

Roland von Glasow

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

5,145
citations

126708

33
h-index

174990

52
g-index

54
all docs

54
docs citations

54
times ranked

5433
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3161-3189. | 1.9 | 36 |
| 2 | A global model of tropospheric chlorine chemistry: Organic versus inorganic sources and impact on methane oxidation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,271. | 1.2 | 86 |
| 3 | Tropospheric Halogen Chemistry: Sources, Cycling, and Impacts. <i>Chemical Reviews</i> , 2015, 115, 4035-4062. | 23.0 | 344 |
| 4 | Consumption of reactive halogen species from sea-salt aerosol by secondary organic aerosol: slowing down the bromine explosion. <i>Environmental Chemistry</i> , 2015, 12, 476. | 0.7 | 5 |
| 5 | Short-Lived Trace Gases in the Surface Ocean and the Atmosphere. <i>Springer Earth System Sciences</i> , 2014, , 1-54. | 0.1 | 17 |
| 6 | 1980–2010 Variability in U.K. Surface Wind Climate. <i>Journal of Climate</i> , 2013, 26, 1172-1191. | 1.2 | 54 |
| 7 | Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems. <i>Ambio</i> , 2013, 42, 13-28. | 2.8 | 117 |
| 8 | The influence of meteorological factors and biomass burning on surface ozone concentrations at Tanah Rata, Malaysia. <i>Atmospheric Environment</i> , 2013, 70, 435-446. | 1.9 | 64 |
| 9 | Idealized WRF model sensitivity simulations of sea breeze types and their effects on offshore windfields. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 443-461. | 1.9 | 62 |
| 10 | High temporal resolution Br ₂ , BrCl and BrO observations in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1329-1343. | 1.9 | 33 |
| 11 | Evolving research directions in Surface Ocean - Lower Atmosphere (SOLAS) science. <i>Environmental Chemistry</i> , 2013, 10, 1. | 0.7 | 40 |
| 12 | Halogen activation via interactions with environmental ice and snow in the polar lower troposphere and other regions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6237-6271. | 1.9 | 209 |
| 13 | Modeling chemistry in and above snow at Summit, Greenland – Part 2: Impact of snowpack chemistry on the oxidation capacity of the boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6537-6554. | 1.9 | 63 |
| 14 | Overview of the 2007 and 2008 campaigns conducted as part of the Greenland Summit Halogen-HOX Experiment (GSHOX). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10833-10839. | 1.9 | 6 |
| 15 | Reactive halogen chemistry in the troposphere. <i>Chemical Society Reviews</i> , 2012, 41, 6448. | 18.7 | 327 |
| 16 | Atmospheric Chemistry of Iodine. <i>Chemical Reviews</i> , 2012, 112, 1773-1804. | 23.0 | 482 |
| 17 | Climate-induced change in biogenic bromine emissions from the Antarctic marine biosphere. <i>Global Biogeochemical Cycles</i> , 2012, 26, . | 1.9 | 19 |
| 18 | Multiphase Halogen Chemistry in the Tropical Atlantic Ocean. <i>Environmental Science & Technology</i> , 2012, 46, 10429-10437. | 4.6 | 50 |

