

Curriculum vitae

Maria Cristina Facchini



Dati Personali

data di nascita	19 aprile 1960
nazionalità	Italiana
indirizzo (lavoro)	Istituto di Scienze dell'Atmosfera e del Clima - CNR Via Gobetti 101, 40129 Bologna
telefono	051 639 9563
cellulare	347 0418165
fax	051 639 9647
e-mail	mc.facchini@isac.cnr.it
pagina web	http://www.isac.cnr.it/it/users/maria-cristina-facchini
ORCID ID	0000-0003-4833-9305

Istruzione e formazione

1985	Laurea in Chimica - Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università degli Studi di Bologna (votazione 110/110 e lode).
------	--

Posizioni ricoperte

2018-presente	Direttore - Istituto di Scienze dell'Atmosfera e del Clima - CNR.
2007-2018	Dirigente di Ricerca - Istituto di Scienze dell'Atmosfera e del Clima - CNR.
2001-2006	Primo Ricercatore - Istituto di Scienze dell'Atmosfera e dell'Oceano - CNR.
1996-2000	Ricercatore - Istituto di Fisica e Chimica della Bassa e della Alta Atmosfera - CNR.
1992-1995	Dirigente di Laboratorio - Agenzia Regionale Prevenzione e Ambiente della Regione Emilia Romagna.
1987-1991	Borsista - Istituto di Fisica e Chimica della Bassa e della Alta Atmosfera - CNR.

1986 Borsista – Dipartimento di Chimica – Università di Bologna.

Responsabilità Istituzionali

- 2015-presente Coordinatore della tematica del Dipartimento Scienze del Sistema Terra e Tecnologie per l'Ambiente (DTTA) "Cambiamenti globali e cicli biogeochimici: dinamiche, impatti e mitigazione".
- 2016-presente Coordinatore del Programma di Ricerca ISAC: Sorgenti, Trasformazione e deposizione di cOmPosti antropici e naturali ed intERazioni qualità dell'aria-clima (STOPPER).
- 2010-2015 Coordinatore della Commessa del Dipartimento Terra e Ambiente "Composizione dell'atmosfera: osservazioni e processi dalla scala locale alla scala globale".
- 2010-2016 Responsabile Scientifico delle attività di Ricerca della Stazione Meteorologica "G. Fea" di San Pietro Capofiume.

Riconoscimenti e premi

- 2017 Insignita dal Presidente della Repubblica dell'onorificenza di Commendatore dell'Ordine "Al merito della Repubblica Italiana".
- 2014 *Highly Cited Researcher*, valutata da Thomson Reuters fra l'1% degli scienziati più citati al mondo nel campo delle Geoscienze.
- 2014 Vincitrice del *Haagen-Smit Prize*, attribuito annualmente a una pubblicazione di importante rilievo pubblicato sulla rivista *Atmospheric Environment*, come co-autore del lavoro: Putaud, J.-P. et al., A European aerosol phenomenology - 2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe, *Atmos. Environ.*, **38**, 2579-2595, 2004.

Competenze scientifiche e professionali

Il principale interesse scientifico è nel campo dei processi chimici e fisici nel sistema Terra e dei loro effetti sui cambiamenti nella composizione dell'atmosfera e sul clima.

Nel corso della carriera ha aperto alcuni importanti campi di ricerca nei quali è oggi considerata fra i massimi esperti internazionali: l'aerosol organico e i suoi effetti sulla formazione delle nubi, il contributo di composti organici derivanti dall'attività biologica dell'oceano all'aerosol marino, una metodolgia di

semplificazione della composizione chimica organica nell'aerosol che oggi è alla base delle parametrizzazioni dell'aerosol organico in modelli regionali e globali.

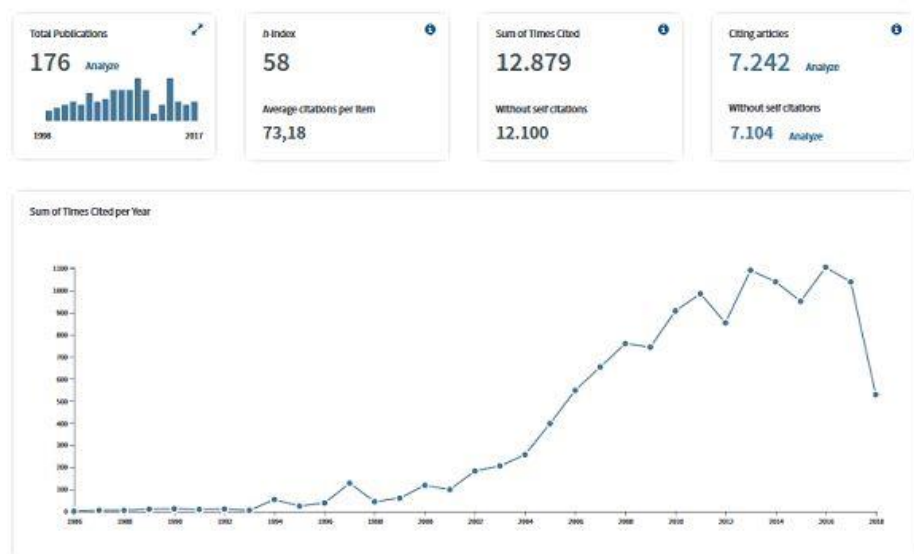
Grazie a questi risultati gestisce oggi un grande numero di collaborazioni scientifiche con i maggiori gruppi europei e statunitensi nel campo delle scienze dell'atmosfera e del clima. Questo è evidenziato dalle collaborazioni nella vasta e qualificata produzione scientifica, dall'elevato numero di presentazioni a invito nei principali convegni del settore e dal grande numero di progetti scientifici ai quali ha preso parte.

In virtù della competenza su molte delle problematiche inerenti alla scienza del Sistema Terra è stata chiamata a fare parte di diverse Commissioni di lavoro internazionali, dettagliate più sotto, nell'ambito della sintesi dei risultati e della pianificazione della ricerca sui cambiamenti globali.

Dati bibliometrici sulla produzione scientifica

È autrice di oltre 170 lavori su riviste e libri internazionali, inclusi vari contributi a *Nature*, *Science* e *PNAS*, e di oltre 300 comunicazioni (in molti casi a invito) a convegni internazionali e nazionali.

Il numero delle citazioni ricevute ammonta al luglio 2018 a più di 12,000 con un fattore di Hirsch (*h-factor*) di 58 (ISI).



Management della ricerca scientifica

Ha un'ampia e profonda conoscenza del sistema ricerca nazionale, europeo e internazionale e della sua gestione grazie all'attività svolta come *Principal Investigator* di progetti finanziati da Commissione Europea, Ministero Università e Ricerca, Ministero Ambiente, Enti Locali, e per fare/avere fatto parte di diversi organismi di promozione e coordinamento della ricerca europea e internazionale nel campo delle scienze dei cambiamenti globali e del clima.

Di particolare rilievo in questo ambito:

- | | |
|---------------|---|
| 2015-presente | Membro dello <i>Scientific Steering Committee</i> dell' <i>International Surface Ocean-Lower Atmosphere Study Project</i> (SOLAS). |
| 2014-presente | Membro dell' <i>International Commission on Atmospheric Chemistry and Global Pollution</i> (CACGP). |
| 2011-presente | Membro dello <i>Scientific Advisory Board</i> del <i>Max Plank Institute for Chemistry</i> di Mainz, Germany. |
| 2010-2013 | <i>Lead Author</i> nella stesura del 5 th <i>Assessment Report</i> dell' <i>Intergovernmental Panel for Climate Change</i> (IPCC): " <i>Climate Change - The Physical Science Basis</i> ", che è stato completato a fine 2013. |
| 2009-presente | Membro del <i>Council of the European Geochemistry Society</i> (EGS). |
| 2008-2011 | Membro dello <i>Scientific Steering Committee</i> dell'Associazione Italiana dell'Aerosol (IAS). |
| 2009-2012 | Membro dello <i>Scientific Steering Committee</i> dell' <i>International Global Atmospheric Chemistry Programme</i> (IGAC). |
| 2006-presente | Membro dell' <i>International Committee on Nucleation and Atmospheric Aerosols</i> (ICNAA) |

Principal Investigator di progetti nazionali e internazionali

- | | |
|-------------|---|
| 2017-2020 | Progetto SIN ABBACO: "Restauro Ambientale e Balneabilità del SIN Bagnoli-Coroglio". |
| 2015-2017 | Laboratorio Congiunto CNR AIR SEA LAB " <i>Climate Air Pollution Interaction in Coastal Environment</i> ". |
| 2013-2017 | Progetto Europeo BACCHUS " <i>Impact of biogenic versus anthropogenic emissions on clouds and climate: towards an holistic understanding</i> ". |
| 2011 - 2014 | Progetto Europeo PEGASOS " <i>Pan-European gas-aerosol-climate</i> |

- interaction study*".
- 2010 - 2014 Progetto Regione Emilia Romagna Supersito "Studio integrato dell'inquinamento atmosferico nella Regione Emilia Romagna mediante misure di parametri chimici, fisici e tossicologici e valutazione degli impatti sanitari epidemiologici ed ambientali".
- 2010 - 2011 Progetto Premiale CNR "Assessment of health effects of the chemical composition of ultrafine and fine particles in Italy".
- 2007-2010 Progetto Europeo EUCAARI "European Integrated Project on Aerosol, Cloud Climate Aerosol Interaction".
- 2006-2011 Programma FISR "Sustainable Development and Climate Changes. Sottoprogetto - Study of the direct and indirect effects of aerosols and clouds on climate (AEROCLOUDS)".
- 2005-2009 Progetto Europeo MAP "Marine Aerosol Production: Primary & Secondary Marine Aerosol Production from Natural Sources".
- 2005-2007 Progetto Europeo POLYSOA "Polymers in Secondary Organic Aerosols".
- 2003 - 2004 Progetti dell'University of Manchester "Tropospheric Organic Chemistry Experiment" e "Cloud Processing of Regional Air Pollution advecting over land".
- 2002 -2005 Progetto Europeo PHOENICS "Particles of Human Origin Extinguishing Natural solar radiation In Climate Systems".
- 2001 - 2004 Progetto Europeo QUEST "Quantification of Aerosol Nucleation in the European Boundary Layer".
- 2001 Progetti dell'University of Manchester "Understanding cloud-aerosol interactions in ACE-Asia".
- 2001 Progetto CESI "Indagini sperimentali per la caratterizzazione di concentrazioni/deposizioni. Caratterizzazione dell'aerosol atmosferico".
- 2000 - 2001 Progetto ARPA Emilia Romagna "Meccanismi chimici per modelli della qualità dell'aria".
- 2000 - 2001 Progetto CESI "Analisi dei fenomeni di formazione ed accrescimento degli aerosol in atmosfera".
- 2000 Progetto CNR Agenzia 2000 "Microclima urbano e rurale - dinamica, processi di formazione e reattività di microinquinanti e di aerosol in atmosfere complesse".

Valutazione della ricerca

Ha una lunga esperienza di valutazione della ricerca scientifica internazionale per diverse organizzazioni internazionali, fra le quali:

- *European Commission – Directorate General Research*
- *European Research Council (ERC)*
- *US National Science Foundation (NSF)*
- *US National Oceanic and Atmospheric Administration (NOAA)*
- *Agence Nationale de la Recherche (France)*
- *Swedish Research Council*
- *Finnish Academy of Sciences*

Fa inoltre parte del *Review Panel* dell'*European Research Council*, PE10–*Earth System Science, Consolidator Grant*.

