

## Curriculum Vitae MATTEO RINALDI

### Personal information

Name: Matteo Rinaldi

Date of birth:

Place of Birth:

Nationality: Italian

Gender: Male

Researcher ID:

Working address: via P. Gobetti 101, 40129, Bologna (Italy)

Email:

### History of Employment:

2011 - ongoing	Researcher at CNR-ISAC, Bologna (Italy)
2006 - 2011	Research grant holder at CNR-ISAC, Bologna (Italy)
2005 - 2006	Research grant holder at University of Urbino, Urbino (Italy)

### Education

2009	PhD (Environmental Sciences)	University of Urbino (Italy)
	Thesis Title: "Marine aerosol: distinguishing properties of primary and secondary components"	
2005	Master degree (Environmental Sciences)	University of Urbino (Italy)

### Scientific/technical education

20/06/2011- 26/06/2011	Training course on the High Resolution Time of Flight Aerosol Mass Spectrometer (HR-ToF-AMS), at Aerodyne Research Inc., Boston, MA.
22/09/2008 - 26/09/2008	Summer school "Aerosols and Climate Change". Università of L'Aquila, Italy
07/01/2007 -10/02/2007	ERCA 2007 – "European Research Course on Atmospheres". University Joseph Fourier, Grenoble (France)
20/05/2006 – 26/05/2006	Measurements of atmospheric aerosols: Aerosol physics, sampling and measurement techniques. University of Helsinki, Finland

**Research Interests**

Aerosol Chemistry  
 Organic aerosol chemical composition  
 Aerosol formation and evolution processes  
 Air-Sea interaction and marine aerosol formation  
 Marine biota – aerosol interaction  
 Climate role of natural and anthropogenic aerosols  
 Oceanic biosphere – aerosol – cloud – climate feedbacks

**Coordinated projects**

- 2016-2018      AEROSOURCE - Source apportionment of air borne pollutants transported to and across Ireland using Aerosol Mass Spectrometry and Positive Matrix Factorization Techniques.  
 Funded by Irish EPA Research Programme 2014-2020.  
 Total funding of CNR-ISAC unit: 66 K€.  
 Role: PI of the CNR-ISAC research unit.
- 20-17-2019      ABBACO - Sperimentazioni Pilota Finalizzata al “Restauro Ambientale e Balneabilità del SIN Bagnoli-Coroglio”.  
 Funded by Italian Research and Education Ministry.  
 Total funding of CNR-ISAC unit: 60 K€.  
 Role: PI of the CNR-ISAC research unit.
- 2010              EUROCHAMP-2 Transnational Access Activity E2-2010-09-10-0043.  
 Funded by the European Community.  
 Total funding of the project: 8 K€.  
 Role: coordinator.

**Main participations in research projects**

- 1/11/2019 – ongoing      RHAPS - Redox-activity and Health-effects of Atmospheric Primary and Secondary aerosol  
 Funded by the Italian Research Ministry  
 Role: coordinator of the winter and summer aerosol measurement campaigns
- 1/10/2019 - ongoing      FORCES - Constrained aerosol forcing for improved climate projections  
 Funded by H2020-EU.3.5.1. - Fighting and adapting to climate change  
 Role: participant in atmospheric measurements campaigns and data analysis