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|----|---|------|-----------|
| 19 | Uncertainties in gas-phase atmospheric iodine chemistry. <i>Atmospheric Environment</i> , 2012, 57, 219-232. | 1.9 | 41 |
| 20 | Longpath DOAS observations of surface BrO at Summit, Greenland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9899-9910. | 1.9 | 42 |
| 21 | Modeling chemistry in and above snow at Summit, Greenland – Part 1: Model description and results. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4899-4914. | 1.9 | 114 |
| 22 | HOCl and Cl ₂ observations in marine air. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7617-7628. | 1.9 | 109 |
| 23 | Source identification and budget analysis on elevated levels of formaldehyde within the ship plumes: a ship-plume photochemical/dynamic model analysis. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11969-11985. | 1.9 | 16 |
| 24 | Wider role for airborne chlorine. <i>Nature</i> , 2010, 464, 168-169. | 13.7 | 20 |
| 25 | The Influence of Stratospheric Sulphate Aerosol Deployment on the Surface Air Temperature and the Risk of an Abrupt Global Warming. <i>Atmosphere</i> , 2010, 1, 62-84. | 1.0 | 5 |
| 26 | Atmospheric chemistry in volcanic plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6594-6599. | 3.3 | 138 |
| 27 | Quantifying the contribution of marine organic gases to atmospheric iodine. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 105 |
| 28 | Ozone depletion in tropospheric volcanic plumes. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 37 |
| 29 | Atmospheric composition change – global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350. | 1.9 | 714 |
| 30 | Modelling the multiphase near-surface chemistry related to ozone depletions in polar spring. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 77-105. | 1.4 | 20 |
| 31 | The effects of volcanic eruptions on atmospheric chemistry. <i>Chemical Geology</i> , 2009, 263, 131-142. | 1.4 | 191 |
| 32 | Pollution-enhanced reactive chlorine chemistry in the eastern tropical Atlantic boundary layer. <i>Geophysical Research Letters</i> , 2009, 36, . | 1.5 | 61 |
| 33 | Sun, sea and ozone destruction. <i>Nature</i> , 2008, 453, 1195-1196. | 13.7 | 29 |
| 34 | Pollution meets sea salt. <i>Nature Geoscience</i> , 2008, 1, 292-293. | 5.4 | 28 |
| 35 | New Directions: Correspondence on ‘‘Enhancing the natural cycle to slow global warming’’. <i>Atmospheric Environment</i> , 2008, 42, 4803-4805. | 1.9 | 8 |
| 36 | A look at the CLAW hypothesis from an atmospheric chemistry point of view. <i>Environmental Chemistry</i> , 2007, 4, 379. | 0.7 | 11 |

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|----|--|-----|-----------|
| 37 | Reactive halogen chemistry in volcanic plumes. Journal of Geophysical Research, 2007, 112, . | 3.3 | 144 |
| 38 | Inorganic chlorine and bromine in coastal New England air during summer. Journal of Geophysical Research, 2007, 112, . | 3.3 | 93 |
| 39 | Reactive chlorine in the marine boundary layer in the outflow of polluted continental air: A model study. Geophysical Research Letters, 2007, 34, . | 1.5 | 61 |
| 40 | Daytime OIO in the Gulf of Maine. Geophysical Research Letters, 2007, 34, . | 1.5 | 21 |
| 41 | Seaweed, Iodine, New Particles and Atmospheric Chemistry – The Current State of Play. Environmental Chemistry, 2005, 2, 243. | 0.7 | 22 |
| 42 | Comment on "Reactions at Interfaces As a Source of Sulfate Formation in Sea-Salt Particles" (II). Science, 2004, 303, 628c-628. | 6.0 | 13 |
| 43 | Retrieved tropospheric and stratospheric BrO columns over Lauder, New Zealand. Journal of Geophysical Research, 2004, 109, . | 3.3 | 53 |
| 44 | Estimate of nitrogen oxide emissions from shipping by satellite remote sensing. Geophysical Research Letters, 2004, 31, . | 1.5 | 130 |
| 45 | Are CH ₂ O measurements in the marine boundary layer suitable for testing the current understanding of CH ₄ photooxidation?: A model study. Journal of Geophysical Research, 2002, 107, ACH 3-1. | 3.3 | 54 |
| 46 | Modeling halogen chemistry in the marine boundary layer 1. Cloud-free MBL. Journal of Geophysical Research, 2002, 107, ACH 9-1-ACH 9-16. | 3.3 | 151 |
| 47 | Modeling halogen chemistry in the marine boundary layer 2. Interactions with sulfur and the cloud-covered MBL. Journal of Geophysical Research, 2002, 107, ACH 2-1-ACH 2-12. | 3.3 | 91 |
| 48 | Bromide content of sea-salt aerosol particles collected over the Indian Ocean during INDOEX 1999. Journal of Geophysical Research, 2002, 107, INX2 31-1. | 3.3 | 33 |
| 49 | Variation of sea salt aerosol pH with relative humidity. Geophysical Research Letters, 2001, 28, 247-250. | 1.5 | 64 |
| 50 | Title is missing!. Journal of Atmospheric Chemistry, 1999, 32, 375-395. | 1.4 | 376 |
| 51 | Interaction of radiation fog with tall vegetation. Atmospheric Environment, 1999, 33, 1333-1346. | 1.9 | 45 |
| 52 | The role of BrNO ₃ in marine tropospheric chemistry: A model study. Geophysical Research Letters, 1999, 26, 2857-2860. | 1.5 | 88 |