Attività didattica

Tutor di 5 tesi di Laurea e 7 tesi di Dottorato in Chimica ed in Scienze Ambientali presso le Università di Urbino e Bologna dove è membro del Consiglio di Dottorato.

Ha tenuto lezioni in diverse Università italiane e straniere.

Competenze linguistiche

(Quadro di riferimento europeo)

madrelingua

Italiano

inglese

Comprensione: C1 (utente avanzato); Parlato: C1 (utente avanzato); Scritto: C1 (utente avanzato).

Attività editoriali

2016-oggi

Membro del Comitato editoriale della rivista *Sapere*.

2009-oggi

Membro dell'*Editorial Board* della rivista *Atmospheric Chemistry and Physics*.

2001-2007

Membro dell'*Editorial Board* della rivista *Atmospheric Environment*.

Appartenenza a Società Scientifiche

- Associazione Gruppo 2003 per la Ricerca Scientifica.
- *European Association for Geochemistry (EAG)*.
- *European Geophysical Union (EGU)*.
- *American Aerosol Society (AAS)*.
- Società Italiana dell'Aerosol (IAS).

– *American Geophysical Union (AGU)*

Altri Incarichi

- | | |
|---------------|---|
| 2018 | Membro dell'Executive Committee di <i>Atmospheric Chemistry and Physics</i> |
| 2017 | Membro del Comitato Scientifico dell'ENI Award. |
| 2014-presente | Membro del <i>Geochemical Fellows Committee</i> della <i>Geochemical Society</i> . |
| 2014 | Membro del <i>Review Panel</i> dell' <i>Earth System Research Laboratory, Chemical Sciences Division, National Oceanic and Atmospheric Administration, Boulder, Colorado, USA</i> . |
| 2013 | Membro del <i>Panel of Judges, Nature Awards for Mentoring in Science</i> . |

Allegato 1

Elenco pubblicazioni su riviste internazionali (ISI)

1. Rastelli E., C.Corinaldesi, A.Dell'Anno, M.Lo Martire, S.Greco, M.C.Facchini, M.Rinaldi, C.O'Dowd, D.Ceburnis, and R.Danovaro. "Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach". *Scientific Reports* 7, Article number: 11475 (2017) doi:10.1038/s41598-017-10563-z
2. Ovadnevaite J., Zuend A., Laaksonen A., Sanchez K.J., Roberts G., Ceburnis D., Decesari S., Rinaldi M., Hodas N., Facchini M.C., Seinfeld J.H. and O' Dowd C.. " Surface Tension Prevails Over Solute-Effect in Organic-Influenced Cloud Droplet Activation". *Nature* 546, 637–641, June 22, 2017
3. Costabile F., H.Alas, M.Aufderheide, P.Avino, F.Amato, S.Argentini, F.Barnaba, M.Berico, V.Bernardoni, R.Biondi, G.Calzolai, S.Canepari, G.Casasanta, S.Ciampichetti, A.Conidi, E.Cordelli, A.Di Ianni, L.Di Liberto, M.C.Facchini, A.Facci, D.Frasca, S.Gilardoni, M.G.Grollino, M.Gualtieri, F.Lucarelli, A.Malaguti, M.Manigrasso, M.Montagnoli, S.Nava, E.Padoan, C.Perrino, E.Petralia, I.Petenko, X.Querol, G.Simonetti, G.Tranfo, S.Ubertini, G.Valli, S.Valentini, R.Vecchi, F.Volpi, K.Weinhold, A.Wiedensholer, G.Zanini, G.P.Gobbi First results of the "Carbonaceous aerosol in Rome and Environs (CARE)" experiment: beyond current standards for PM10; *Atmosphere*; 2017, 8(12), 249; doi:10.3390/atmos8120249
4. Dall'Osto M., J. Ovadnevaite, M. Paglione, D. C. S. Beddows, D. Ceburnis, C. Cree, P. Cortés, M. Zamanillo, S. O. Nunes, G. L. Pérez, E. Ortega-Retuerta, M. Emelianov, D. Vaqué, C. Marrasé, M. Estrada, M. M. Sala, M. Vidal, M. F. Fitzsimons, R. Beale, R. Airs, M. Rinaldi, S. Decesari, M.C. Facchini, R. M. Harrison, C. O'Dowd & R. Simó. "Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols". *ScientificReports* 7:6047 DOI:10.1038/s41598-017-06188; 2017
5. Decesari S., Sowlat M.H., Hasheminassab S., Sandrini S., Gilardoni S., Facchini M.C., Fuzzi S., Sioutas C., Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. *Atmos. Chem. Phys.*, 17, 7721–7731, 2017
6. Costabile, F., Gilardoni, S., Barnaba, F., Di Ianni, A., Di Liberto, L., Dionisi, D., Manigrasso, M., Paglione, M., Poluzzi, V., Rinaldi, M., Facchini, M. C., and Gobbi, G. P.: Characteristics of an aged organic "brown" aerosol in the urban Po Valley atmosphere, *Atmos. Chem. Phys.*, 17, 313-326, 2017
7. Kirillova, EN; Marinoni, A; Bonasoni, P; Vuillermoz, E; Facchini, MC; Fuzzi, S; Decesari, S "Light absorption properties of brown carbon in the high Himalayas" *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 121 (16):9621-9639; 10.1002/2016JD025030 AUG 27 2016
8. Sandrini, S., D. van Pinxteren, L. Giulianelli, H. Herrmann, L. Poulain, M.C. Facchini, S. Gilardoni, M. Rinaldi, M. Paglione, S. Decesari, Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation. *ATMOSPHERIC CHEMISTRY AND PHYSICS* Volume: 16 Issue: 17 Pages: 10879-10897; 2016

9. Gilardoni S., Massoli P., Paglione M., Giulianelli L., Carbone C., Rinaldi M., Decesari S., Sandrini S., Costabile F., Gobbi G.P., Pietrogrande M.C., Visentin M., Scotto F., Fuzzi S., Facchini M.C.; Direct observation of aqueous secondary organic aerosol from biomass-burning emissions; *PROC NATL ACAD SCI U S A*; pii: 201602212; DOI: 10.1073/pnas.1602212113; 2016
10. Sullivan, A.P., N. Hodas, B.J. Turpin, K Skog, F.N. Keutsch, S. Gilardoni, M. Paglione, M. Rinaldi, S. Decesari, M.C. Facchini, L. Poulain, H. Herrmann, A. Wiedensohler, E. Nemitz, M.M. Twigg, and J.L. Collett, Jr.; Evidence for Ambient Dark Aqueous SOA Formation in the Po Valley, Italy; *Atmos. Chem. Phys.*; 16; 8095; 8108; 2016
11. Rosati, B.; Gysel, M.; Rubach, F.; Mentel, T.F.; Goger, B.; Poulain, L.; Schlag, P.; Miettinen, P.; Pajunoja, A.; Virtanen, A.; Baltink, H.K.; Henzing, J.S.B.; Groß, J.; Gobbi, G.P.; Wiedensohler, A.; Kiendler-Scharr, A.; Decesari, S.; Facchini, M.C.; Weingartner, E.; Baltensperger, U.; Vertical profiling of aerosol hygroscopic properties in the planetary boundary layer during the PEGASOS campaigns; *ATMOS. CHEM. PHYS.*; 16; 7295; 7315; 2016
12. O'Dowd, C.D., D. Ceburnis, J. Ovadnevaite, J. Bialek, D. B. Stengel, M. Zacharias, U. Nitschke, S. Connan, M. Rinaldi, S. Fuzzi, S. Decesari, M. C. Facchini, S. Marullo, R. Santoleri, A. Dell'Anno, C. Corinaldesi, M. Tangherlini and R. Danovaro; Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?; *SCIENTIFIC REPORTS*; 5; 14883; 2015
13. Curci, G., Ferrero, L., Tuccella, P., Barnaba, F., Angelini, F., Bolzacchini, E., Carbone, C., Denier Van Der Gon, H.A.C., Facchini, M.C., Gobbi, G.P., Kuenen, J.P.P., Landi, T.C., Perrino, C., Perrone, M.G., Sangiorgi, G., Stocchi, P.; How much is particulate matter near the ground influenced by upper-level processes within and above the PBL? A summertime case study in Milan (Italy) evidences the distinctive role of nitrate; *ATMOS. CHEM. PHYS.*; 15; 5; 2629; 2649; 2015 ."
14. Fuzzi S.; Baltensperger, U.; Carslaw, K.; Decesari, S.; Denier Van Der Gon, H.; Facchini, M.C.; Fowler, D.; Koren, I.; Langford, B.; Lohmann, U.; Nemitz, E.; Pandis, S.; Riipinen, I.; Rudich, Y.; Schaap, M.; Slowik, J.G.; Spracklen, D.V.; Vignati, E.; Wild, M.; Williams, M.; Gilardoni, S.; Particulate matter, air quality and climate: lessons learned and future needs; *ATMOS. CHEM. PHYS.*; 15; 14; 8217; 8299; 2015
15. Rinaldi M., Gilardoni S., Paglione M., Decesari S., Sandrini S., Fuzzi S., Massoli P., Bonasoni P., Cristofanelli P., Marinoni A., Poluzzi V., and Facchini M. C.; Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign; *ATMOS. CHEM. PHYS.*; 15; 19; 11327; 11340; 2015
16. Fowler, D.; Steadman, C.E.; Stevenson, D.; Coyle, M.; Rees, R.M.; Skiba, U.M.; Sutton, M.A.; Cape, J.N.; Dore, A.J.; Vieno, M.; Simpson, D.; Zaehle, S.; Stocker, B.D.; Rinaldi, M.; Facchini, M.C.; Flechard, C.R.; Nemitz, E.; Twigg, M.; Erismann, J.W.; Butterbach-Bahl, K.; Galloway, J.N.; Effects of global change during the 21st century on the nitrogen cycle; *ATMOS. CHEM. PHYS.*; 15; 24; 13849; 13893; 2015
17. Dall'Osto, M., M. Paglione, S. Decesari, M. C. Facchini, C. O'Dowd, C. Plass-Dülmer, Roy M. Harrison; On the origin of AMS "cooking organic aerosol" at a rural site; *ENVIRON. SCI. TECHNOL.*; 49; 24; 13964; 13972; 2015
18. Sandrini, S., Giulianelli, L., Decesari, S., Fuzzi, S., Cristofanelli, P., Marinoni, A., Bonasoni, P., Chiari, M., Calzolari, G., Canepari, S., Perrino, C., Facchini, M.C.; In situ physical and chemical characterisation of the Eyjafjallajökull aerosol plume in the