1/1/2015 - 31/12/2018	Air-Sea Lab Funded by CNR Role: coordinator of the atmospheric measurements campaigns at 5 coastal locations
Nov 2016 - Dec 2018	City Tree Scaler Funded by Climate-Kic Role: design of the experimental approach, participation in the measurements, data elaborations
1/12/2013 - 31/05/2018	BACCHUS - Impact of Biogenic versus Anthropogenic emissions on Clouds and Climate: towards a Holistic UnderStanding Funded by FP7 (FP7-603445) FP7-ENVIRONMENT ENV.2013.6.1-2 Role: participation in the measurements campaign, data analysis
2011 – 2015	SUPERSITO Funded by Regione Emilia Romagna Role: participation in the set-up and realization of aerosol measurements campaigns and data analysis
01/01/2011 - 31/12/2014	PEGASOS - Pan-European gas-aerosols-climate interaction study Funded by FP7-ENV-2010-265148, FP7-ENVIRONMENT, ENV.2010.1.1.2-1 Role: participation in atmospheric measurement campaigns and data analysis
2008 – 2010	EASI-AQCIS - Exchange at the Air-Sea Interface: Air Quality & Climate ImpactS Funded by Irish EPA Role: participation in atmospheric measurement campaigns, laboratory experiments and data analysis
2006 – 2009	MAP - Marine Aerosol Production: Primary & Secondary Marine Aerosol Production from Natural Sources Funded by FP6 (FP6- 018332) FP6-2004-Global-3, SUSTDEV-3.1.2 Role: participation in land and ship-based atmospheric measurement campaign, laboratory experiments and data analysis

**Citation report (ISI WEB OF SCIENCE – updated Feb 2021)**

Total publications: 54

Sum of the Times Cited: 2.347 (Without self citations: 2.151)

Average Citations per Article: 43.46

h-index: 26

**Peer reviewed International Publications**

1. Mansour, K., Decesari, S., Facchini, MC., Belosi, F., Paglione, M., Sandrini, S., Bellacicco, M., Marullo, S., Santoleri, R., Ovadnevaite, J., Ceburnis, D., O'Dowd, C., Roberts, G., Sanchez, K., Rinaldi, M, 2020, Linking Marine Biological Activity to Aerosol Chemical Composition and Cloud-Relevant Properties Over the North Atlantic Ocean, JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 125, 13, , e2019JD032246, 10.1029/2019JD032246

