

## Dr.Öğr.Üyesi ROSA MARIA FLORES RANGEL

### Kişisel Bilgiler

**E-posta:** rflores@marmara.edu.tr

**Web:** <https://avesis.marmara.edu.tr/rflores>

### Biyografi

Rosa Flores is an assistant professor at Marmara University in Istanbul, Turkey. Her research focuses on chemical characterization of organic and inorganic species in both the aerosol- and gas-phases. She has a particular interest on method development and the use of advanced techniques to improve our understanding of organic aerosol transformation at high time resolution. She enjoys teaching, writing, and having long walks in the forest, although her favorite spot is the beach.

### Eğitim Bilgileri

Doktora, Michigan Technological University, Amerika Birleşik Devletleri 2008 - 2013

Yüksek Lisans, CICATA-IPN Altamira, Meksika 2004 - 2006

Lisans, Instituto Tecnológico de Ciudad Madero, Meksika 1998 - 2002

### Yaptığı Tezler

Doktora, Terpene and Terpenoid Emissions and Secondary Organic Aerosol Production, Michigan Technological University, 2013

Yüksek Lisans, Metals in Particulate Matter PM10 Suspended in the Air of Southern Tamaulipas During 2004, CICATA-IPN Altamira, 2006

### Araştırma Alanları

Atmosfer Bilimleri ve Meteoroloji Mühendisliği, Çevre Mühendisliği, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Yrd.Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2014 - Devam Ediyor

### Yönetilen Tezler

FLORES RANGEL R. M. , Characterization of semi volatile organic compounds in fine atmospheric particles, Yüksek Lisans, E.Mertoğlu(Öğrenci), 2019