- free troposphere over Italy; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 2; 1075; 1092; 2014
19. Carbone C., Decesari S., Paglione M., Giulianelli L., Rinaldi M., Marinoni A., Cristofanelli P., Didiodato A., Bonasoni P., Fuzzi S., Facchini M.C.; 3-year chemical composition of free tropospheric PM₁ at the Mt. Cimone GAW global station – South Europe – 2165 m a.s.l.; *ATMOSPHERIC ENVIRONMENT*; 87; 218; 227; 2014
 20. Paglione M., A. Kiendler-Scharr, A. A. Mensah, E. Finessi, L. Giulianelli, S. Sandrini, M. C. Facchini, S. Fuzzi, P. Schlag, A. Piazzalunga, E. Tagliavini, J. S. Henzing, and S. Decesari; Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques; *ATMOS. CHEM. PHYS.*; 14; 25; 45; 2014
 21. Martínez G.M., M. Rinaldi, S. Gilardoni, L. Giulianelli, M. Paglione, S. Decesari, S. Fuzzi, M.C. Facchini; On the water-soluble organic nitrogen concentration and mass size distribution during the fog season in the Po Valley, Italy; *SCIENCE OF THE TOTAL ENVIRONMENT*; 485–486; 103; 109; 2014
 22. Paglione M., S. Saarikoski, S. Carbone, R. Hillamo, M. C. Facchini, E. Finessi, L. Giulianelli, C. Carbone, S. Fuzzi, F. Moretti, E. Tagliavini, E. Swietlicki, K. Eriksson Stenström, A. S. H. Prévôt, P. Massoli, M. Canaragatna, D. Worsnop, and S. Decesari; Primary and secondary biomass burning aerosols determined by proton nuclear magnetic resonance (¹H-NMR) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy); *ATMOS. CHEM. PHYS.*; 14; 5089; 5110; 2014
 23. Gilardoni S., P. Massoli, L. Giulianelli, M. Rinaldi, M. Paglione, F. Pollini, C. Lanconelli, V. Poluzzi, S. Carbone, R. Hillamo, L. M. Russell, M. C. Facchini, and S. Fuzzi; Fog scavenging of organic and inorganic aerosol in the Po Valley; *ATMOS. CHEM. PHYS.*; 14; 13; 6967; 6981; 2014
 24. Giulianelli L., S. Gilardoni, L. Tarozzi, M. Rinaldi, S. Decesari, C. Carbone, M.C. Facchini, S. Fuzzi; Fog occurrence and chemical composition in the Po valley over the last twenty years; *ATMOSPHERIC ENVIRONMENT*; 98; 394; 401; 2014
 25. O'Dowd C.D., D. Ceburnis, J. Ovadnevaite, Vaishya A., M. Rinaldi, and M. C. Facchini; Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?; *ATMOS. CHEM. PHYS.*; 14; 10687; 10704; 2014
 26. Hodas, N., Sullivan, A.P., Skog, K., Keutsch, F.N., Collett, J.L., Decesari, S., Facchini, M.C., Carlton, A.G., Laaksonen, A., Turpin, B.J., Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation; *ENVIRONMENTAL SCIENCE AND TECHNOLOGY*; 48;19; 11127; 11136; 2014
 27. Decesari, S.; Allan, J.; Plass-Duelmer, C.; Williams, B.J.; Paglione, M.; Facchini M.C.; O'Dowd, C.; Harrison, R.M.; Gietl, J.K.; Coe, H.; Giulianelli, L.; Gobbi G.P.; Lanconelli, C.; Carbone, C.; Worsnop, D.; Lambe, A.T.; Ahern, A.T.; Moretti, F.; Tagliavini, E.; Elste, T.; Gilge, S.; Zhang, Y.; Dall'Osto, M.; Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques; *ATMOS. CHEM. PHYS.*; 14; 12109; 12132; 2014
 28. K. Saarnio, K. Teinilä, S. Saarikoski, S. Carbone, S. Gilardoni, H. Timonen, M. Aurela, and R. Hillamo; Online determination of levoglucosan in ambient aerosols with Particle-into-Liquid Sampler – High-Performance Anion-Exchange Chromatography – Mass Spectrometry (PILS-HPAEC-MS); *ATMOS. MEAS. TECH.*; 6; 2839; 2849; 2013

29. Rinaldi, M., Fuzzi, S., Decesari, S., Marullo, S., Santoleri, R., Provenzale, A., Von Hardenberg, J., Ceburnis, D., Vaishya, A., O'Dowd, C.D., Facchini, M.C.; Is chlorophyll-a the best surrogate for organic matter enrichment in submicron primary marine aerosol?; JOURNAL OF GEOPHYSICAL RESEARCH D: ATMOSPHERES; 118; 10; 4964; 4973; 2013
30. Landi, T.C., Curci, G., Carbone, C., Menuet, L., Bessagnet, B., Giulianelli, L., Paglione, M., Facchini, M.C.; Simulation of size-segregated aerosol chemical composition over northern Italy in clear sky and wind calm conditions; ATMOSPHERIC RESEARCH; 125-126; 1; 11; 2013
31. Meskhidze, N., Petters, M.D., Tsigaridis, K., Bates, T., O'Dowd, C., Reid, J., Lewis, E.R., Gantt, B., Anguelova, M.D., Bhawe, P.V., Bird, J., Callaghan, A.H., Ceburnis, D., Chang, R., Clarke, A., de Leeuw, G., Deane, G., Demott, P.J., Elliot, S., Facchini, M.C., Fairall, C.W., Hawkins, L., Hu, Y., Hudson, J.G., Johnson, M.S., Kaku, K.C., Keene, W.C., Kieber, D.J., Long, M.S., Mårtensson, M., Modini, R.L., Osburn, C.L., Prather, K.A., Pszenny, A., Rinaldi, M., Russell, L.M., Salter, M., Sayer, A.M., Smirnov, A., Suda, S.R., Toth, T.D., Worsnop, D.R., Wozniak, A., Zorn, S.R.; Production mechanisms, number concentration, size distribution, chemical composition, and optical properties of sea spray aerosols; ATMOSPHERIC SCIENCE LETTERS; 14; 4; 207; 213; 2013
32. Hamed, A., Decesari, S., Tarozzi, L., Carbone, C., Miettinen, P., Joutsensaari, J., Virtanen, A., Poluzzi, V., Facchini, M.C., Laaksonen; A New particle formation at Po-Valley during PEGASOS campaign; AIP CONFERENCE PROCEEDINGS; 1527; 226; 229; 2013
33. Ovadnevaite, J., Ceburnis, D., Martucci, G., Bialek, J., Monahan, C., Rinaldi, M., Facchini, M.C., O'Dowd, C.; A dual behavior of primary marine organics; AIP CONFERENCE PROCEEDINGS; 1527; 714; 717; 2013
34. Manninen, H.E., Mirme, S., Ehn, M., Leino, K., Schobesberger, S., Junninen, H., Järvinen, E., Kangasluoma, J., Nieminen, T., Tillmann, R., Angelini, F., Gobbi, G.P., Mirme, A., Decesari, S., Wahner, A., Petäjä, T., Worsnop, D.R., Rohrer, F., Mentel, T.F., Kulmala, M.; Does the onset of new particle formation occur in the planetary boundary layer?; AIP CONFERENCE PROCEEDINGS; 1527; 567; 570; 2013
35. Saarikoski, S.; Carbone, S.; Decesari, S.; Giulianelli, L.; Angelini, F.; Canagaratna, M.; Ng, N. L.; Trimborn, A.; Facchini, M. C.; Fuzzi, S.; Hillamo, R.; Worsnop, D.; Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy ATMOSPHERIC CHEMISTRY AND PHYSICS; 12; 18; 8401; 8421; 2012
36. Finessi, E.; Decesari, S.; Paglione, M.; Giulianelli, L.; Carbone, C.; Gilardoni, S.; Fuzzi, S.; Saarikoski, S.; Raatikainen, T.; Hillamo, R.; Allan, J.; Mentel, Th. F.; Tiitta, P.; Laaksonen, A.; Petaja, T.; Kulmala, M.; Worsnop, D. R.; Facchini, M. C.; Determination of the biogenic secondary organic aerosol fraction in the boreal forest by NMR spectroscopy ATMOSPHERIC CHEMISTRY AND PHYSICS; 12; 2; 941; 959; 2012
37. Decesari, S.; Finessi, E.; Rinaldi, M.; Paglione, M.; Fuzzi, S.; Stephanou, E. G.; Tziaras, T.; Spyros, A.; Ceburnis, D.; O'Dowd, C.; Dall'Osto, M.; Harrison, R. M.; Allan, J.; Coe, H.; Facchini, M. C.; Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 116D22210; 2011
38. Ovadnevaite, Jurgita; Ceburnis, Darius; Martucci, Giovanni; Bialek, Jakub; Monahan, Ciaran; Rinaldi, Matteo; Facchini, Maria Cristina; Berresheim, Harald; Worsnop, Douglas R.; O'Dowd, Colin; Primary marine organic aerosol: A dichotomy of low

hygroscopicity and high CCN activity GEOPHYSICAL RESEARCH LETTERS; 38L21806; 2011

39. Facchini, Maria Cristina; Decesari, Stefano; Finessi, Emanuela; Rinaldi, Matteo; Paglione, Marco; Fuzzi, Sandro; Stephanou, Euripides; Tziaras, T.; Spyros, A.; Ceburnis, Darius; O'Dowd, Colin D.; Primary and secondary marine organic aerosols over the North Atlantic Ocean ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY; 242; 2011
40. Thalman, Ryan; Waxman, Eleanor; Albert, Monique; Alfarra, Rami; Ball, Stephen; Ceburnis, Darius; de Leeuw, Garrit; Facchini, Maria Christina; Fuentes-Lopez, Elena; Goodall, Iain; Hamilton, Jacqui; McFiggans, Gordon; Monk, Paul; O'Dowd, Colin; Rinaldi, Matteo; White, Iain; Volkamer, Rainer; Heterogeneous oxidation of bulk seawater and aerosol phase algae exudate solutions with ozone and OH-radicals: Product studies and aerosol hygroscopic properties ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY; 242; 2011
41. Rinaldi, Matteo; Decesari, Stefano; Carbone, Claudio; Finessi, Emanuela; Fuzzi, Sandro; Ceburnis, Darius; O'Dowd, Colin D.; Sciare, Jean; Burrows, John P.; Vrekoussis, Mihalis; Ervens, Barbara; Tsigaridis, Kostas; Facchini, Maria Cristina; Evidence of a natural marine source of oxalic acid and a possible link to glyoxal JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 116D16204; 2011
42. Kulmala, M.; Asmi, A.; Lappalainen, H. K.; Baltensperger, U.; Brenguier, J. -L.; Facchini, M. C.; Hansson, H. -C.; Hov, O.; O'Dowd, C. D.; Poeschl, U.; Wiedensohler, A.; Boers, R.; Boucher, O.; de Leeuw, G.; van der Gon, H. A. C. Denier; Feichter, J.; Krejci, R.; Laj, P.; Lihavainen, H.; Lohmann, U.; McFiggans, G.; Mentel, T.; Pilinis, C.; Riipinen, I.; Schulz, M.; Stohl, A.; Swietlicki, E.; Vignati, E.; Alves, C.; Amann, M.; Ammann, M.; Arabas, S.; Artaxo, P.; Baars, H.; Beddows, D. C. S.; Bergstrom, R.; Beukes, J. P.; Bilde, M.; Burkhardt, J. F.; Canonaco, F.; Clegg, S. L.; Coe, H.; Crumeyrolle, S.; D'Anna, B.; Decesari, S.; Gilardoni, S.; Fischer, M.; Fjaeraa, A. M.; Fountoukis, C.; George, C.; Gomes, L.; Halloran, P.; Hamburger, T.; Harrison, R. M.; Herrmann, H.; Hoffmann, T.; Hoose, C.; Hu, M.; Hyvarinen, A.; Horrak, U.; Iinuma, Y.; Iversen, T.; Josipovic, M.; Kanakidou, M.; Kiendler-Scharr, A.; Kirkevag, A.; Kiss, G.; Klimont, Z.; Kolmonen, P.; Komppula, M.; Kristjansson, J. -E.; Laakso, L.; Laaksonen, A.; Labonnote, L.; Lanz, V. A.; Lehtinen, K. E. J.; Rizzo, L. V.; Makkonen, R.; Manninen, H. E.; McMeeking, G.; Merikanto, J.; Minikin, A.; Mirme, S.; Morgan, W. T.; Nemitz, E.; O'Donnell, D.; Panwar, T. S.; Pawlowska, H.; Petzold, A.; Pienaar, J. J.; Pio, C.; Plass-Duelmer, C.; Prevot, A. S. H.; Pryor, S.; Reddington, C. L.; Roberts, G.; Rosenfeld, D.; Schwarz, J.; Seland, O.; Sellegri, K.; Shen, X. J.; Shiraiwa, M.; Siebert, H.; Sierau, B.; Simpson, D.; Sun, J. Y.; Topping, D.; Tunved, P.; Vaattovaara, P.; Vakkari, V.; Veefkind, J. P.; Visschedijk, A.; Vuollekoski, H.; Vuolo, R.; Wehner, B.; Wildt, J.; Woodward, S.; Worsnop, D. R.; van Zadelhoff, G. -J.; Zardini, A. A.; Zhang, K.; van Zyl, P. G.; Kerminen, V. -M.; Carslaw, K. S.; Pandis, S. N.; General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) - integrating aerosol research from nano to global scales ATMOSPHERIC CHEMISTRY AND PHYSICS; 11; 24; 13061; 13143; 2011
43. Ceburnis, D.; Garbaras, A.; Szidat, S.; Rinaldi, M.; Fahrni, S.; Perron, N.; Wacker, L.; Leinert, S.; Remeikis, V.; Facchini, M. C.; Prevot, A. S. H.; Jennings, S. G.; Ramonet, M.; O'Dowd, C. D.; Quantification of the carbonaceous matter origin in submicron marine aerosol by C-13 and C-14 isotope analysis ATMOSPHERIC CHEMISTRY AND PHYSICS; 11; 16; 8593; 8606; 2011

