Andrea Baccarini

List of Publications by Citations

24 papers	506 citations	11 h-index	22 g-index
47 ext. papers	808 ext. citations	10.3 avg, IF	2.78 L-index

#	Paper	IF	Citations
24	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. *Science Advances*, **2018**, 4, eaau5363	14.3	105
23	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9122-9127	11.5	73
22	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. *Nature*, **2020**, 581, 184-189	50.4	72
21	Overview of the Antarctic Circumnavigation Expedition: Study of Preindustrial-like Aerosols and Their Climate Effects (ACE-SPACE). *Bulletin of the American Meteorological Society*, **2019**, 100, 2260-2283	6.1	35
20	Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions. *Nature Communications*, **2020**, 11, 4924	17.4	35
19	Molecular understanding of new-particle formation from <i></i>-pinene between and +25 C. *Atmospheric Chemistry and Physics*, **2020**, 20, 9183-9207	6.8	32
18	Role of iodine oxoacids in atmospheric aerosol nucleation. *Science*, **2021**, 371, 589-595	33.3	31
17	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. *Environmental Science & Technology*, **2020**, 54, 7911-7921	10.3	26
16	Enhanced growth rate of atmospheric particles from sulfuric acid. *Atmospheric Chemistry and Physics*, **2020**, 20, 7359-7372	6.8	21
15	Molecular understanding of the suppression of new-particle formation by isoprene. *Atmospheric Chemistry and Physics*, **2020**, 20, 11809-11821	6.8	16
14	The value of remote marine aerosol measurements for constraining radiative forcing uncertainty. *Atmospheric Chemistry and Physics*, **2020**, 20, 10063-10072	6.8	11
13	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. *Aerosol Science and Technology*, **2021**, 55, 231-242	3.4	8
12	The driving factors of new particle formation and growth in the polluted boundary layer. *Atmospheric Chemistry and Physics*, **2021**, 21, 14275-14291	6.8	8
11	Insights into the molecular composition of semi-volatile aerosols in the summertime central Arctic Ocean using FIGAERO-CIMS. *Environmental Science Atmospheres*, **2021**, 1, 161-175		7
10	Low-Volatility Vapors and New Particle Formation Over the Southern Ocean During the Antarctic Circumnavigation Expedition. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD035126	4.4	3
9	New Insights Into the Composition and Origins of Ultrafine Aerosol in the Summertime High Arctic. *Geophysical Research Letters*, **2021**, 48, e2021GL094395	4.9	3
8	The driving factors of new particle formation and growth in the polluted boundary layer		3

List of Publications

7	Sources, Occurrence and Characteristics of Fluorescent Biological Aerosol Particles Measured Over the Pristine Southern Ocean. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD034811	4.4	2
6	Molecular characterization of ultrafine particles using extractive electrospray time-of-flight mass spectrometry. *Environmental Science Atmospheres*, **2021**, 1, 434-448		2
5	Progress in Unraveling Atmospheric New Particle Formation and Growth Across the Arctic. *Geophysical Research Letters*, **2021**, 48, e2021GL094198	4.9	2
4	Molecular understanding of new-particle formation from alpha-pinene between −50 °C and 25 °C **2020**,		1
3	Molecular understanding of the suppression of new-particle formation by isoprene **2020**,		1
2	Enhanced growth rate of atmospheric particles from sulfuric acid **2019**,		1
1	Exploring the coupled ocean and atmosphere system with a data science approach applied to observations from the Antarctic Circumnavigation Expedition. *Earth System Dynamics*, **2021**, 12, 1295-1369	4.8	0