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Distribution and sources of SVOCs in fine and coarse aerosols in the megacity of Istanbul**  
FLORES RANGEL R. M. , Özdemir H., Ünal A., TAYANÇ M.  
Atmospheric Research, cilt.271, 2022 (SCI Expanded İndekslerine Giren Dergi)
- II. **Chemical characterization of water-soluble ions in highly time-resolved atmospheric fine particles in Istanbul megacity**  
Flores Rangel R. M.  
ENVIRONMENTAL POLLUTION (1970), cilt.1, sa.1, ss.1-3, 2022 (SCI Expanded İndekslerine Giren Dergi)
- III. **A holistic approach to the air quality of Konya City, Turkey**  
TAYANÇ M., Sezen İ., Ünal A., FLORES RANGEL R. M. , Karanfil S.  
Air Quality, Atmosphere and Health, 2022 (SCI İndekslerine Giren Dergi)
- IV. **Vapor- and aerosol-phase atmospheric organic matter in urban air of the Midwest USA**  
Flores R. M. , Doskey P. V.  
Atmospheric Environment, cilt.264, 2021 (SCI Expanded İndekslerine Giren Dergi)
- V. **Characterization and ozone formation potential (OFP) of non-methane hydrocarbons under the condition of chemical loss in Guangzhou, China**  
Zou Y., Charlesworth E., Wang N., Flores R. M. , Liu Q. Q. , Li F., Deng T., Deng X. J.  
Atmospheric Environment, cilt.262, 2021 (SCI Expanded İndekslerine Giren Dergi)
- VI. **Seasonal variation of carbonaceous PM2.5 in an Istanbul traffic site**  
Flores R. M. , Ozdemir H., AKKOYUNLU B. O. , Ünal A., TAYANÇ M.  
ATMOSPHERIC POLLUTION RESEARCH, cilt.11, sa.12, ss.2110-2118, 2020 (SCI İndekslerine Giren Dergi)
- VII. **Optimization of a thermal desorption-gas chromatography/mass spectrometry method for characterization of semi-volatile organic compounds in high time resolved PM2.5**  
FLORES RANGEL R. M. , Mertoglu E.  
ATMOSPHERIC POLLUTION RESEARCH, cilt.11, sa.3, ss.619-629, 2020 (SCI İndekslerine Giren Dergi)
- VIII. **A high-time resolution study of PM2.5, organic carbon, and elemental carbon at an urban traffic site in Istanbul**  
FLORES RANGEL R. M. , Mertoglu E., ÖZDEMİR H., AKKOYUNLU B. O. , Demir G., Ünal A., TAYANÇ M.  
ATMOSPHERIC ENVIRONMENT, cilt.223, 2020 (SCI İndekslerine Giren Dergi)
- IX. **The effect of mineral dust transport on PM10 concentrations and physical properties in Istanbul during 2007-2014**  
Flores R. M. , Kaya N., Eser O., Saltan S.  
ATMOSPHERIC RESEARCH, cilt.197, ss.342-355, 2017 (SCI İndekslerine Giren Dergi)
- X. **Sources of trace metals in PM10 from a petrochemical industrial complex in Northern Mexico**  
Rodriguez-Espinosa P. F. , Flores-Rangel R. M. , Mugica-Alvarez V., Morales-Garcia S. S.  
AIR QUALITY ATMOSPHERE AND HEALTH, cilt.10, sa.1, ss.69-84, 2017 (SCI İndekslerine Giren Dergi)
- XI. **Evaluation of multistep derivatization methods for identification and quantification of oxygenated species in organic aerosol**  
FLORES RANGEL R. M. , Doskey P. V.  
Journal Of Chromatography A, cilt.1418, ss.1-11, 2015 (SCI Expanded İndekslerine Giren Dergi)
- XII. **Temporal variation of PM10 and metal concentrations in Tampico Mexico**  
FLORES RANGEL R. M. , RodriguezEspinosa P., Montes de Oca J., Mugica V., OrtizRomero M., Navarrete M., Dorantes H., Morales S.  
Air Quality Atmosphere and Health, cilt.8, ss.367-378, 2015 (SCI Expanded İndekslerine Giren Dergi)
- XIII. **Estimating terpene and terpenoid emissions from conifer oleoresin composition**  
FLORES RANGEL R. M. , Doskey P. V.  
Atmospheric Environment, cilt.113, ss.32-40, 2015 (SCI Expanded İndekslerine Giren Dergi)
- XIV. **Using multidimensional gas chromatography to group secondary organic aerosol species by functionality**  
FLORES RANGEL R. M. , Doskey P. V.  
Atmospheric Environment, cilt.96, ss.310-321, 2014 (SCI Expanded İndekslerine Giren Dergi)
- XV. **Metal Content in Air Samples Collected in an Urban Zone in Tampico México A First Survey**