44. Gantt, B.; Meskhidze, N.; Facchini, M. C.; Rinaldi, M.; Ceburnis, D.; O'Dowd, C. D.; Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 11; 16; 8777; 8790;2011
45. Mikkonen, S.; Korhonen, H.; Romakkaniemi, S.; Smith, J. N.; Joutsensaari, J.; Lehtinen, K. E. J.; Hamed, A.; Breider, T. J.; Birmili, W.; Spindler, G.; Plass-Duelmer, C.; Facchini, M. C.; Laaksonen, A.; Meteorological and trace gas factors affecting the number concentration of atmospheric Aitken ($D_p=50$ nm) particles in the continental boundary layer: parameterization using a multivariate mixed effects model *GEOSCIENTIFIC MODEL DEVELOPMENT*; 4; 1; 1; 13;2011
46. Carbone, C.; Decesari, S.; Mircea, M.; Giulianelli, L.; Finessi, E.; Rinaldi, M.; Fuzzi, S.; Marinoni, A.; Duchi, R.; Perrino, C.; Sargolini, T.; Varde, M.; Sprovieri, F.; Gobbi, G. P.; Angelini, F.; Facchini, M. C.; Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions *ATMOSPHERIC ENVIRONMENT*; 44; 39; 5269; 5278;2010
47. Facchini, M. C.; Decesari, S.; Rinaldi, M.; Finessi, E.; Ceburnis, D.; O'Dowd, C. D.; Stephanou, E. G.; Marine SOA: Gas-to-particle conversion and oxidation of primary organic aerosol *GEOCHIMICA ET COSMOCHIMICA ACTA*; 74; 12; A275; A275;2010
48. Rinaldi, M.; Decesari, S.; Finessi, E.; Ceburnis, D.; Zacharias, M.; Connan, S.; Stengel, D. B.; O'dowd, C. D.; Facchini, M. C.; Characterization of sea spray OM from selected algal cultures *GEOCHIMICA ET COSMOCHIMICA ACTA*; 74; 12; A871; A871;2010
49. Vignati, E.; Facchini, M. C.; Rinaldi, M.; Scannell, C.; Ceburnis, D.; Sciare, J.; Kanakidou, M.; Myriokefalitakis, S.; Dentener, F.; O'Dowd, C. D.; Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment *ATMOSPHERIC ENVIRONMENT*; 44; 5; 670; 677;2010
50. Facchini, M. C.; Rinaldi, M.; Decesari, S.; Fuzzi, S.; Marine organic aerosol and biological oceanic activity *AAAS10: ADVANCED ATMOSPHERIC AEROSOL SYMPOSIUM*; Chemical Engineering Transactions 22107; 112;2010
51. Myriokefalitakis, Stelios; Vignati, Elisabetta; Tsigaridis, Kostas; Papadimas, Christos; Sciare, Jean; Mihalopoulos, Nikolaos; Facchini, Maria Cristina; Rinaldi, Matteo; Dentener, Frank J.; Ceburnis, Darius; Hatzianastasiou, Nikos; O'Dowd, Colin D.; van Weele, Michiel; Kanakidou, Maria; Global Modeling of the Oceanic Source of Organic Aerosols *ADVANCES IN METEOROLOGY*; 939171; 2010
52. Rinaldi, Matteo; Decesari, Stefano; Finessi, Emanuela; Giulianelli, Lara; Carbone, Claudio; Fuzzi, Sandro; O'Dowd, Colin D.; Ceburnis, Darius; Facchini, Maria Cristina; Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies *ADVANCES IN METEOROLOGY*; 310682; 2010
53. Decesari, S.; Facchini, M. C.; Carbone, C.; Giulianelli, L.; Rinaldi, M.; Finessi, E.; Fuzzi, S.; Marinoni, A.; Cristofanelli, P.; Duchi, R.; Bonasoni, P.; Vuillermoz, E.; Cozic, J.; Jaffrezo, J. L.; Laj, P.; Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.) *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 10; 10; 4583; 4596;2010
54. Fors, E. O.; Rissler, J.; Massling, A.; Svenningsson, B.; Andreae, M. O.; Dusek, U.; Frank, G. P.; Hoffer, A.; Bilde, M.; Kiss, G.; Janitsek, S.; Henning, S.; Facchini, M. C.; Decesari, S.; Swietlicki, E.; Hygroscopic properties of Amazonian biomass burning and European background HULIS and investigation of their effects on surface tension with two

models linking H-TDMA to CCNC dataATMOSPHERIC CHEMISTRY AND
PHYSICS; 10; 12; 5625; 5639;2010

55. Bonasoni, P.; Laj, P.; Marinoni, A.; Sprenger, M.; Angelini, F.; Arduini, J.; Bonafe, U.; Calzolari, F.; Colombo, T.; Decesari, S.; Di Biagio, C.; di Sarra, A. G.; Evangelisti, F.; Duchi, R.; Facchini, M. C.; Fuzzi, S.; Gobbi, G. P.; Maione, M.; Panday, A.; Roccato, F.; Sellegri, K.; Venzac, H.; Verza, G. P.; Villani, P.; Vuillermoz, E.; Cristofanelli, P.; Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m)ATMOSPHERIC CHEMISTRY AND PHYSICS; 10; 15; 7515; 7531;2010
56. Manninen, H. E.; Nieminen, T.; Asmi, E.; Gagne, S.; Hakkinen, S.; Lehtipalo, K.; Aalto, P.; Vana, M.; Mirme, A.; Mirme, S.; Horrak, U.; Plass-Duelmer, C.; Stange, G.; Kiss, G.; Hoffer, A.; Toeroe, N.; Moerman, M.; Henzing, B.; de Leeuw, G.; Brinkenberg, M.; Kouvarakis, G. N.; Bougiatioti, A.; Mihalopoulos, N.; O'Dowd, C.; Ceburnis, D.; Arneth, A.; Svenningsson, B.; Swietlicki, E.; Tarozzi, L.; Decesari, S.; Facchini, M. C.; Birmili, W.; Sonntag, A.; Wiedensohler, A.; Boulon, J.; Sellegri, K.; Laj, P.; Gysel, M.; Bukowiecki, N.; Weingartner, E.; Wehrle, G.; Laaksonen, A.; Hamed, A.; Joutsensaari, J.; Petaja, T.; Kerminen, V. -M.; Kulmala, M.; EUCAARI ion spectrometer measurements at 12 European sites - analysis of new particle formation eventsATMOSPHERIC CHEMISTRY AND PHYSICS; 10; 16; 7907; 7927;2010
57. Dall'Osto, M.; Ceburnis, D.; Martucci, G.; Bialek, J.; Dupuy, R.; Jennings, S. G.; Berresheim, H.; Wenger, J.; Healy, R.; Facchini, M. C.; Rinaldi, M.; Giulianelli, L.; Finessi, E.; Worsnop, D.; Ehn, M.; Mikkila, J.; Kulmala, M.; O'Dowd, C. D.; Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overviewATMOSPHERIC CHEMISTRY AND PHYSICS; 10; 17; 8413; 8435;2010
58. Paasonen, P.; Nieminen, T.; Asmi, E.; Manninen, H. E.; Petaja, T.; Plass-Duelmer, C.; Flentje, H.; Birmili, W.; Wiedensohler, A.; Horrak, U.; Metzger, A.; Hamed, A.; Laaksonen, A.; Facchini, M. C.; Kerminen, V. -M.; Kulmala, M.; On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formationATMOSPHERIC CHEMISTRY AND PHYSICS; 10; 22; 11223; 11242;2010
59. Fowler, D.; Pilegaard, K.; Sutton, M. A.; Ambus, P.; Raivonen, M.; Duyzer, J.; Simpson, D.; Fagerli, H.; Fuzzi, S.; Schjoerring, J. K.; Granier, C.; Neftel, A.; Isaksen, I. S. A.; Laj, P.; Maione, M.; Monks, P. S.; Burkhardt, J.; Daemmgen, U.; Neiryneck, J.; Personne, E.; Wichink-Kruit, R.; Butterbach-Bahl, K.; Flechard, C.; Tuovinen, J. P.; Coyle, M.; Gerosa, G.; Loubet, B.; Altimir, N.; Gruenhage, L.; Ammann, C.; Cieslik, S.; Paoletti, E.; Mikkelsen, T. N.; Ro-Poulsen, H.; Cellier, P.; Cape, J. N.; Horvath, L.; Loreto, F.; Niinemets, Ue; Palmer, P. I.; Rinne, J.; Misztal, P.; Nemitz, E.; Nilsson, D.; Pryor, S.; Gallagher, M. W.; Vesala, T.; Skiba, U.; Brüeggemann, N.; Zechmeister-Boltenstern, S.; Williams, J.; O'Dowd, C.; Facchini, M. C.; de Leeuw, G.; Flossman, A.; Chaumerliac, N.; Erismann, J. W.; Atmospheric composition change: Ecosystems-Atmosphere interactionsATMOSPHERIC ENVIRONMENT; 43; 33; 5193; 5267;2009
60. Jaatinen, Antti; Hamed, Amar; Joutsensaari, Jorma; Mikkonen, Santtu; Birmili, Wolfram; Wehner, Birgit; Spindler, Gerald; Wiedensohler, Alfred; Decesari, Stefano; Mircea, Mihaiela; Facchini, Maria C.; Junninen, Heikki; Kulmala, Markku; Lehtinen, Kari E. J.; Laaksonen, Ari; A comparison of new particle formation events in the boundary layer at three different sites in EuropeBOREAL ENVIRONMENT RESEARCH; 14; 4; 481; 498;2009