2. Rinaldi, M., Paglione, M., Decesari, S., Harrison, RM., Beddows, DCS., Ovadnevaite, J., Ceburnis, D., O'Dowd, CD., Simo, R., Dall'Osto, M., 2020, Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica, ENVIRONMENTAL SCIENCE & TECHNOLOGY, 54, 13, 7807, 7817, 10.1021/acs.est.0c00695
3. Mansour, K., Decesari, S., Bellacicco, M., Marullo, S., Santoleri, R., Bonasoni, P., Facchini, MC., Ovadnevaite, J., Ceburnis, D., O'Dowd, C., Rinaldi, M., 2020, Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity, ATMOSPHERIC RESEARCH, 237, , 104837, 10.1016/j.atmosres.2019.104837
4. Merico, E., Grasso, FM., Cesari, D., Decesari, S., Belosi, F., Manarini, F., De Nuntiis, P., Rinaldi, M., Gambaro, A., Morabito, E., Contini, D., 2020, Characterisation of atmospheric pollution near an industrial site with a biogas production and combustion plant in southern Italy, SCIENCE OF THE TOTAL ENVIRONMENT, 717, , 137220, 10.1016/j.scitotenv.2020.137220
5. Decesari, S., Paglione, M., Rinaldi, M., Dall'Osto, M., Simo, R., Zanca, N., Volpi, F., Facchini, MC., Hoffmann, T., Gotz, S., Kampf, CJ., O'Dowd, C., Ceburnis, D., Ovadnevaite, J., Tagliavini, E., 2020, Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions, ATMOSPHERIC CHEMISTRY AND PHYSICS, 20, 7, 4193, 4207, 10.5194/acp-20-4193-2020
6. Paglione, M., Gilardoni, S., Rinaldi, M., Decesari, S., Zanca, N., Sandrini, S., Giulianelli, L., Bacco, D., Ferrari, S., Poluzzi, V., Scotto, F., Trentini, A., Poulain, L., Herrmann, H., Wiedensohler, A., Canonaco, F., Prevot, ASH., Massoli, P., Carbone, C., Facchini, MC., Fuzzi, S., 2020, The impact of biomass burning and aqueous-phase processing on air quality: a multi-year source apportionment study in the Po Valley, Italy, ATMOSPHERIC CHEMISTRY AND PHYSICS, 20, 3, 1233, 1254, 10.5194/acp-20-1233-2020
7. Lin, CS., Ceburnis, D., Huang, RJ., Xu, W., Spohn, T., Martin, D., Buckley, P., Wenger, J., Hellebust, S., Rinaldi, M., Facchini, MC., O'Dowd, C., Ovadnevaite, J., 2019, Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol, ATMOSPHERIC CHEMISTRY AND PHYSICS, 19, 22, 14091, 14106, 10.5194/acp-19-14091-2019
8. Dall'Osto, M., Ains, RL., Beale, R., Cree, C., Fitzsimons, MF., Beddows, D., Harrison, RM., Ceburnis, D., O'Dowd, C., Rinaldi, M., Paglione, M., Nenes, A., Decesari, S., Simo, R., 2019, Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment, ACS EARTH AND SPACE CHEMISTRY, 3, 5, 854, +, 10.1021/acsearthspacechem.9b00028
9. Rinaldi, M., Nicosia, A., Santachiara, G., Piazza, M., Paglione, M., Gilardoni, S., Sandrini, S., Cristofanelli, P., Marinoni, A., Bonasoni, P., Facchini, MC., Belosi, F., 2019, Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site, ATMOSPHERIC RESEARCH, 219, 57, 64, 10.1016/j.atmosres.2018.12.022
10. Lin, CS., Huang, RJ., Ceburnis, D., Buckley, P., Preissler, J., Wenger, J., Rinaldi, M., Facchini, MC., O'Dowd, C., Ovadnevaite, J., 2018, Extreme air pollution from residential solid fuel burning, NATURE SUSTAINABILITY, 1, 9, 512, 517, 10.1038/s41893-018-0125-x