FLORES RANGEL R. M. , Rodriguez P., Montes de Oca J., Mugica V., OrtizRomeroVargas E., NavarreteLopez M., Hector D.  
Human And Ecological Risk Assessment, cilt.13, ss.1359-1372, 2007 (SCI Expanded İndekslerine Giren Dergi)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **General Assessment of PM10 And SO2 in Ağrı**  
KARA Y., ÇİVİCİ M., KARTUM U., FLORES RANGEL R. M.  
International Journal of Advances in Engineering and Pure Sciences, cilt.34, ss.1-2, 2022 (Hakemli Üniversite Dergisi)
- II. **Representation of the Diurnal Distribution of Organic Aerosol by Multidimensional Liquid Chromatography Systems**  
Mertoglu E., Flores Rangel R. M.  
International Journal of Advances in Engineering and Pure Sciences, cilt.33, sa.2, ss.277-286, 2021 (Hakemli Üniversite Dergisi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Evaluation of Multidimensional Liquid Chromatography Systems to Model Separation and Evolution of Organic Aerosol in the Atmosphere**  
FLORES RANGEL R. M.  
2.International Environmental Chemistry Congress, 31 Ekim - 03 Kasım 2019, ss.22
- II. **Ion composition of the daily PM10 samples collected at Kırklareli Turkey**  
Çetin B., Saka E. H. , Cicerali M. F. , ORUÇ H. N. , FLORES RANGEL R. M. , AKKOYUNLU B. O. , TAYANÇ M.  
18th World Clean Air Congress, 23 - 27 Eylül 2019, ss.72
- III. **A STUDY OF METALIC COMPOSITION IN THE DAILY PM2.5 SAMPLES AT KIRKLARELI, TURKEY**  
N ORUÇ H., ÖZDEMİR H., FLORES RANGEL R. M. , SEZEN İ., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
18th WORLD CLEAN AIR CONGRESS 2019, 23 - 27 Eylül 2019
- IV. **Seasonality of PM 2.5 and its organic fraction in a traffic site in Besiktas, Istanbul**  
FLORES RANGEL R. M. , MERTOĞLU E., ÖZDEMİR H., AKKOYUNLU B. O. , ÜNAL A., TAYANÇ M.  
18th World Clean Air Congress 2019, 23 - 27 Eylül 2019
- V. **Diurnal and seasonal variations of primary and secondary organic carbon at an urban traffic site in Istanbul**  
FLORES RANGEL R. M. , Mertoglu E., Pursa A., Özdemir H., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
European Geophysical Union General Assembly 2019, 7 - 12 Nisan 2019
- VI. **DISTRIBUTION OF SVOCs IN FINE AND COARSE PARTICULATE MATTER INA TRAFFIC SITE IN THE MEGACITY OF ISTANBU**  
FLORES RANGEL R. M. , Özdemir H., AKKOYUNLU B. O. , ÜNAL A., TAYANÇ M.  
18th World Clean Air Congress, Istanbul, Turkey, 23-27 September 2019, 23 Eylül - 27 Ocak 2019
- VII. **Study of Particulate Matter in Kırklareli, Turkey with Meteorological Factors**  
FLORES RANGEL R. M. , özdemir h., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 Kasım 2018
- VIII. **PM 2.5 Analysis and the Determination of PAH Constituents at a Densely Populated Area of Istanbul**  
FLORES RANGEL R. M. , özdemir h., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 Kasım 2018
- IX. **PM2.5 Analysis and the Determination of PAH Constituents at a Densely Populated Area of Istanbul**  
FLORES RANGEL R. M. , ÖZDEMİR H., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
10th Better Air Quality Conference 2018, 14 - 16 Kasım 2018
- X. **Characterization of Semi-Volatile Organic Compounds in Fine Atmospheric Particles**

Mertoglu E., FLORES RANGEL R. M. , Pursa A., Özdemir H., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
3rd International Mediterranean Science and Engineering Congress, 24 - 26 Ekim 2018