61. Facchini, M. C.; O'Dowd, C. D.; Biogenic origin of primary and secondary organic components in marine aerosolGEOCHIMICA ET COSMOCHIMICA ACTA; 73; 13; A348; A348;2009
62. Finessi, E.; Decesari, S.; Baltensperger, U.; Mentel, Th. F.; Facchini, M. C.; Identification of biogenic and anthropogenic components of secondary organic aerosol (SOA) by nuclear magnetic resonance spectroscopyGEOCHIMICA ET COSMOCHIMICA ACTA; 73; 13; A377; A377;2009
63. Rinaldi, M.; Decesari, S.; Finessi, E.; Carbone, C.; Mircea, M.; Fuzzi, S.; Ceburnis, D.; O'Dowd, C. D.; Facchini, M. C.; Marine organic aerosol: Characterization by proton nuclear magnetic resonance spectroscopy (H-1 NMR)GEOCHIMICA ET COSMOCHIMICA ACTA; 73; 13; A1102; A1102;2009
64. Vignati, E.; Facchini, M. C.; Rinaldi, M.; Scannell, C.; Sciare, J.; Kanakidou, M.; Myriokefalitakis, S.; Dentener, F.; O'Dowd, C.; Impact of global emissions of primary marine organic aerosolsGEOCHIMICA ET COSMOCHIMICA ACTA; 73; 13; A1383; A1383;2009
65. Gioda, Adriana; Mayol-Bracero, Olga L.; Morales-Garcia, Flavia; Collett, Jeff; Decesari, Stefano; Emblico, Lorenza; Facchini, Maria C.; Morales-De Jesus, Ricardo J.; Mertes, Stephan; Borrmann, Stephan; Walter, Saskia; Schneider, Johannes; Chemical Composition of Cloud Water in the Puerto Rican Tropical Trade Wind CumuliWATER AIR AND SOIL POLLUTION; 200; 01-apr; 3; 14;2009
66. Kulmala, M.; Asmi, A.; Lappalainen, H. K.; Carslaw, K. S.; Poeschl, U.; Baltensperger, U.; Hov, O.; Brenquier, J. -L.; Pandis, S. N.; Facchini, M. C.; Hansson, H. -C.; Wiedensohler, A.; O'Dowd, C. D.; Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) - integrating aerosol research from nano to global scalesATMOSPHERIC CHEMISTRY AND PHYSICS; 9; 8; 2825; 2841;2009
67. Kulmala, M.; Asmi, A.; Lappalainen, H. K.; Carslaw, K. S.; Poeschl, U.; Baltensperger, U.; Hov, O.; Brenguier, J-L.; Pandis, S. N.; Facchini, M. C.; Hansson, H-C.; Wiedensohler, A.; O'Dowd, C. D.; Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) - integrating aerosol research from nano to global scales (vol 9, pg 2825, 2009)ATMOSPHERIC CHEMISTRY AND PHYSICS; 9; 10; 3443; 3444;2009
68. Cristofanelli, P.; Marinoni, A.; Arduini, J.; Bonafe, U.; Calzolari, F.; Colombo, T.; Decesari, S.; Duchi, R.; Facchini, M. C.; Fierli, F.; Finessi, E.; Maione, M.; Chiari, M.; Calzolari, G.; Messina, P.; Orlandi, E.; Roccato, F.; Bonasoni, P.; Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa - contributions from wildfire emissions and mineral dustATMOSPHERIC CHEMISTRY AND PHYSICS; 9; 14; 4603; 4619;2009
69. Rinaldi, M.; Facchini, M. C.; Decesari, S.; Carbone, C.; Finessi, E.; Mircea, M.; Fuzzi, S.; Ceburnis, D.; Ehn, M.; Kulmala, M.; de Leeuw, G.; O'Dowd, C. D.; On the representativeness of coastal aerosol studies to open ocean studies: Mace Head - a case studyATMOSPHERIC CHEMISTRY AND PHYSICS; 9; 24; 9635; 9646;2009
70. Facchini, Maria Cristina; Decesari, Stefano; Rinaldi, Matteo; Carbone, Claudio; Finessi, Emanuela; Mircea, Mihaela; Fuzzi, Sandro; Moretti, Fabio; Tagliavini, Emilio; Ceburnis, Darius; O'Dowd, Colin D.; Important Source of Marine Secondary Organic Aerosol from Biogenic AminesENVIRONMENTAL SCIENCE & TECHNOLOGY; 42; 24; 9116; 9121;2008

71. Venzac, Herve; Sellegri, Karine; Laj, Paolo; Villani, Paolo; Bonasoni, Paolo; Marinoni, Angela; Cristofanelli, Paolo; Calzolari, Francescopiero; Fuzzi, Sandro; Decesari, Stefano; Facchini, Maria-Cristina; Vuillermoz, Elisa; Verza, Gian Pietro; High frequency new particle formation in the Himalayas PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA; 105; 41; 15666; 15671 ;2008
72. Facchini, Maria Cristina; Rinaldi, Matteo; Decesari, Stefano; Carbone, Claudio; Finessi, Emanuela; Mircea, Mihaela; Fuzzi, Sandro; Ceburnis, Darius; Flanagan, Robert; Nilsson, E. Douglas; de Leeuw, Gerrit; Martino, Manuela; Woeltjen, Janina; O'Dowd, Colin D.; Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates GEOPHYSICAL RESEARCH LETTERS; 35; 17; L17814; 2008
73. Moretti, F.; Tagliavini, E.; Decesari, S.; Facchini, M. C.; Rinaldi, M.; Fuzzi, S.; NMR determination of total carbonyls and carboxyls: A tool for tracing the evolution of atmospheric oxidized organic aerosols ENVIRONMENTAL SCIENCE & TECHNOLOGY; 42; 13; 4844; 4849;2008
74. Ceburnis, Darius; O'Dowd, Colin D.; Jennings, Gerard S.; Facchini, Maria Cristina; Emblico, Lorenza; Decesari, Stefano; Fuzzi, Sandro; Sakalys, Jonas; Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes GEOPHYSICAL RESEARCH LETTERS; 35; 7; L07804; 2008
75. Baltensperger, Urs; Dommen, Josef; Alfarra, Rami; Duplissy, Jonathan; Gaeggeler, Kathrin; Metzger, Axel; Facchini, Maria Cristina; Decesari, Stefano; Finessi, Emanuela; Reinnig, Christopher; Schott, Mathias; Warnke, Joerg; Hoffmann, Thorsten; Klatzer, Barbara; Puxbaum, Hans; Geiser, Marianne; Savi, Melanie; Lang, Doris; Kalberer, Markus; Geiser, Thomas; Combined determination of the chemical composition and of health effects of secondary organic aerosols: The POLYSOA project JOURNAL OF AEROSOL MEDICINE AND PULMONARY DRUG DELIVERY; 21; 1; 145; 154;2008
76. Bonasoni, P.; Laj, P.; Angelini, F.; Arduini, J.; Bonafe, U.; Calzolari, F.; Cristofanelli, P.; Decesari, S.; Facchini, M. C.; Fuzzi, S.; Gobbi, G. P.; Maione, M.; Marinoni, A.; Petzold, A.; Roccatò, F.; Roger, J. C.; Sellegri, K.; Sprenger, M.; Venzac, H.; Verza, G. P.; Villani, P.; Vuillermoz, E.; The ABC-Pyramid Atmospheric Research Observatory in Himalaya for aerosol, ozone and halocarbon measurements SCIENCE OF THE TOTAL ENVIRONMENT; 391; 02-mar; 252; 261;2008
77. Mircea, Mihaela; D'Isidoro, Massimo; Maurizi, Alberto; Tampieri, Francesco; Facchini, Maria Cristina; Decesari, Stefano; Fuzzi, Sandro; Saharan dust over Italy: Simulations with regional air quality model BOLCHEMAIR POLLUTION MODELING AND ITS APPLICATION XIX; Nato Science for Peace and Security Series C - Environmental Security 687; 688;2008
78. Laaksonen, A.; Kulmala, M.; O'Dowd, C. D.; Joutsensaari, J.; Vaattovaara, P.; Mikkonen, S.; Lehtinen, K. E. J.; Sogacheva, L.; Dal Maso, M.; Aalto, P.; Petaja, T.; Sogachev, A.; Yoon, Y. J.; Lihavainen, H.; Nilsson, D.; Facchini, M. C.; Cavalli, F.; Fuzzi, S.; Hoffmann, T.; Arnold, F.; Hanke, M.; Sellegri, K.; Umann, B.; Junkermann, W.; Coe, H.; Allan, J. D.; Alfarra, M. R.; Worsnop, D. R.; Riekkola, M. -L.; Hyotylainen, T.; Viisanen, Y.; The role of VOC oxidation products in continental new particle formation ATMOSPHERIC CHEMISTRY AND PHYSICS; 8; 10; 2657; 2665;2008
79. O'Dowd, Colin D.; Langmann, Baerbel; Varghese, Saji; Scannell, Claire; Ceburnis, Darius; Facchini, Maria Cristina; A combined organic-inorganic sea-spray source function GEOPHYSICAL RESEARCH LETTERS; 35; 1; L01801; 2008

