

Part A. Personal Information

DATE	28/09/2018
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Surname(s)	Viana Rodríguez	
Forename	María del Mar	
Social Security, Passport, ID number	04847443D	
Sex	F	
Age	41	
Researcher codes	WoS Researcher ID (*)	L-5600-2014
	SCOPUS Author ID(*)	
	Open Researcher and Contributor ID (ORCID)	0000-0002-4073-3802

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	Staff researcher	
UNESCO Code	250604, 250105, 250902	
Key Words	Air pollution, air quality, indoor and outdoor air, impacts on health, exposure, workplace exposure, ultrafine particles, nanoparticles, burden of disease, environmental policy, source apportionment, carbonaceous aerosols, geochemistry of atmospheric particulate matter, aerosol transport and modelling, sampling artefacts, air pollution mitigation strategies, process-related and engineered nanoparticles.	
Name of the University/Institution	IDAEA-CSIC	
Department/Centre	Insto. Diagnóstico Ambiental y Estudios del Agua	
	Full Address	Jordi Girona 18
	Email Address	Mar.viana@idaea.csic.es
	Phone Number	+394006126
Start date	13/08/2012	

A.2. Education (title, institution, date)

Year	University	Degree	Title
1999	Universidad Autónoma de Madrid	Environmental Science	MSc
2000	Universidad Autónoma de Madrid	Master in Environmental GEochimistry	Master
2003	Universidad de Barcelona	PhD in GEology	PhD

A.3. Indicators of Quality in Scientific Production (See the instructions)

- Number of recognized research 6-year periods: 2 (2001-2006, 2007-2012), recognized in June 2014.
- Supervision of PhD theses: 2 (2 additional in progress).
- Total citations: 7287 (Scopus, September 2018)
- Average quotations/article: 58
- Number of SCI publications: 126 (31 as first author)
- Total publications in the first quartile (Q1): 110
- Index h: 50
- Book Editor: 5 (3 international, 2 national).
- Participation in the organization of scientific events: international congress "Indoor and Workplace Aerosols 2016" (www.aerosols2016.eu); organizer of the Advanced Training

School (ATC1) international course "Techniques for Monitoring air pollutants including aerosols indoors / outdoors", within the framework of the European project Marie Curie ITN HEXACOMM, among others.

Part B. Free Summary of CV (Max. of 3.500 characters, including spaces)

Dr. Mar Viana is a full-time researcher (*Investigadora Científica*) at the Institute for Environmental Assessment and Water Studies of the CSIC (IDAEA-CSIC) in Barcelona. She was previously a “Ramón y Cajal” tenured researcher at the Institute of Earth Sciences Jaume Almera (ICTJA) of CSIC in Barcelona and at IDAEA-CSIC, and a postdoctoral researcher funded by the Ministry of Science and Innovation at the Energy Research Center of The Netherlands (supervisor: Dr. Harry Ten Brink, 06/2005 to 06/2006) and at the Institute for Nuclear Sciences, Ghent University (Belgium, supervisor: Prof. Willy Maenhaut, 06/2004 to 06/2005). She completed her doctoral thesis work at ICTJA, obtaining an Excellent cum laude qualification unanimously by the University of Barcelona in December 2003.

Her main lines of research have been air pollution, atmospheric aerosols, exposure, indoor and outdoor air quality, identification and contribution of emission sources, characterization of carbonaceous aerosols, transport processes and sampling devices. Since 2012, she has developed a new line of research in her research group related to nanoparticles, characterizing both their formation and emission processes as well as personal exposure to this type of emerging pollutant. This line of research focuses mainly on indoor environments, specifically in industrial environments. She has applied her research to harbour environments, resulting in peer-reviewed publications and reports for the European Environment Agency.

