

Sebnem Aksoyoglu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,022
citations

279798

23
h-index

265206

42
g-index

93
all docs

93
docs citations

93
times ranked

2655
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Sources of particulate-matter air pollution and its oxidative potential in Europe. <i>Nature</i> , 2020, 587, 414-419. | 27.8 | 352 |
| 2 | Online coupled regional meteorology chemistry models in Europe: current status and prospects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 317-398. | 4.9 | 271 |
| 3 | Contribution of ship emissions to the concentration and deposition of air pollutants in Europe. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1895-1906. | 4.9 | 112 |
| 4 | Presentation of the EURODELTA III intercomparison exercise "evaluation of the chemistry transport models' performance on criteria pollutants and joint analysis with meteorology. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12667-12701. | 4.9 | 109 |
| 5 | Sorption of U(VI) on granite. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1989, 134, 393-403. | 1.5 | 99 |
| 6 | A comprehensive emission inventory of biogenic volatile organic compounds in Europe: improved seasonality and land-cover. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1689-1712. | 4.9 | 89 |
| 7 | Aerosol modelling in Europe with a focus on Switzerland during summer and winter episodes. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7355-7373. | 4.9 | 73 |
| 8 | Estimates of monoterpene and isoprene emissions from the forests in Switzerland. <i>Journal of Atmospheric Chemistry</i> , 1995, 20, 71-87. | 3.2 | 66 |
| 9 | Modelling winter organic aerosol at the European scale with CAMx: evaluation and source apportionment with a VBS parameterization based on novel wood burning smog chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7653-7669. | 4.9 | 58 |
| 10 | Evaluation of European air quality modelled by CAMx including the volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10313-10332. | 4.9 | 47 |
| 11 | The weekly cycle of ambient concentrations and traffic emissions of coarse (PM ₁₀ â€“PM _{2.5}) atmospheric particles. <i>Atmospheric Environment</i> , 2011, 45, 4580-4590. | 4.1 | 43 |
| 12 | Cesium sorption on mylonite. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1990, 140, 301-313. | 1.5 | 40 |
| 13 | Impact of anthropogenic and biogenic sources on the seasonal variation in the molecular composition of urban organic aerosols: a field and laboratory study using ultra-high-resolution mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5973-5991. | 4.9 | 40 |
| 14 | Modeling of formation and distribution of secondary aerosols in the Milan area (Italy). <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 36 |
| 15 | Effects of two different biogenic emission models on modelled ozone and aerosol concentrations in Europe. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3747-3768. | 4.9 | 36 |
| 16 | Model study with UAM-V in the Milan area (I) during PIPAPO: simulations with changed emissions compared to ground and airborne measurements. <i>Atmospheric Environment</i> , 2003, 37, 4133-4147. | 4.1 | 35 |
| 17 | Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15247-15270. | 4.9 | 35 |
| 18 | Constraining a hybrid volatility basis-set model for aging of wood-burning emissions using smog chamber experiments: a box-model study based on the VBS scheme of the CAMx model (v5.40). <i>Geoscientific Model Development</i> , 2017, 10, 2303-2320. | 3.6 | 28 |

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|----|---|-----|-----------|
| 19 | Joint analysis of deposition fluxes and atmospheric concentrations of inorganic nitrogen and sulphur compounds predicted by six chemistry transport models in the frame of the EURODELTAIII project. <i>Atmospheric Environment</i> , 2017, 151, 152-175. | 4.1 | 27 |
| 20 | Low modeled ozone production suggests underestimation of precursor emissions (especially) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 <i>Chemistry and Physics</i> , 2018, 18, 2175-2198. | 4.9 | 27 |
| 21 | Volatile Organic Compounds in the Po Basin. Part B: Biogenic VOCs. <i>Journal of Atmospheric Chemistry</i> , 2005, 51, 293-315. | 3.2 | 26 |
| 22 | The impact of reducing the maximum speed limit on motorways in Switzerland to 80km h ⁻¹ on emissions and peak ozone. <i>Environmental Modelling and Software</i> , 2008, 23, 322-332. | 4.5 | 26 |
| 23 | Secondary inorganic aerosols in Europe: sources and the significant influence of biogenic VOC emissions, especially on ammonium nitrate. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7757-7773. | 4.9 | 26 |
| 24 | A model study on changes of European and Swiss particulate matter, ozone and nitrogen deposition between 1990 and 2020 due to the revised Gothenburg protocol. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13081-13095. | 4.9 | 24 |
| 25 | Secondary organic aerosol formation from smoldering and flaming combustion of biomass: a box model parametrization based on volatility basis set. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11461-11484. | 4.9 | 24 |
| 26 | Secondary aerosols in Switzerland and northern Italy: Modeling and sensitivity studies for summer 2003. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 22 |
| 27 | Sorption/desorption of Cs on clay and soil fractions from various regions of Turkey. <i>Science of the Total Environment</i> , 1988, 69, 269-296. | 8.0 | 21 |
| 28 | A photochemical modeling study of ozone and formaldehyde generation and budget in the Po basin. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 21 |
| 29 | Changes in ozone and PM _{2.5} in Europe during the period of 1990–2030: Role of reductions in land and ship emissions. <i>Science of the Total Environment</i> , 2020, 741, 140467. | 8.0 | 20 |
| 30 | Sensitivity of ozone and aerosols to precursor emissions in Europe. <i>International Journal of Environment and Pollution</i> , 2012, 50, 451. | 0.2 | 19 |
| 31 | Variability of indicator values for ozone production sensitivity: a model study in Switzerland and San Joaquin Valley (California). <i>Atmospheric Environment</i> , 2001, 35, 5593-5604. | 4.1 | 15 |
| 32 | Role of ammonia in European air quality with changing land and ship emissions between 1990 and 2030. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15665-15680. | 4.9 | 15 |
| 33 | Sorption of neptunium on clays. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1991, 149, 119-122. | 1.5 | 14 |
| 34 | Simultaneous determination of the cation exchange capacity and the exchangeable cations on marl. <i>Clay Minerals</i> , 1991, 26, 567-570. | 0.6 | 13 |
| 35 | Influence of various emission scenarios on ozone in Europe. <i>Ecological Modelling</i> , 2008, 217, 209-218. | 2.5 | 12 |
| 36 | Modeling the effect of reduced traffic due to COVID-19 measures on air quality using a chemical transport model: impacts on the Po Valley and the Swiss Plateau regions. <i>Environmental Science Atmospheres</i> , 2021, 1, 228-240. | 2.4 | 12 |