80. Rinaldi, M.; Emblico, L.; Decesari, S.; Fuzzi, S.; Facchini, M. C.; Librando, V.; Chemical characterization and source apportionment of size-segregated aerosol collected at an urban site in sicilyWATER AIR AND SOIL POLLUTION; 185; 01-apr; 311; 321;2007
81. Mancinelli, Valeriana; Rinaldi, Matteo; Finessi, Emanuela; Emblico, Lorenza; Mircea, Mihaela; Fuzzi, Sandro; Facchini, Maria Cristina; Decesari, Stefano; An anion-exchange high-performance liquid chromatography method coupled to total organic carbon determination for the analysis of water-soluble organic aerosolsJOURNAL OF CHROMATOGRAPHY A; 1149; 2; 385; 389;2007
82. Decesari, Stefano; Mircea, M.; Cavalli, F.; Fuzzi, S.; Moretti, F.; Tagliavini, E.; Facchini, M. C.; Source attribution of water-soluble organic aerosol by nuclear magnetic resonance spectroscopyENVIRONMENTAL SCIENCE & TECHNOLOGY; 41; 7; 2479; 2484;2007
83. Yoon, Y. J.; Ceburnis, D.; Cavalli, F.; Jourdan, O.; Putaud, J. P.; Facchini, M. C.; Decesari, S.; Fuzzi, S.; Sellegri, K.; Jennings, S. G.; O'Dowd, C. D.; Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosolsJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 112; D4; D04206; 2007
84. Sogacheva, L.; Hamed, A.; Facchini, M. C.; Kulmala, M.; Laaksonen, A.; Relation of air mass history to nucleation events in Po Valley, Italy, using back trajectories analysisATMOSPHERIC CHEMISTRY AND PHYSICS; 7839; 853;2007
85. Hamed, A.; Joutsensaari, J.; Mikkonen, S.; Sogacheva, L.; Dal Maso, M.; Kulmala, M.; Cavalli, F.; Fuzzi, S.; Facchini, M. C.; Decesari, S.; Mircea, M.; Lehtinen, K. E. J.; Laaksonen, A.; Nucleation and growth of new particles in Po Valley, ItalyATMOSPHERIC CHEMISTRY AND PHYSICS; 7355; 376;2007
86. Fuzzi, Sandro; Decesari, Stefano; Facchini, Maria Cristina; Cavalli, Fabrizia; Emblico, Lorenza; Mircea, Mihaela; Andreae, Meinrat O.; Trebs, Ivonne; Hoffer, Andras; Guyon, Pascal; Artaxo, Paulo; Rizzo, Luciana V.; Lara, Luciene L.; Pauliquevis, Theotonio; Maenhaut, Willy; Raes, Nico; Chi, Xuguang; Mayol-Bracero, Olga L.; Soto-Garcia, Lydia L.; Claeys, Magda; Kourtchev, Ivan; Rissler, Jenny; Swietlicki, Erik; Tagliavini, Emilio; Schkolnik, Gal; Falkovich, Alla H.; Rudich, Yinon; Fisch, Gilberto; Gatti, Luciana V.; Overview of the inorganic and organic composition of size-segregated aerosol in Rondonia, Brazil, from the biomass-burning period to the onset of the wet seasonJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 112; D1; D01201; 2007
87. Topping, D. O.; McFiggans, G. B.; Kiss, G.; Varga, Z.; Facchini, M. C.; Decesari, S.; Mircea, M.; Surface tensions of multi-component mixed inorganic/organic aqueous systems of atmospheric significance: measurements, model predictions and importance for cloud activation predictionsATMOSPHERIC CHEMISTRY AND PHYSICS; 7; 9; 2371; 2398;2007
88. Yttri, K. E.; Aas, W.; Bjerke, A.; Cape, J. N.; Cavalli, F.; Ceburnis, D.; Dye, C.; Emblico, L.; Facchini, M. C.; Forster, C.; Hanssen, J. E.; Hansson, H. C.; Jennings, S. G.; Maenhaut, W.; Putaud, J. P.; Torseth, K.; Elemental and organic carbon in PM10: a one year measurement campaign within the European Monitoring and Evaluation Programme EMEPATMOSPHERIC CHEMISTRY AND PHYSICS; 7; 22; 5711; 5725;2007
89. Mikkonen, S.; Lehtinen, K. E. J.; Hamed, A.; Joutsensaari, J.; Facchini, M. C.; Laaksonen, A.; Using discriminant analysis as a nucleation event classification methodATMOSPHERIC CHEMISTRY AND PHYSICS; 65549; 5557;2006

90. McFiggans, G.; Artaxo, P.; Baltensperger, U.; Coe, H.; Facchini, M. C.; Feingold, G.; Fuzzi, S.; Gysel, M.; Laaksonen, A.; Lohmann, U.; Mentel, T. F.; Murphy, D. M.; O'Dowd, C. D.; Snider, J. R.; Weingartner, E.; The effect of physical and chemical aerosol properties on warm cloud droplet activation *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 62593; 2649;2006
91. Mancinelli, Valeriana; Decesari, Stefano; Emblico, Lorenza; Tozzi, Rosemarie; Mangani, Filippo; Fuzzi, Sandro; Facchini, Maria Cristina; Extractable iron and organic matter in the suspended insoluble material of fog droplets *WATER AIR AND SOIL POLLUTION*; 174; 01-apr; 303; 320;2006
92. Svenningsson, B; Rissler, J; Swietlicki, E; Mircea, M; Bilde, M; Facchini, MC; Decesari, S; Fuzzi, S; Zhou, J; Monster, J; Rosenorn, T; Hygroscopic growth and critical supersaturations for mixed aerosol particles of inorganic and organic compounds of atmospheric relevance *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 61937; 1952;2006
93. Tagliavini, E; Moretti, F; Decesari, S; Facchini, MC; Fuzzi, S; Maenhaut, W; Functional group analysis by HNMR/chemical derivatization for the characterization of organic aerosol from the SMOCC field campaign *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 61003; 1019;2006
94. Cavalli, F; Facchini, MC; Decesari, S; Emblico, L; Mircea, M; Jensen, NR; Fuzzi, S; Size-segregated aerosol chemical composition at a boreal site in southern Finland, during the QUEST project *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 6993; 1002;2006
95. Decesari, S; Fuzzi, S; Facchini, MC; Mircea, M; Emblico, L; Cavalli, F; Maenhaut, W; Chi, X; Schkolnik, G; Falkovich, A; Rudich, Y; Claeys, M; Pashynska, V; Vas, G; Kourtchev, I; Vermeylen, R; Hoffer, A; Andreae, MO; Tagliavini, E; Moretti, F; Artaxo, P; Characterization of the organic composition of aerosols from Rondonia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 6375; 402;2006
96. Decesari, S; Moretti, F; Fuzzi, S; Facchini, MC; Tagliavini, E; Comment on On the use of anion exchange chromatography for the characterization of water soluble organic carbon" by H. Chang et al. *GEOPHYSICAL RESEARCH LETTERS*; 32; 24; L24814; 2005
97. Mircea, M; Facchini, MC; Decesari, S; Cavalli, F; Emblico, L; Fuzzi, S; Vestin, A; Rissler, J; Swietlicki, E; Frank, G; Andreae, MO; Maenhaut, W; Rudich, Y; Artaxo, P; Importance of the organic aerosol fraction for modeling aerosol hygroscopic growth and activation: a case study in the Amazon Basin *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 53111; 31262005
98. Mancinelli, V; Decesari, S; Facchini, MC; Fuzzi, S; Mangani, F; Partitioning of metals between the aqueous phase and suspended insoluble material in fog droplets *ANNALI DI CHIMICA*; 95; 5; 275; 290;2005
99. Kanakidou, M; Seinfeld, JH; Pandis, SN; Barnes, I; Dentener, FJ; Facchini, MC; Van Dingenen, R; Ervens, B; Nenes, A; Nielsen, CJ; Swietlicki, E; Putaud, JP; Balkanski, Y; Fuzzi, S; Horth, J; Moortgat, GK; Winterhalter, R; Myhre, CEL; Tsigaridis, K; Vignati, E; Stephanou, EG; Wilson, J; Organic aerosol and global climate modelling: a review *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 51053; 1123;2005
100. Laaksonen, A; Hamed, A; Joutsensaari, J; Hiltunen, L; Cavalli, F; Junkermann, W; Asmi, A; Fuzzi, S; Facchini, MC; Cloud condensation nucleus production from nucleation events at a highly polluted region *GEOPHYSICAL RESEARCH LETTERS*; 32; 6; L06812; 2005

101. Decesari, S; Facchini, MC; Fuzzi, S; McFiggans, GB; Coe, H; Bower, KN; The water-soluble organic component of size-segregated aerosol, cloud water and wet depositions from Jeju Island during ACE-AsiaATMOSPHERIC ENVIRONMENT; 39; 2; 211; 222;2005
102. McFiggans, G., M.R. Alfarra, J. Allan, K. Bower, H. Coe, M. Cubison, D. Topping, P. Williams, S. Decesari, M.C. Facchini, and S. Fuzzi. Simplification of the representation of the organic component of atmospheric particulates. *Faraday Discuss.*, 130, 341–362, 2005).
103. Cavalli, F; Facchini, MC; Decesari, S; Mircea, M; Emblico, L; Fuzzi, S; Ceburnis, D; Yoon, YJ; O'Dowd, CD; Putaud, JP; Dell'Acqua, A; Advances in characterization of size-resolved organic matter in marine aerosol over the North AtlanticJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 109; D24; D24215; 2004
104. Palma, P; Cappiello, A; De Simoni, E; Mangani, F; Trufelli, H; Decesari, S; Facchini, MC; Fuzzi, S; Identification of levoglucosan and related stereoisomers in fog water as a biomass combustion tracer by ESI-MS/MSANNALI DI CHIMICA; 94; 12; 911; 919; 2004
105. O'Dowd, CD; Facchini, MC; Cavalli, F; Ceburnis, D; Mircea, M; Decesari, S; Fuzzi, S; Yoon, YJ; Putaud, JP; Biogenically driven organic contribution to marine aerosolNATURE; 431; 7009; 676; 680; 2004
106. Putaud, JP; Van Dingenen, R; Dell'Acqua, A; Raes, F; Matta, E; Decesari, S; Facchini, MC; Fuzzi, S; Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROCATMOSPHERIC CHEMISTRY AND PHYSICS; 4889; 902; 2004
107. Topping, D; Coe, H; McFiggans, G; Burgess, R; Allan, J; Alfarra, MR; Bower, K; Choularton, TW; Decesari, S; Facchini, MC; Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE AsiaATMOSPHERIC ENVIRONMENT; 38; 14; 2111; 2123; 2004
108. Van Dingenen, R; Raes, F; Putaud, JP; Baltensperger, U; Charron, A; Facchini, MC; Decesari, S; Fuzzi, S; Gehrig, R; Hansson, HC; Harrison, RM; Hüglin, C; Jones, AM; Laj, P; Lorbeer, G; Maenhaut, W; Palmgren, F; Querol, X; Rodriguez, S; Schneider, J; ten Brink, H; Tunved, P; Torseth, K; Wehner, B; Weingartner, E; Wiedensohler, A; Wahlin, P; A European aerosol phenomenology-1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in EuropeATMOSPHERIC ENVIRONMENT; 38; 16; 2561; 2577; 2004
109. Putaud, JP; Raes, F; Van Dingenen, R; Brüggemann, E; Facchini, MC; Decesari, S; Fuzzi, S; Gehrig, R; Hüglin, C; Laj, P; Lorbeer, G; Maenhaut, W; Mihalopoulos, N; Müller, K; Querol, X; Rodriguez, S; Schneider, J; Spindler, G; ten Brink, H; Torseth, K; Wiedensohler, A; European aerosol phenomenology-2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in EuropeATMOSPHERIC ENVIRONMENT; 38; 16; 2579; 2595; 2004
110. Mircea, M; Stefan, S; Facchini, MC; Fuzzi, S; Analytical formulas for the below-cloud scavenging coefficient of an irreversibly soluble gas: a quantitative evaluation for HNO₃INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION; 21; 6; 547; 565; 2004
111. Gaman, AI; Kulmala, M; Vehkamäki, H; Napari, I; Mircea, M; Facchini, MC; Laaksonen, A; Binary homogeneous nucleation in water-succinic acid and water-glutaric acid systemsJOURNAL OF CHEMICAL PHYSICS; 120; 1; 282; 291; 2004