11. Huang, WTK., Ickes, L., Tegen, I., Rinaldi, M., Ceburnis, D., Lohmann, U., 2018, Global relevance of marine organic aerosol as ice nucleating particles, ATMOSPHERIC CHEMISTRY AND PHYSICS, 18, 15, 11423, 11445, 10.5194/acp-18-11423-2018
12. McCluskey, CS., Ovadnevaite, J., Rinaldi, M., Atkinson, J., Belosi, F., Ceburnis, D., Marullo, S., Hill, TCJ., Lohmann, U., Kanji, ZA., O'Dowd, C., Kreidenweis, SM., DeMott, PJ., 2018, Marine and Terrestrial Organic Ice-Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses, JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 123, 11, 6196, 6212, D028033, 10.1029/2017JD028033
13. Rinaldi, M., Santachiara, G., Nicosia, A., Piazza, M., Decesari, S., Gilardoni, S., Paglione, M., Cristofanelli, P., Marinoni, A., Bonasoni, P., Belosi, F., 2017, Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy), ATMOSPHERIC ENVIRONMENT, 171, 173, 180, 10.1016/j.atmosenv.2017.10.027
14. Rastelli, E., Corinaldesi, C., Dell'Anno, A., Lo Martire, M., Greco, S., Facchini, MC., Rinaldi, M., O'Dowd, C., Ceburnis, D., Danovaro, R., 2017, Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach, SCIENTIFIC REPORTS, 7, , 11475, 10.1038/s41598-017-10563-z
15. Dall'Osto, M., Ovadnevaite, J., Paglione, M., Beddows, DCS., Ceburnis, D., Cree, C., Cortes, P., Zamanillo, M., Nunes, SO., Perez, GL., Ortega-Retuerta, E., Emelianov, M., Vaque, D., Marrase, C., Estrada, M., Sala, MM., Vidal, M., Fitzsimons, MF., Beale, R., Ains, R., Rinaldi, M., Decesari, S., Facchini, MC., Harrison, RM., O'Dowd, C., Simo, R., 2017, Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols, SCIENTIFIC REPORTS, 7, , 6047, 10.1038/s41598-017-06188-x
16. Ovadnevaite, J., Zuend, A., Laaksonen, A., Sanchez, KJ., Roberts, G., Ceburnis, D., Decesari, S., Rinaldi, M., Hodas, N., Facchini, MC., Seinfeld, JH., O'Dowd, C., 2017, Surface tension prevails over solute effect in organic-influenced cloud droplet activation, NATURE, 546, 7660, 637, 641, 10.1038/nature22806
17. Belosi, F., Rinaldi, M., Decesari, S., Tarozzi, L., Nicosia, A., Santachiara, G., 2017, Ground level ice nuclei particle measurements including Saharan dust events at a Po Valley rural site (San Pietro Capofiume, Italy), ATMOSPHERIC RESEARCH, 186, 116, 126, 10.1016/j.atmosres.2016.11.012
18. Vergara-Temprado, J., Murray, BJ., Wilson, TW., O'Sullivan, D., Browse, J., Pringle, KJ., Ardon-Dryer, K., Bertram, AK., Burrows, SM., Ceburnis, D., DeMott, PJ., Mason, RH., O'Dowd, CD., Rinaldi, M., Carslaw, KS., 2017, Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations, ATMOSPHERIC CHEMISTRY AND PHYSICS, 17, 5, 3637, 3658, 10.5194/acp-17-3637-2017
19. Ricciardelli, I., Bacco, D., Rinaldi, M., Bonafe, G., Scotto, F., Trentini, A., Bertacci, G., Ugolini, P., Zigola, C., Rovere, F., Maccone, C., Pironi, C., Poluzzi, V., 2017, A three-year investigation of daily PM2.5 main chemical components in four sites: the routine measurement program of the Supersito Project (Po Valley, Italy), ATMOSPHERIC ENVIRONMENT, 152, 418, 430, 10.1016/j.atmosenv.2016.12.052