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|----|---|-----|-----------|
| 37 | EURODELTA III exercise: An evaluation of air quality models'™ capacity to reproduce the carbonaceous aerosol. <i>Atmospheric Environment: X</i> , 2019, 2, 100018. | 1.4 | 11 |
| 38 | Efficiency calibration and summation effects in gamma-ray spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1988, 125, 3-10. | 1.5 | 10 |
| 39 | Multi-parcel lagrangian model for quantification of influence of alpine air mass exchange on photo-oxidant production. <i>Atmospheric Environment</i> , 1995, 29, 2961-2976. | 4.1 | 6 |
| 40 | Solar 'œbrightening'œ impact on summer surface ozone between 1990 and 2010 in Europe 'œ a model sensitivity study of the influence of the aerosol'œ radiation interactions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9741-9765. | 4.9 | 6 |
| 41 | Unexpected vertical profiles over complex terrain due to the incomplete formulation of transport processes in the SAIMM/UAM-V air quality model. <i>Environmental Modelling and Software</i> , 2002, 17, 747-762. | 4.5 | 5 |
| 42 | Influence of biomass burning vapor wall loss correction on modeling organic aerosols in Europe by CAMx v6.50. <i>Geoscientific Model Development</i> , 2021, 14, 1681-1697. | 3.6 | 5 |
| 43 | Sorption of nickel on marl. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1992, 164, 389-396. | 1.5 | 4 |
| 44 | Modelling of Air Quality with CAMx: A Case Study in Switzerland. <i>Water, Air and Soil Pollution</i> , 2003, 3, 289-305. | 0.8 | 4 |
| 45 | CAMxRunner: a modular framework for efficient chemical transport modelling. <i>International Journal of Environment and Pollution</i> , 2012, 48, 117. | 0.2 | 3 |
| 46 | Modelling nitrogen deposition: dry deposition velocities on various land-use types in Switzerland. <i>International Journal of Environment and Pollution</i> , 2018, 64, 230. | 0.2 | 3 |
| 47 | Temporal variations, regional contribution, and cluster analyses of ozone and NOx in a middle eastern megacity during summertime over 2017'œ2019. <i>Environmental Science and Pollution Research</i> , 2021, , 1. | 5.3 | 3 |
| 48 | Neutron activation analysis of Turkish clays. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1986, 104, 97-102. | 1.5 | 2 |
| 49 | Ozone Source Apportionment to Quantify Local-to-Continental Source Contributions to Episodic Events in Northern Iberia. <i>Springer Proceedings in Complexity</i> , 2018, , 361-365. | 0.3 | 2 |
| 50 | Modelling nitrogen deposition: dry deposition velocities on various land-use types in Switzerland. <i>International Journal of Environment and Pollution</i> , 2018, 64, 230. | 0.2 | 2 |
| 51 | Investigating sources of surface ozone in central Europe during the hot summer in 2018: High temperatures, but not so high ozone. <i>Atmospheric Environment</i> , 2022, , 119099. | 4.1 | 2 |
| 52 | Contribution of Ship Emissions to the Concentration and Deposition of Pollutants in Europe: Seasonal and Spatial Variation. <i>Springer Proceedings in Complexity</i> , 2016, , 265-270. | 0.3 | 1 |
| 53 | Chapter 2.1 Modeling of secondary aerosols in Switzerland in summer 2003. <i>Developments in Environmental Science</i> , 2007, 6, 75-84. | 0.5 | 0 |
| 54 | A Model Study on the Effects of Emission Reductions on European Air Quality Between 1990 and 2020. <i>Springer Proceedings in Complexity</i> , 2014, , 275-280. | 0.3 | 0 |

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|----|--|-----|-----------|
| 55 | Modelling Organic Aerosol in Europe: Application of the CAMx Model with a Volatility Basis Set Within the Eurodelta III Exercise. Springer Proceedings in Complexity, 2016, , 11-15. | 0.3 | 0 |
| 56 | The Impact of "Brightening" on Surface O3 Concentrations over Europe Between 1990 and 2010. Springer Proceedings in Complexity, 2018, , 31-36. | 0.3 | 0 |
| 57 | Effects of Using Two Different Biogenic Emission Models on Ozone and Particles in Europe. Springer Proceedings in Complexity, 2020, , 29-34. | 0.3 | 0 |
| 58 | Contribution of Biogenic Emissions to Carbonaceous Aerosols in Summer and Winter in Switzerland: A Modelling Study. NATO Security Through Science Series C: Environmental Security, 2008, , 101-108. | 0.1 | 0 |
| 59 | Role of Organic Aerosol Chemistry Schemes on Particulate Matter Modeling in Europe. Springer Proceedings in Complexity, 2021, , 3-9. | 0.3 | 0 |
| 60 | Same Model (CAMx6.50), Same Year (2010), Two Different European Projects: How Similar Are the Results?. Springer Proceedings in Complexity, 2021, , 95-100. | 0.3 | 0 |