She has published 126 papers in international journals of the Science Citation Index (SCI), in addition to 8 papers in non-SCI journals. She has also published 17 chapters in international books and 7 in national books, and is editor of two volumes included in the prestigious series "The Handbook of Environmental Chemistry", Springer Eds: "Air Quality in Europe" and "Nanoparticles in indoor and outdoor air". Her "h" index is 50, with a total of 7287 citations (Scopus, September 2018). She is currently Vice-Chair of UN Environment's Scientific Advisory Panel (SAP) for the Global Environmental Outlook 6 report (GEO6).

Part C. Relevant accomplishments

C.1. Publications

1. Salmatondis A., Viana M., Pérez N., Alastuey A., de la Fuente G.F., Angurel L.A., Sanfélix V., Monfort E. (2018) Nanoparticle formation and emission during laser ablation of ceramic tiles. *Journal of Aerosol Science*, in press (IF2016: 2.281, Q2).
2. M. Viana, P. Hammingh, A. Colette, X. Querol, B. Degraeuwe, I. de Vlieger, J. van Aardenne (2014) Impact of maritime transport emissions on coastal air quality in Europe. *ATMOSPHERIC ENVIRONMENT*, 90, 96-105 (IF2014: 3.062).
3. M. Viana, P. Hammingh, A. Colette, X. Querol, B. Degraeuwe, I. de Vlieger, J. van Aardenne (2014) Impact of maritime transport emissions on coastal air quality in Europe. *ATMOSPHERIC ENVIRONMENT*, 90, 96-105 (IF2014: 3.062, Q1).
4. Viana M., Fonseca A.S., Querol X., López-Lilao A., Carpio P., Salmatondis A., Monfort E. (2017) Workplace exposure and release of ultrafine particles during atmospheric plasma spraying in the ceramic industry. *SCIENCE OF THE TOTAL ENVIRONMENT*, 599–600 (2017) 2065–2073 (IF2017: 4.900, Q1, D1).
5. M. Viana, Editora del volumen “Air Quality in Europe”. Review Series “The Handbook of Environmental Chemistry”, Springer Eds., Life Sciences, Chemistry, Biomedicine. ISBN: 978-3-642-38450-9 (Print) 978-3-642-38451-6 (Online).
6. A. Ripoll, M. Viana*, M. Padrosa, X. Querol, A. Minutolo, K. M. Hou, J. M. Barcelo-Ordinas, J. Garcia-Vidal (2019) Testing the performance of sensors for ozone pollution monitoring in a citizen science approach. *SCIENCE OF THE TOTAL ENVIRONMENT* 651, 1166-1179. (IF2017: 4.610, Q1).
7. C. Ribalta, A. J. Koivisto, A. López-Lilao, S. Estupiñá, M. C. Minguillón, E. Monfort, M. Viana (2018) Testing the performance of one and two box models as tools for risk assessment of particle exposure during packing of inorganic fertilizer. *SCIENCE OF THE TOTAL ENVIRONMENT*, submitted. (IF2017: 4.610, Q1)