20. Costabile, F., Gilardoni, S., Barnaba, F., Di Ianni, A., Di Liberto, L., Dionisi, D., Manigrasso, M., Paglione, M., Poluzzi, V., Rinaldi, M., Facchini, MC., Gobbi, GP, 2017, Characteristics of brown carbon in the urban Po Valley atmosphere, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 17, 1, 313, 326, 10.5194/acp-17-313-2017
21. Ceburnis, D., Rinaldi, M., Ovadnevaite, J., Martucci, G., Giulianelli, L., O'Dowd, CD, 2016, Marine submicron aerosol gradients, sources and sinks, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 16, 19, 12425, 12439, 10.5194/acp-16-12425-2016
22. 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, 2016, Direct observation of aqueous secondary organic aerosol from biomass-burning emissions, *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 113, 36, 10013, 10018, 10.1073/pnas.1602212113
23. Sandrini, S., van Pinxteren, D., Giulianelli, L., Herrmann, H., Poulain, L., Facchini, MC., Gilardoni, S., Rinaldi, M., Paglione, M., Turpin, BJ., Pollini, F., Bucci, S., Zanca, N., Decesari, S, 2016, 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, 17, 10879, 10897, 10.5194/acp-16-10879-2016
24. Cristofanelli, P., Landi, TC., Calzolari, F., Duchi, R., Marinoni, A., Rinaldi, M., Bonasoni, P, 2016, Summer atmospheric composition over the Mediterranean basin: Investigation on transport processes and pollutant export to the free troposphere by observations at the WMO/GAW Mt. Cimone global station (Italy, 2165 m a.s.l.), *ATMOSPHERIC ENVIRONMENT*, 141, 139, 152, 10.1016/j.atmosenv.2016.06.048
25. Sullivan, AP., Hodas, N., Turpin, BJ., Skog, K., Keutsch, FN., Gilardoni, S., Paglione, M., Rinaldi, M., Decesari, S., Facchini, MC., Poulain, L., Herrmann, H., Wiedensohler, A., Nemitz, E., Twigg, MM., Collett, JL, 2016, Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 16, 13, 8095, 8108, 10.5194/acp-16-8095-2016
26. Wolf, R., El Haddad, I., Crippa, M., Decesari, S., Slowik, JG., Poulain, L., Gilardoni, S., Rinaldi, M., Carbone, S., Canonaco, F., Huang, RJ., Baltensperger, U., Prevot, ASH, 2015, Marine and urban influences on summertime PM<sub>2.5</sub> aerosol in the Po basin using mobile measurements, *ATMOSPHERIC ENVIRONMENT*, 120, 447, 454, 10.1016/j.atmosenv.2015.09.007
27. O'Dowd, C., Ceburnis, D., Ovadnevaite, J., Bialek, J., Stengel, DB., Zacharias, M., Nitschke, U., Connan, S., Rinaldi, M., Fuzzi, S., Decesari, S., Facchini, MC., Marullo, S., Santoleri, R., Dell'Anno, A., Corinaldesi, C., Tangherlini, M., Danovaro, R, 2015, Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?, *SCIENTIFIC REPORTS*, 5, , 14883, 10.1038/srep14883
28. Rinaldi, M., Gilardoni, S., Paglione, M., Sandrini, S., Fuzzi, S., Massoli, P., Bonasoni, P., Cristofanelli, P., Marinoni, A., Poluzzi, V., Decesari, S, 2015, 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, 10.5194/acp-15-11327-2015
