4021-4041. | 1.3 | 12 |
| 49 | Including vegetation dynamics in an atmospheric chemistry-enabled general circulation model: linking LPJ-GUESS (v4.0) with the EMAC modelling system (v2.53). Geoscientific Model Development, 2020, 13, 1285-1309. | 1.3 | 12 |
| 50 | Implementation of the Community Earth System Model (CESM) version 1.2.1 as a new base model into version 2.50 of the MESSy framework. Geoscientific Model Development, 2016, 9, 125-135. | 1.3 | 11 |
| 51 | Profile information on CO from SCIAMACHY observations using cloud slicing and comparison with model simulations. Atmospheric Chemistry and Physics, 2014, 14, 1717-1732. | 1.9 | 9 |
| 52 | Aerosol pollution potential from major population centers. Atmospheric Chemistry and Physics, 2013, 13, 4203-4222. | 1.9 | 8 |
| 53 | Revision of the convective transport module CVTRANS 2.4 in the EMAC atmospheric chemistry–climate model. Geoscientific Model Development, 2015, 8, 2435-2445. | 1.3 | 7 |
| 54 | Cold cloud microphysical process rates in a global chemistry–climate model. Atmospheric Chemistry and Physics, 2021, 21, 1485-1505. | 1.9 | 7 |

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| 55 | In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 2: NPF inside ice clouds. Atmospheric Chemistry and Physics, 2021, 21, 13455-13481. | 1.9 | 5 |
| 56 | A fast stratospheric chemistry solver: the E4CHEM submodel for the atmospheric chemistry global circulation model EMAC. Geoscientific Model Development, 2010, 3, 321-328. | 1.3 | 2 |
| 57 | Global simulation of semivolatile organic compounds – development and evaluation of the MESSy submodel SVOC (v1.0). Geoscientific Model Development, 2019, 12, 3585-3607. | 1.3 | 2 |
| 58 | Evaluation of the coupled high-resolution atmospheric chemistry model system MECO(n) using in situ and MAX-DOAS NO ₂ measurements. Atmospheric Measurement Techniques, 2021, 14, 5241-5269. | 1.2 | 2 |
| 59 | Superparameterised cloud effects in the EMAC general circulation model (v2.50) – influences of model configuration. Geoscientific Model Development, 2020, 13, 2671-2694. | 1.3 | Ο |