- XI. **Diurnal Variation of Semi-Volatile Organic Compounds associated to PM<sub>2.5</sub> in a traffic-influenced area in Istanbul**  
FLORES RANGEL R. M. , Nafile Y., Mertoglu E., Özdemir H., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
European Geophysical Union General Assembly 2018, 8 - 13 Nisan 2018
- XII. **EVALUATION OF A THERMAL DESORPTION METHOD FOR COMPLETE CHARACTERIZATION OF ORGANIC AEROSOLS**  
GÖK A. E. , FLORES RANGEL R. M. , ÖZDEMİR H., AKKOYUNLU B. O. , DEMİR G., ÜNAL A., TAYANÇ M.  
8th Atmospheric Sciences Symposium, 1 - 04 Kasım 2017
- XIII. **Contribution of desert dust transport to daily PM<sub>10</sub> concentrations in Aksaray, Istanbul: A long term study**  
FLORES RANGEL R. M. , Kaya N., Eser O., Saltan S.  
International workshop on Middle East Dust Sources and Impacts, 23 - 25 Ekim 2017
- XIV. **Semi-volatile Organic Aerosol Composition in High-Time Resolved Ambient Air PM<sub>2.5</sub> Samples: Preliminary Results**  
Gök A., FLORES RANGEL R. M. , ÖZDEMİR H., AKKOYUNLU B. O. , DEMİR G., TAYANÇ M.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 Mayıs 2017, ss.2998
- XV. **Temporal Variation of PM<sub>10</sub> concentration and properties in Istanbul 2007-2015**  
FLORES RANGEL R. M. , Kaya N., Eser O., Saltan S.  
Geophysical Union General Assembly 2017, 23 - 28 Nisan 2017
- XVI. **Diurnal Variation of Organic Aerosol in Urban East St Louis II**  
FLORES RANGEL R. M. , Doskey P.  
VII Atmospheric Science Symposium, 28 - 30 Nisan 2015, cilt.1
- XVII. **My Experience during the Ph D at Michigan Technological University**  
FLORES RANGEL R. M.  
Invited talk at CIEEMAD-IPN National Polytechnic Institute, Meksika, 10 - 11 Eylül 2013
- XVIII. **Studies of Air Quality Atmospheric Organic Matter in the Midwestern United States Methods and Measurements**  
FLORES RANGEL R. M.  
Invited talk at CIEEMAD-IPN National Polytechnic Institute, Meksika, 10 - 11 Eylül 2013
- XIX. **Managing the complexity of secondary organic aerosol species produced by forest emissions with GC 2GC**  
FLORES RANGEL R. M. , Perlinger J., Doskey P.  
8th Annual ESC/BRC Graduate Research Forum at Michigan Tech, Türkiye, 30 Mart 2012
- XX. **On Line supercritical fluid extraction with gas chromatographic mass spectrometric analysis of Biogenic SOA**  
FLORES RANGEL R. M. , Perlinger J., Doskey P.  
7th Annual ESC/BRC Graduate Research Forum at Michigan Tech, Türkiye, 25 Mart 2011
- XXI. **Estimates of total molecular polarity to evaluate atmospheric evolution of organic aerosol**  
Perlinger J., Doskey P., FLORES RANGEL R. M. , Zhang B., Murray K.  
European Geophysical Union 2011, 3 - 08 Nisan 2011
- XXII. **Supercritical fluid extraction of biogenic SOA in Northern Michigan**  
FLORES RANGEL R. M. , Doskey P., Perlinger J.  
2010 American Geophysical Union Fall Meeting, 13 - 17 Aralık 2010
- XXIII. **Description of organic aerosol diagenesis with a GC 2GC retention diagram**  
FLORES RANGEL R. M. , Zhang B., Murray K.  
2011 American Geophysical Union Fall Meeting, 5 - 09 Aralık 2010
- XXIV. **Quantification of terpenes by 1DGC MS and 2DGC TOF MS**  
FLORES RANGEL R. M. , Perlinger J., Doskey P.  
6th Annual ESC/BRC Graduate Research Forum at Michigan Tech, Türkiye, 27 - 23 Mart 2010