29. Fowler, D., Steadman, CE., Stevenson, D., Coyle, M., Rees, RM., Skiba, UM., Sutton, MA., Cape, JN., Dore, AJ., Vieno, M., Simpson, D., Zaehle, S., Stocker, BD., Rinaldi, M., Facchini, MC., Flechard, CR., Nemitz, E., Twigg, M., Erisman, JW., Butterbach-Bahl, K., Galloway, JN, 2015, Effects of global change during the 21st century on the nitrogen cycle, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 15, 24, 13849, 13893, 10.5194/acp-15-13849-2015
30. Giulianelli, L., Gilardoni, S., Tarozzi, L., Rinaldi, M., Decesari, S., Carbone, C., Facchini, MC., Fuzzi, S, 2014, Fog occurrence and chemical composition in the Po valley over the last twenty years, *ATMOSPHERIC ENVIRONMENT*, 98, 394, 401, 10.1016/j.atmosenv.2014.08.080
31. Montero-Martinez, G., Rinaldi, M., Gilardoni, S., Giulianelli, L., Paglione, M., Decesari, S., Fuzzi, S., Facchini, MC, 2014, 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, 103, 109, 10.1016/j.scitotenv.2014.03.060
32. Carbone, C., Decesari, S., Paglione, M., Giulianelli, L., Rinaldi, M., Marinoni, A., Cristofanelli, P., Didiodato, A., Bonasoni, P., Fuzzi, S., Facchini, MC, 2014, 3-year chemical composition of free tropospheric PM<sub>1</sub> at the Mt. Cimone GAW global station - South Europe - 2165 m a.s.l., *ATMOSPHERIC ENVIRONMENT*, 87, 218, 227, 10.1016/j.atmosenv.2014.01.048
33. O'Dowd, C., Ceburnis, D., Ovadnevaite, J., Vaishya, A., Rinaldi, M., Facchini, MC, 2014, Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 14, 19, 10687, 10704, 10.5194/acp-14-10687-2014
34. Gilardoni, S., Massoli, P., Giulianelli, L., Rinaldi, M., Paglione, M., Pollini, F., Lanconelli, C., Poluzzi, V., Carbone, S., Hillamo, R., Russell, LM., Facchini, MC., Fuzzi, S, 2014, Fog scavenging of organic and inorganic aerosol in the Po Valley, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 14, 13, 6967, 6981, 10.5194/acp-14-6967-2014
35. de Leeuw, G., Guieu, C., Arneth, A., Bellouin, N., Bopp, L., Boyd, PW., van der Gon, HACD., Desboeufs, KV., Dulac, F., Facchini, MC., Gantt, B., Langmann, B., Mahowald, NM., Maranon, E., O'Dowd, C., Olgun, N., Pulido-Villena, E., Rinaldi, M., Stephanou, EG., Wagener, T, 2014, Ocean-Atmosphere Interactions of Particles, *OCEAN-ATMOSPHERE INTERACTIONS OF GASES AND PARTICLES*, , 171, 246, 10.1007/978-3-642-25643-1\_4
36. Meskhidze, N., Petters, MD., Tsigaridis, K., Bates, T., O'Dowd, C., Reid, J., Lewis, ER., Gantt, B., Anguelova, MD., Bhawe, PV., Bird, J., Callaghan, AH., Ceburnis, D., Chang, R., Clarke, A., de Leeuw, G., Deane, G., DeMott, PJ., Elliot, S., Facchini, MC., Fairall, CW., Hawkins, L., Hu, YX., Hudson, JG., Johnson, MS., Kaku, KC., Keene, WC., Kieber, DJ., Long, MS., Martensson, M., Modini, RL., Osburn, CL., Prather, KA., Pszenny, A., Rinaldi, M., Russell, LM., Salter, M., Sayer, AM., Smirnov, A., Suda, SR., Toth, TD., Worsnop, DR., Wozniak, A., Zorn, SR, 2013, Production mechanisms, number concentration, size distribution, chemical composition, and optical properties of sea spray aerosols, *ATMOSPHERIC SCIENCE LETTERS*, 14, 4, 207, 213, 10.1002/asl2.441