112. Gobbi, GP; Barnaba, F; Van Dingenen, R; Putaud, JP; Mircea, M; Facchini, MC; Lidar and in situ observations of continental and Saharan aerosol: closure analysis of particles optical and physical propertiesATMOSPHERIC CHEMISTRY AND PHYSICS; 32161; 2172; 2003
113. Decesari, S; Facchini, MC; Mircea, M; Cavalli, F; Fuzzi, S; Solubility properties of surfactants in atmospheric aerosol and cloud/fog water samplesJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 108; D21; 4685; 2003
114. Balasubramanian, R; Qian, WB; Decesari, S; Facchini, MC; Fuzzi, S; Comprehensive characterization of PM2.5 aerosols in SingaporeJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 108; D16; 4523; 2003
115. Matta, E; Facchini, MC; Decesari, S; Mircea, M; Cavalli, F; Fuzzi, S; Putaud, JP; Dell'Acqua, A; Mass closure on the chemical species in size-segregated atmospheric aerosol collected in an urban area of the Po Valley, ItalyATMOSPHERIC CHEMISTRY AND PHYSICS; 3623; 637; 2003
116. Cappiello, A; De Simoni, E; Fiorucci, C; Mangani, F; Palma, P; Trufelli, H; Decesari, S; Facchini, MC; Fuzzi, S; Molecular characterization of the water-soluble organic compounds in fogwater by ESIMS/MSEENVIRONMENTAL SCIENCE & TECHNOLOGY; 37; 7; 1229; 1240; 2003
117. Fuzzi, S; Facchini, MC; Decesari, S; Matta, E; Mircea, M; Soluble organic compounds in fog and cloud droplets: what have we learned over the past few years?ATMOSPHERIC RESEARCH; 64; 01-apr; 89; 98; PII S0169-8095(02)00082-0; 2002
118. Nenes, A; Charlson, RJ; Facchini, MC; Kulmala, M; Laaksonen, A; Seinfeld, JH; Can chemical effects on cloud droplet number rival the first indirect effect?GEOPHYSICAL RESEARCH LETTERS; 29; 17; 1848; 2002
119. Graham, B; Mayol-Bracero, OL; Guyon, P; Roberts, GC; Decesari, S; Facchini, MC; Artaxo, P; Maenhaut, W; Koll, P; Andreae, MO; Water-soluble organic compounds in biomass burning aerosols over Amazonia - Characterization by NMR and GC-MSJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 107; D20; 8047; 2002
120. Mayol-Bracero, OL; Guyon, P; Graham, B; Roberts, G; Andreae, MO; Decesari, S; Facchini, MC; Fuzzi, S; Artaxo, P; Water-soluble organic compounds in biomass burning aerosols over Amazonia - 2. Apportionment of the chemical composition and importance of the polyacidic fractionJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 107; D20; 8091; 2002
121. Decesari, S; Facchini, MC; Matta, E; Mircea, M; Fuzzi, S; Chughtai, AR; Smith, DM; Water soluble organic compounds formed by oxidation of sootATMOSPHERIC ENVIRONMENT; 36; 11; 1827; 1832; PII S1352-2310(02)00141-3; 2002
122. Mircea, M; Facchini, MC; Decesari, S; Fuzzi, S; Charlson, RJ; The influence of the organic aerosol component on CCN supersaturation spectra for different aerosol typesTELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY; 54; 1; 74; 812002
123. Fuzzi, S; Decesari, S; Facchini, MC; Matta, E; Mircea, M; Tagliavini, E; A simplified model of the water soluble organic component of atmospheric aerosolsGEOPHYSICAL RESEARCH LETTERS; 28; 21; 4079; 4082; 2001
124. Decesari, S; Facchini, MC; Matta, E; Lettini, F; Mircea, M; Fuzzi, S; Tagliavini, E; Putaud, JP; Chemical features and seasonal variation of fine aerosol water-soluble

- organic compounds in the Po Valley, ItalyATMOSPHERIC ENVIRONMENT; 35; 21; 3691; 3699; 2001
125. Charlson, RJ; Seinfeld, JH; Nenes, A; Kulmala, M; Laaksonen, A; Facchini, MC; Atmospheric science - Reshaping the theory of cloud formationSCIENCE; 292; 5524; 2025; 2026; 2001
126. Kiss, G; Varga, B; Gelencser, A; Krivacsy, Z; Molnar, A; Alsberg, T; Persson, L; Hansson, HC; Facchini, MC; Characterisation of polar organic compounds in fog waterATMOSPHERIC ENVIRONMENT; 35; 12; 2193; 2200; 2001
127. Facchini, MC; Mircea, M; Fuzzi, S; Charlson, RJ; Comments on Influence of soluble surfactant properties on the activation of aerosol particles containing inorganic solute"JOURNAL OF THE ATMOSPHERIC SCIENCES; 58; 11; 1465; 1467; 2001
128. Bower, BKN; Choulaton, TW; Gallagher, MW; Beswick, KM; Flynn, MJ; Allen, AG; Davison, BM; James, JD; Robertson, L; Harrison, RM; Hewitt, CN; Cape, JN; McFadyen, GG; Milford, C; Sutton, MA; Martinsson, BG; Frank, G; Swietlicki, E; Zhou, J; Berg, OH; Mentes, B; Papaspiropoulos, G; Hansson, HC; Leck, C; Kulmala, M; Aalto, P; Vakeva, M; Berner, A; Bizjak, M; Fuzzi, S; Laj, P; Facchini, MC; Orsi, G; Ricci, L; Nielsen, M; Allan, BJ; Coe, H; McFiggans, G; Plane, JMC; Collett, JL; Moore, KF; Sherman, DE; ACE-2 HILLCLOUD. An overview of the ACE-2 ground-based cloud experimentTELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY; 52; 2; 750; 778; 2000
129. Decesari, S; Facchini, MC; Fuzzi, S; Tagliavini, E; Characterization of water-soluble organic compounds in atmospheric aerosol: A new approachJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 105; D1; 1481; 1489; 2000
130. Krivacsy, Z; Kiss, G; Varga, B; Galambos, I; Sarvari, Z; Gelencser, A; Molnar, A; Fuzzi, S; Facchini, MC; Zappoli, S; Andracchio, A; Alsberg, T; Hansson, HC; Persson, L; Study of humic-like substances in fog and interstitial aerosol by size-exclusion chromatography and capillary electrophoresisATMOSPHERIC ENVIRONMENT; 34; 25; 4273; 4281; 2000
131. Facchini, MC; Decesari, S; Mircea, M; Fuzzi, S; Loglio, G; Surface tension of atmospheric wet aerosol and cloud/fog droplets in relation to their organic carbon content and chemical compositionATMOSPHERIC ENVIRONMENT; 34; 28; 4853; 4857; 2000
132. Facchini, MC; Fuzzi, S; Zappoli, S; Andracchio, A; Gelencser, A; Kiss, G; Krivacsy, Z; Meszaros, E; Hansson, HC; Alsberg, T; Zebuhr, Y; Partitioning of the organic aerosol component between fog droplets and interstitial airJOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 104; D21; 26821; 26832; 1999
133. Facchini, MC; Mircea, M; Fuzzi, S; Charlson, RJ; Cloud albedo enhancement by surface-active organic solutes in growing dropletsNATURE; 401; 6750; 257; 259; 1999
134. Zappoli, S; Andracchio, A; Fuzzi, S; Facchini, MC; Gelencser, A; Kiss, G; Krivacsy, Z; Molnar, A; Meszaros, E; Hansson, HC; Rosman, K; Zebuhr, Y; Inorganic, organic and macromolecular components of fine aerosol in different areas of Europe in relation to their water solubilityATMOSPHERIC ENVIRONMENT; 33; 17; 2733; 2743; 1999
135. Choulaton, TW; Colvile, RN; Bower, KN; Gallagher, MW; Wells, M; Beswick, KM; Arends, BG; Mols, JJ; Kos, GPA; Fuzzi, S; Lind, JA; Orsi, G; Facchini, MC; Laj, P;

- Gieray, R; Wieser, P; Engelhardt, T; Berner, A; Kruisz, C; Moller, D; Acker, K; Wieprecht, W; Luttke, J; Levsen, K; Bizjak, M; Hansson, HC; Cederfelt, SI; Frank, G; Menten, B; Martinsson, B; Orsini, D; Svenningsson, B; Swietlicki, E; Wiedensohler, A; Noone, KJ; Pahl, S; Winkler, P; Seyffer, E; Helas, G; Jaeschke, W; Georgii, HW; Wobrock, W; Preiss, M; Maser, R; Schell, D; Dollard, G; Jones, B; Davies, T; Sedlak, DL; David, MM; Wendisch, M; Cape, JN; Hargreaves, KJ; Sutton, MA; StoretonWest, RL; Fowler, D; Hallberg, A; Harrison, RM; Peak, JD; The Great Dun Fell Cloud Experiment 1993: An overview *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2393; 2405; 1997
136. Swietlicki, E; Hansson, HC; Martinsson, B; Menten, B; Orsini, D; Svenningsson, B; Wiedensohler, A; Wendisch, M; Pahl, S; Winkler, P; Colvile, RN; Gieray, R; Luttke, J; Heintzenberg, J; Cape, JN; Hargreaves, KJ; StoretonWest, RL; Acker, K; Wieprecht, W; Berner, A; Kruisz, C; Facchini, MC; Laj, P; Fuzzi, S; Jones, B; Nason, P; Source identification during the Great Dun Fell Cloud Experiment 1993 *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2441; 2451; 1997
137. Hallberg, A; Wobrock, W; Flossmann, AI; Bower, KN; Noone, KJ; Wiedensohler, A; Hansson, HC; Wendisch, M; Berner, A; Kruisz, C; Laj, P; Facchini, MC; Fuzzi, S; Arends, BG; Microphysics of clouds: Model vs measurements *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2453; 2462 1997
138. Laj, P; Fuzzi, S; Facchini, MC; Orsi, G; Berner, A; Kruisz, C; Wobrock, W; Hallberg, A; Bower, KN; Gallagher, MW; Beswick, KM; Colvile, RN; Choulaton, TW; Nason, P; Jones, B; Experimental evidence for in-cloud production of aerosol sulphate *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2503; 2514 1997
139. Bower, KN; Choulaton, TW; Gallagher, MW; Colvile, RN; Wells, M; Beswick, KM; Wiedensohler, A; Hansson, HC; Svenningsson, B; Swietlicki, E; Wendisch, M; Berner, A; Kruisz, C; Laj, P; Facchini, MC; Fuzzi, S; Bizjak, M; Dollard, G; Jones, B; Acker, K; Wieprecht, W; Preiss, M; Sutton, MA; Hargreaves, KJ; StoretonWest, RL; Cape, JN; Arends, BG; Observations and modelling of the processing of aerosol by a hill cap cloud *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2527; 2543; 1997
140. Wiedensohler, A; Hansson, HC; Orsini, D; Wendisch, M; Wagner, F; Bower, KN; Choulaton, TW; Wells, M; Parkin, M; Acker, K; Wieprecht, W; Facchini, MC; Lind, JA; Fuzzi, S; Arends, BG; Kulmala, M; Night-time formation and occurrence of new particles associated with orographic clouds *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2545; 2559; 1997
141. Schell, D; Wobrock, W; Maser, R; Preiss, M; Jaeschke, W; Georgii, HW; Gallagher, MW; Bower, KN; Beswick, KM; Pahl, S; Facchini, MC; Fuzzi, S; Wiedensohler, A; Hansson, HC; Wendisch, M; The size-dependent chemical composition of cloud droplets *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2561; 2576; 1997
142. Pahl, S; Winkler, P; Arends, BG; Kos, GPA; Schell, D; Facchini, MC; Fuzzi, S; Gallagher, MW; Colvile, RN; Choulaton, TW; Berner, A; Kruisz, C; Bizjak, M; Acker, K; Wieprecht, W; Vertical gradients of dissolved chemical constituents in evaporating clouds *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2577; 2588; 1997
143. Laj, P; Fuzzi, S; Facchini, MC; Lind, JA; Orsi, G; Preiss, M; Maser, R; Jaeschke, W; Seyffer, E; Helas, G; Acker, K; Wieprecht, W; Moller, D; Arends, BG; Mols, JJ; Colvile, RN; Gallagher, MW; Beswick, KM; Hargreaves, KJ; StoretonWest, RL; Sutton, MA; Cloud processing of soluble gases *ATMOSPHERIC ENVIRONMENT*; 31; 16; 2589; 2598; 1997

