

# 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
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## 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).
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## Posizioni ricoperte

2007-presente	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.

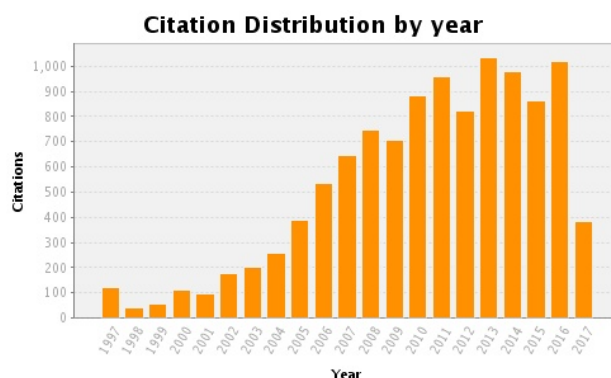
Grazie a questi risultati gestisce oggi un grande numero di collaborazioni scientifiche con i maggiori gruppi europei e statunitensi nel campo delle scienze dell'atmosfera e del clima. Questo è evidenziato dalle collaborazioni nella vasta e qualificata produzione scientifica, dall'elevato numero di presentazioni 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 160 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 a oggi a più di 11,000 con un fattore di Hirsch (*h-factor*) di 55 (ISI).



- Articoli totali: 163
- Citazioni totali: 11,173
- Citazioni medie per articolo: 70.27

## 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:

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|---------------|---|
| 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 <sup>th</sup> <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**

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|---------------|---|
| 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. 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. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 17, 7721–7731, 2017.
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*, June 22, 2017.
3. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 17; 313-326; 2017.
4. 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*; DOI:10.1002/2016JD025030; 2016.
5. 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*, 16, 10879-10897, 2016.
6. Gilardoni S., Massoli P., Paglione M., Giulianelli L., Carbone C., Rinaldi M., Decesari S., Sandrini S., Costabile F., Gobbi GP., Pietrogrande MC., Visentin M., Scotto F., Fuzzi S., Facchini MC.; Direct observation of aqueous secondary organic aerosol from biomass-burning emissions; *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*; 36; 10013-10018; 2016.
7. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 16; 8095-8108; 2016.
8. 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.; Größ, 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 16; 7295-7315; 2016.
9. 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; DOI:10.1038/srep14883; 2015.



10. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 15; 2629-2649; 2015.
1. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 15; 14; 8217-8299; 2015.
2. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 15; 19; 11327-11340; 2015.
3. 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.; Erisman, J.W.; Butterbach-Bahl, K.; Galloway, J.N; Effects of global change during the 21st century on the nitrogen cycle; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 15; 24; 13849-13893; 2015.
4. 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; *ENVIRONMENTAL SCIENCE & TECHNOLOGY*; 49; 24; 13964-13972; 2015.
5. 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; *ATMOS. CHEM. PHYS.*; 14; 1075-1092; 2014.
6. 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.
7. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 25-45; 2014.
8. 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 en the Po Valley, Italy; *SCIENCE OF THE TOTAL ENVIRONMENT*; 485–486; 103-109; 2014.
9. 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 (<sup>1</sup>H-NMR) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy); *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 5089-5110; 2014.
10. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 6967-6981; 2014.
  11. 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.
  12. 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?; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 10687-10704; 2014.
  13. 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 & TECHNOLOGY*; 48; 11127-11136; 2014.
  14. 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; *ATMOSPHERIC CHEMISTRY AND PHYSICS*; 14; 12109-12132; 2014.
  15. 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-ATMOSPHERES*; 118; 4964-4973; 2013.
  16. Landi, T.C., Curci, G., Carbone, C., Menut, 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.
  17. Meskhidze, N., Petters, M.D., Tsigaridis, K., Bates, T., O'Dowd, C., Reid, J., Lewis, E.R., Gantt, B., Anguelova, M.D., Bhave, 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; 207-213; 2013.
  18. 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; 8401-8421; 2012.
19. 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; 941-959; 2012.
  20. 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; DOI: 10.1029/2011JD016204; 2011.
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