37. Rinaldi, M., Fuzzi, S., Decesari, S., Marullo, S., Santoleri, R., Provenza, A., von Hardenberg, J., Ceburnis, D., Vaishya, A., O'Dowd, CD., Facchini, MC, 2013, Is chlorophyll-a the best surrogate for organic matter enrichment in submicron primary marine aerosol?, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 118, 10, 4964, 4973, 10.1002/jgrd.50417
38. Decesari, S., Finessi, E., Rinaldi, M., Paglione, M., Fuzzi, S., Stephanou, EG., Tziaras, T., Spyros, A., Ceburnis, D., O'Dowd, C., Dall'Osto, M., Harrison, RM., Allan, J., Coe, H., Facchini, MC, 2011, Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 116, , D22210, 10.1029/2011JD016204
39. Ovadnevaite, J., Ceburnis, D., Martucci, G., Bialek, J., Monahan, C., Rinaldi, M., Facchini, MC., Berresheim, H., Worsnop, DR., O'Dowd, C, 2011, Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity, *GEOPHYSICAL RESEARCH LETTERS*, 38, , L21806, 10.1029/2011GL048869
40. Rinaldi, M., Decesari, S., Carbone, C., Finessi, E., Fuzzi, S., Ceburnis, D., O'Dowd, CD., Sciare, J., Burrows, JP., Vrekoussis, M., Ervens, B., Tsigaridis, K., Facchini, MC, 2011, Evidence of a natural marine source of oxalic acid and a possible link to glyoxal, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 116, , D16204, 10.1029/2011JD015659
41. Ceburnis, D., Garbaras, A., Szidat, S., Rinaldi, M., Fahrni, S., Perron, N., Wacker, L., Leinert, S., Remeikis, V., Facchini, MC., Prevot, ASH., Jennings, SG., Ramonet, M., O'Dowd, CD, 2011, 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, 10.5194/acp-11-8593-2011
42. Gantt, B., Meskhidze, N., Facchini, MC., Rinaldi, M., Ceburnis, D., O'Dowd, CD, 2011, Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 11, 16, 8777, 8790, 10.5194/acp-11-8777-2011
43. 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, GP., Angelini, F., Facchini, MC, 2010, Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions, *ATMOSPHERIC ENVIRONMENT*, 44, 39, 5269, 5278, 10.1016/j.atmosenv.2010.08.008
44. Vignati, E., Facchini, MC., Rinaldi, M., Scannell, C., Ceburnis, D., Sciare, J., Kanakidou, M., Myriokefalitakis, S., Dentener, F., O'Dowd, CD, 2010, Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment, *ATMOSPHERIC ENVIRONMENT*, 44, 5, 670, 677, 10.1016/j.atmosenv.2009.11.013
45. Myriokefalitakis, S., Vignati, E., Tsigaridis, K., Papadimas, C., Sciare, J., Mihalopoulos, N., Facchini, MC., Rinaldi, M., Dentener, FJ., Ceburnis, D., Hatzianastasiou, N., O'Dowd, CD., van Weele, M., Kanakidou, M, 2010, Global Modeling of the Oceanic Source of Organic Aerosols, *ADVANCES IN METEOROLOGY*, 2010, , 939171, 10.1155/2010/939171
46. Rinaldi, M., Decesari, S., Finessi, E., Giulianelli, L., Carbone, C., Fuzzi, S., O'Dowd, CD., Ceburnis, D., Facchini, MC, 2010, Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies, *ADVANCES IN METEOROLOGY*, 2010, , 310682, 10.1155/2010/310682
47. Decesari, S., Facchini, MC., Carbone, C., Giulianelli, L., Rinaldi, M., Finessi, E., Fuzzi, S., Marinoni, A., Cristofanelli, P., Duchi, R., Bonasoni, P., Vuillermoz, E., Cozic, J., Jaffrezo, JL., Laj, P, 2010, 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, 10.5194/acp-10-4583-2010
48. Dall'Osto, M., Ceburnis, D., Martucci, G., Bialek, J., Dupuy, R., Jennings, SG., Berresheim, H., Wenger, J., Healy, R., Facchini, MC., Rinaldi, M., Giulianelli, L., Finessi, E., Worsnop, D., Ehn, M., Mikki, J., Kulmala, M., O'Dowd, CD, 2010, Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 10, 17, 8413, 8435, 10.5194/acp-10-8413-2010
49. Rinaldi, M., Facchini, MC., Decesari, S., Carbone, C., Finessi, E., Mircea, M., Fuzzi, S., Ceburnis, D., Ehn, M., Kulmala, M., de Leeuw, G., O'Dowd, CD, 2009, On the representativeness of coastal aerosol studies to open ocean studies: Mace Head - a case study, *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 9, 24, 9635, 9646, 10.5194/acp-9-9635-2009
50. Facchini, MC., Decesari, S., Rinaldi, M., Carbone, C., Finessi, E., Mircea, M., Fuzzi, S., Moretti, F., Tagliavini, E., Ceburnis, D., O'Dowd, CD, 2008, Important Source of Marine Secondary Organic Aerosol from Biogenic Amines, *ENVIRONMENTAL SCIENCE & TECHNOLOGY*, 42, 24, 9116, 9121, 10.1021/es8018385
51. Facchini, MC., Rinaldi, M., Decesari, S., Carbone, C., Finessi, E., Mircea, M., Fuzzi, S., Ceburnis, D., Flanagan, R., Nilsson, ED., de Leeuw, G., Martino, M., Woeltjen, J., O'Dowd, CD, 2008, Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates, *GEOPHYSICAL RESEARCH LETTERS*, 35, 17, , L17814, 10.1029/2008GL034210
52. Moretti, F., Tagliavini, E., Decesari, S., Facchini, MC., Rinaldi, M., Fuzzi, S, 2008, 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, 10.1021/es703166v
53. Rinaldi, M., Emblico, L., Decesari, S., Fuzzi, S., Facchini, MC., Librando, V, 2007, Chemical characterization and source apportionment of size-segregated aerosol collected at an urban site in Sicily, *WATER AIR AND SOIL POLLUTION*, 185, 1-4, 311, 321, 10.1007/s11270-007-9455-4
54. Mancinelli, V., Rinaldi, M., Finessi, E., Emblico, L., Mircea, M., Fuzzi, S., Facchini, MC., Decesari, S, 2007, An anion-exchange high-performance liquid chromatography method coupled to total organic carbon determination for the analysis of water-soluble organic aerosols, *JOURNAL OF CHROMATOGRAPHY A*, 1149, 2, 385, 389, 10.1016/j.chroma.2007.02.111