144. Wells, M; Bower, KN; Choularton, TW; Cape, JN; Sutton, MA; StoretonWest, RL; Fowler, D; Wiedensohler, A; Hansson, HC; Svenningsson, B; Swietlicki, E; Wendisch, M; Jones, B; Dollard, G; Acker, K; Wieprecht, W; Preiss, M; Arends, BG; Pahl, S; Berner, A; Kruisz, C; Laj, P; Facchini, MC; Fuzzi, S; The reduced nitrogen budget of an orographic cloudATMOSPHERIC ENVIRONMENT; 31; 16; 2599; 2614; 1997
145. Cape, JN; Hargreaves, KJ; StoretonWest, RL; Jones, B; Davies, T; Colvile, RN; Gallagher, MW; Choularton, TW; Pahl, S; Berner, A; Kruisz, C; Bizjak, M; Laj, P; Facchini, MC; Fuzzi, S; Arends, BG; Acker, K; Wieprecht, W; Harrison, RM; Peak, JD; The budget of oxidised nitrogen species in orographic cloudsATMOSPHERIC ENVIRONMENT; 31; 16; 2625; 2636; 1997
146. Facchini, MC; Fuzzi, S; NEVALPA: a regional network for fog chemical climatology in the Po ValleyAIR POLLUTION V; 487; 496; 1997
147. Laj, P; Fuzzi, S; Facchini, MC; Lind, JA; Orsi, G; Berner, A; Wobrock, W; Cloud processing of gases and aerosols at Great Dun Fell, EnglandPROCEEDINGS OF EUROTRAC SYMPOSIUM '96 - TRANSPORT AND TRANSFORMATION OF POLLUTANTS IN THE TROPOSPHERE, VOL 1: CLOUDS, AEROSOLS, MODELLING AND PHOTO-OXIDANTS; 73; 77; 1997
148. Fuzzi, S; Facchini, MC; Orsi, G; Bonforte, G; Martinotti, W; Ziliani, G; Mazzali, P; Rossi, P; Natale, P; Grosa, MM; Rampado, E; Vitali, P; Raffaelli, R; Azzini, G; Grotti, S; The NEVALPA project: A regional network for fog chemical climatology over the Po Valley basinATMOSPHERIC ENVIRONMENT; 30; 2; 201; 213; 1996
149. Landi, A; Saracino, A; Pinelli, M; Caserta, G; Facchini, M C; Tourniquet paralysis in microsurgery. Annals of the Academy of Medicine, Singapore; 24; 4 Suppl; 89; 93; 1995
150. Wobrock, W; Schell, D; Maser, R; Jaeschke, W; Georgii, Hw; Wieprecht, W; Arends, Bg; Mols, Jj; Kos, Gpa; Fuzzi, S; Facchini, Mc; Orsi, G; Berner, A; Solly, I; Kruisz, C; Svenningsson, Ib; Wiedensohler, A; Hansson, Hc; Ogren, Ja; Noone, Kj; Hallberg, A; Pahl, S; Schneider, T; Winkler, P; Winiwarter, W; Colvile, Rn; Choularton, Tw; Flossmann, Ai; Borrmann, S; The Kleiner-Feldberg Cloud Experiment 1990 - An Overviewjournal Of Atmospheric Chemistry; 19; 01-Feb; 3; 35; 1994
151. Fuzzi, S; Facchini, Mc; Schell, D; Wobrock, W; Winkler, P; Arends, Bg; Kessel, M; Mols, Jj; Pahl, S; Schneider, T; Berner, A; Solly, I; Kruisz, C; Kalina, M; Fierlinger, H; Hallberg, A; Vitali, P; Santoli, L; Tigli, G; Multiphase Chemistry And Acidity Of Clouds At Kleiner-Feldbergjournal Of Atmospheric Chemistry; 19; 01-Feb; 87; 106; 1994
152. Winiwarter, W; Fierlinger, H; Puxbaum, H; Facchini, Mc; Arends, Bg; Fuzzi, S; Schell, D; Kaminski, U; Pahl, S; Schneider, T; Berner, A; Solly, I; Kruisz, C; Henrys Law And The Behavior Of Weak Acids And Bases In Fog And Cloudjournal Of Atmospheric Chemistry; 19; 01-Feb; 173; 188; 1994
153. Colvile, Rn; Sander, R; Choularton, Tw; Bower, Kn; Inglis, Dwf; Wobrock, W; Schell, D; Svenningsson, Ib; Wiedensohler, A; Hansson, Hc; Hallberg, A; Ogren, Ja; Noone, Kj; Facchini, Mc; Fuzzi, S; Orsi, G; Arends, Bg; Winiwarter, W; Schneider, T; Berner, A; Computer Modeling Of Clouds At Kleiner-Feldbergjournal Of Atmospheric Chemistry; 19; 01-Feb; 189; 229; 1994
154. Fuzzi, S; Facchini, Mc; Orsi, G; Lind, Ja; Wobrock, W; Kessel, M; Maser, R; Jaeschke, W; Enderle, Kh; Arends, Bg; Berner, A; Solly, I; Kruisz, C; Reischl, G; Pahl, S; Kaminski, U; Winkler, P; Ogren, Ja; Noone, Kj; Hallberg, A; Fierlingeroberlinninger, H; Puxbaum, H; Marzorati, A; Hansson, Hc; Wiedensohler, A; Svenningsson, Ib;

- Martinsson, Bg; Schell, D; Georgii, Hw; The Po Valley Fog Experiment 1989 - An
Overviewtellus Series B-Chemical And Physical Meteorology; 44; 5; 448; 468; 1992
155. Wobrock, W; Schell, D; Maser, R; Kessel, M; Jaeschke, W; Fuzzi, S; Facchini, Mc;
Orsi, G; Marzorati, A; Winkler, P; Arends, Bg; Bendix, J; Meteorological Characteristics
Of The Po Valley Fogtellus Series B-Chemical And Physical
Meteorology; 44; 5; 469; 488; 1992
156. Noone, Kj; Ogren, Ja; Hallberg, A; Heintzenberg, J; Strom, J; Hansson, Hc;
Svenningsson, B; Wiedensohler, A; Fuzzi, S; Facchini, Mc; Arends, Bg; Berner,
A; Changes In Aerosol Size And Phase Distributions Due To Physical And Chemical
Processes In Fogtellus Series B-Chemical And Physical
Meteorology; 44; 5; 489; 504; 1992
157. Facchini, Mc; Fuzzi, S; Kessel, M; Wobrock, W; Jaeschke, W; Arends, Bg; Mols, Jj;
Berner, A; Solly, J; Krusiz, C; Reischl, G; Pahl, S; Hallberg, A; Ogren, Ja;
Fierlingeroberlinninger, H; Marzorati, A; Schell, D; The Chemistry Of Sulfur And
Nitrogen Species In A Fog System - A Multiphase Approachtellus Series B-Chemical
And Physical Meteorology; 44; 5; 505; 521; 1992
158. Kessel, M; Grieser, J; Wobrock, W; Jaeschke, W; Fuzzi, S; Facchini, Mc; Orsi,
G; Nitrogen-Oxides Concentrations And Soil Emission Fluxes In The Po Valleytellus
Series B-Chemical And Physical Meteorology; 44; 5; 522; 532; 1992
159. Facchini, Mc; Fuzzi, S; Lind, Ja; Fierlingeroberlinninger, H; Kalina, M; Puxbaum,
H; Winiwarter, W; Arends, Bg; Wobrock, W; Jaeschke, W; Berner, A; Krusiz, C; Phase-
Partitioning And Chemical-Reactions Of Low-Molecular-Weight Organic-Compounds
In Fogtellus Series B-Chemical And Physical Meteorology; 44; 5; 533; 544; 1992
160. Hallberg, A; Ogren, Ja; Noone, Kj; Heintzenberg, J; Berner, A; Solly, I; Krusiz, C;
Reischl, G; Fuzzi, S; Facchini, Mc; Hansson, Hc; Wiedensohler, A; Svenningsson,
Ib; Phase Partitioning For Different Aerosol Species In Fogtellus Series B-Chemical
And Physical Meteorology; 44; 5; 545; 555; 1992
161. Guerzoni, S; Lenaz, R; Quarantotto, G; Taviani, M; Rampazzo, G; Facchini, Mc;
Fuzzi, S; Geochemistry Of Airborne Particles From The Lower Troposphere Of Terra-
Nova Bay, Antarcticatellus Series B-Chemical And Physical
Meteorology; 44; 4; 304; 310; 1992
162. Fuzzi, S; Facchini, Mc; Orsi, G; Ferri, D; Seasonal Trend Of Fog Water Chemical-
Composition In The Po Valleyenvironmental Pollution; 75; 1; 75; 80; 1992
163. Facchini, Mc; Lind, J; Orsi, G; Fuzzi, S; Chemistry Of Carbonyl-Compounds In Po
Valley Fog Waterscience Of The Total Environment; 9179; 86; 1990
164. Fuzzi, S; Cesari, G; Evangelisti, F; Facchini, Mc; Orsi, G; An Automatic Station
For Fog Water Collectionatmospheric Environment Part A-General
Topics; 24; 10; 2609; 2614; 1990
165. Jaescke, W; Enderle, Kh; Fuzzi, S; Orsi, G; Facchini, Mc; Berner, A; Reischl,
G; Ground Based Cloud And Fog Experimentsphysico-Chemical Behaviour Of
Atmospheric Pollutants; Air Pollution Research Report2357; 62; 1990
166. Facchini, Mc; Fuzzi, S; Lind, J; Orsi, G; Low-Molecular-Weight Organic-
Compounds In The Po Valley Fog Waterphysico-Chemical Behaviour Of Atmospheric
Pollutants; Air Pollution Research Report23505; 5091990

167. Fuzzi, S; Cesari, G; Facchini, Mc; Lenaz, R; Berner, A; Ferri, D; Mariotti, M; Characterization Of Atmospheric Particulate Matter Over The Eastern Mediterranean-Sea; *Journal Of Aerosol Science*; 20; 8; 1241; 1244; 1989
168. Berner, A; Reischl, G; Enderle, Kh; Jaeschke, W; Fuzzi, S; Orsi, G; Facchini, Mc; The Liquid Water-Content Of A Radiation Fog Measured By An Fssp-100 Optical Probe And A Fog Impactors. *Science Of The Total Environment*; 77; 02-Mar; 133; 140; 1988
169. Fuzzi, S; Orsi, G; Nardini, G; Facchini, Mc; McLaren, S; McLaren, E; Mariotti, M; Heterogeneous Processes In The Po Valley Radiation Fog. *Journal Of Geophysical Research-Atmospheres*; 93; D9; 11141; 11151; 1988
170. Chiavari, G; Facchini, Mc; Fuzzi, S; Behavior Of 3-Methyl-2-Benzothiazolone Azines Of Carbonyl-Compounds In High-Performance Liquid-Chromatography. *Journal Of Chromatography*; 387459; 466; 1987
171. Facchini, Mc; Chiavari, G; Fuzzi, S; An Improved Hplc Method For Carbonyl Compound Speciation In The Atmospheric Liquid-Phase. *Chemosphere*; 15; 6; 667; 674; 1986
172. Chiavari, G; Facchini, Mc; Fuzzi, S; Determination Of Formaldehyde As Its Lutidine Derivative In The Atmospheric Liquid-Phase By High-Performance Liquid-Chromatography. *Journal of Chromatography*; 333; 1; 262; 268; 1985