- XXV. **Identification of terpenes and sesquiterpenes by 1DGC MS and 2DGC TOF MS**  
FLORES RANGEL R. M. , Perlinger J., Doskey P.  
2009 American Geophysical Union Fall Meeting, 13 - 17 Aralık 2009
- XXVI. **Analysis of Mn Pb and Ni in PM10 in Tampico during 2004**  
FLORES RANGEL R. M.  
II Congreso Nacional Estudiantil de Invesstigacion (II National Conference for Science Students) at CICATA-IPN-Queretaro, Meksika, 17 - 19 Ekim 2007
- XXVII. **Geographic information system applied to urban aerosols in Altamira Mexico**  
FLORES RANGEL R. M. , Pedro R., Montes de Oca J., Mugica V., Ortiz E.  
100th Annual Conference and Exhibition of the Air and Waste Management Association, 26 - 29 Haziran 2007, cilt.6
- XXVIII. **Application of receptor models for the identification of metal sources in Tampico Mexico 2007**  
FLORES RANGEL R. M. , Rodriguez P., Montes de Oca J., Mugica V., Ortiz E.  
2007 American Geophysical Union Spring Meeting, 22 - 25 Mayıs 2007
- XXIX. **Metal distribution in PM10 during the MILAGRO campaign in Tamaulipas Mexico**  
Rodriguez P., FLORES RANGEL R. M. , Montes de Oca J., Mugica V., Ortiz E.  
2nd MILAGRO Science Conference Meeting, 15 - 18 Mayıs 2007
- XXX. **Metal Content in Tampico TamaulipasEvaluacion del contenido de metales en PM10 en Tampico Tamaulipas**  
FLORES RANGEL R. M. , Rodriguez P., Montes de Oca J., Mugica V., Ortiz E.  
VI Simposio de Contaminación Atmosférica, 17 - 19 Nisan 2007
- XXXI. **Air Quality Criteria in Tampico Preliminary Results**  
FLORES RANGEL R. M.  
Simposio Sobre Medio Ambiente en la Zona Conurbada del Sur de Tamaulipas, Meksika, 13 Temmuz 2006
- XXXII. **Geographic Information System Applied to Urban Aerosols in Altamira Mexico**  
Violeta M., Ortiz E., FLORES RANGEL R. M. , Rodriguez P., Montes de Oca J.  
100th Annual Conference and Exhibition of the Air and Waste Management Association, 26 Haziran 2007 - 29 Haziran 2006
- XXXIII. **Metals in PM10 suspended in the atmosphere of Tampico Metales en Material Particulado Menor a 10 m PM10 Suspendido en la Atmósfera de Tampico**  
FLORES RANGEL R. M.  
II congreso de Ecotoxicología y Química Ambiental, Puebla, Meksika, 28 Nisan 2006
- XXXIV. **Air Quality Criteria Criterios de Calidad del Aire**  
FLORES RANGEL R. M.  
Invited talk to Asociation of Professionists at National Polytechnic Institute (Asociación de Profesionistas del Instituto Politécnico Nacional Tampico, A.C), Meksika, 10 Şubat 2006
- XXXV. **Metals in Patticulate matter smaller than 10um in Tampico**  
FLORES RANGEL R. M.  
Invited Talk at Youth Simposium on Environment 2005 (Cumbre Juvenil Ambiental 2005), Meksika, 13 - 14 Aralık 2005
- XXXVI. **Metals in Particulate Matter smaller than 10um PM10 Suspended in the Atmosphere of Tampico**  
FLORES RANGEL R. M.  
First National Conference of Science Students, IPN, Meksika, 12 - 14 Eylül 2005
- XXXVII. **Metals in Sdimented Particulate Matter smaller than 10 um in Tampico**  
FLORES RANGEL R. M.  
II National Conference of Geoscience Engineering, Cd. Madero, Tamps., Meksika, 17 Mayıs 2005

## Desteklenen Projeler

Flores Rangel R. M. , TÜBİTAK - AB COST Projesi , Chemical composition of high-time resolved fine aerosol (PM2.5) in

Istanbul, 2019 - 2022

Flores Rangel R. M. , Yükseköğretim Kurumları Destekli Proje, Characterization and source apportionment of organic aerosol in Istanbul atmosphere: Beşiktaş case study, 2018 - 2020

Flores Rangel R. M. , Yükseköğretim Kurumları Destekli Proje, Characterization of Semi-Volatile Organic Compounds in Fine Atmospheric Particles, 2018 - 2020

Flores Rangel R. M. , Akkoyunlu B. O. , TÜBİTAK Projesi, The Particulate matter and bulk accumulation study in Kırklareli: Evaluation of pollutant pollution in urban and rural areas by statistics and physical models, 2017 - 2020

Flores Rangel R. M. , TÜBİTAK Projesi, Investigation of PM2.5 and hourly volatile organic compounds in atmospheric aerosols, 2016 - 2019

Flores Rangel R. M. , TÜBİTAK Projesi, Using multidimensional liquid chromatography (2D-LC) systems to model separation and represent evolution of organic aerosol, 2017 - 2018

Flores Rangel R. M. , Yükseköğretim Kurumları Destekli Proje, Method development and validation of a thermal desorption method (TD-GC-MS) for characterization of semi-volatile organic compounds in ambient air, 2017 - 2018

## Atıflar

Toplam Atıf Sayısı (WOS):73

h-indeksi (WOS):6