8. Ribalta C., Viana M., López-Lilao A., Estupiñá S., Minguillón M.C., Dahmann D., Monfort. E (2018) On the relationship between exposure to particles and dustiness during handling of powders in industrial settings. ANNALS OF WORK EXPOSURES AND HEALTH, in press. (IF2016: 1.710, Q2)
9. Viana M., Fonseca A.S., Querol X., López-Lilao A., Carpio P., Salmatondis A., Monfort E. (2017) Workplace exposure and release of ultrafine particles during atmospheric plasma spraying in the ceramic industry. SCIENCE OF THE TOTAL ENVIRONMENT, 599–600 (2017) 2065–2073 (IF2015: 3.976, Q1).
10. Candela de la Sota, Moustapha Kane, Javier Mazorra, Julio Lumbreiras, Issakha Youm, Mar Viana (2017) Intercomparison of methods to estimate black carbon emissions from cookstoves. SCIENCE OF THE TOTAL ENVIRONMENT, in press (IF2015: 3.976, Q1).
11. M. Viana, I. Rivas, X. Querol, A. Alastuey, M. Álvarez-Pedrerol, L. Bouso, C. Sioutas, J. Sunyer (2014) Partitioning of trace elements and metals between quasi-ultrafine, accumulation and coarse aerosols in indoor and outdoor air in schools. ATMOSPHERIC ENVIRONMENT, DOI: 10.1016/j.atmosenv.2014.07.027 (IF2014: 3.062).
12. M. Viana, I. Rivas, X. Querol, A. Alastuey, J. Sunyer, M. Álvarez-Pedrerol, L. Bouso, C. Sioutas (2014) Indoor/outdoor relationships and mass closure of quasi-ultrafine, accumulation and coarse mode particles in Barcelona schools. ATMOS. CHEM. PHYS., 14, 4459-4472, doi:10.5194/acp-14-4459-2014 (IF2014: 5.298).
13. Viana M., Díez S., Reche C. (2011) Indoor and outdoor sources and infiltration processes of PM1 and black carbon in an urban environment. ATMOSPHERIC ENVIRONMENT 45, 6359-6367 (IF2011: 3.226).
14. Viana M., Amato M., Alastuey A., Querol X., García S., Herce M.D., Fernández-Patier R. (2009) Chemical tracers of particulate emissions from commercial shipping, ENVIRONMENTAL SCIENCE AND TECHNOLOGY 43, 7472-7477 (IF2009: 4.531).
15. Viana M., Kuhlbusch T.A.J., Querol X., Alastuey A., Harrison R., Hopke P.K., Winiwarter W., Vallius M., Szidat S., Prévôt A.S.H., Hueglin C., Bloemen H., Wählén P., Vecchi R., Miranda A.I., Kasper-Giebl A., Maenhaut W., Hitzenberger R (2008) Source apportionment of PM in Europe: methods and results. JOURNAL OF AEROSOL SCIENCE 39, 827-849 (IF2008: 2.239).

C.2. Research Projects and Grants

1. ERANET SIINN project “Safe production and Use of Nanomaterials in the Ceramic Industry CERASAFE”. Coordinator: Mar Viana (IDAEA-CSIC). Partners: Universidade de Lisboa, Portugal; Nova ID. FCT, Portugal; Institute of Ceramic Technology, Spain; Babes - Bolyai University, Romania; INSA, Portugal; University of Littoral Côte d’Opale, France. ERANET SIINN call 2015, project ID: 16. Total budget: 751510€. Budget CSIC: 181655€. Duration: December 2015–November 2018.
2. Collective Awareness Platform for Tropospheric Ozone Pollution (CAPTOR), H2020-ICT-2015 CAPS call. Coordinator: Polytechnical University of Catalonia (Prof. Jorge García), 8 partners including CSIC. PI CSIC: Mar Viana. Total budget: 1.960.293€; budget CSIC: 180.398€. Duration: 01/01/2016 – 31/12/2018.
3. Predicción de emisiones y exposición a partículas micro y nanométricas en ambientes industriales (PREDEXPIN). Proyecto coordinado, convocatoria PROGRAMA ESTATAL DE I+D+I ORIENTADA A LOS RETOS DE LA SOCIEDAD. Coordinator and CSIC PI: Mar Viana (IDAEA-CSIC). CGL2015-66777-C2-1-R. Partner: Institute of Ceramic Technology, Spain. Budget: 105270€. Duration: January 2016–December 2017.
4. Impacto de las emisiones de Material Particulado atmosférico en aire Ambiente sobre la Calidad del aire en escuelas infanTiles: nuevos parámetros de medida y relaciones indoor/outdoor (IMPACT). Investigador Principal: M. Viana. Convocatoria Plan Nacional 2011, Ayudas de Proyectos de Investigación Fundamental no orientada. Presupuesto concedido: 132.000€. Duración: enero 2012 - diciembre 2014. CGL2011-26574. Fecha finalización: diciembre 2014. Concedido.
5. Evaluación integral del impacto de las emisiones de partículas de los automóviles en la calidad del aire urbano (Ref. B026/2007/3-10.1). Financiación: Ministerio de Medio Ambiente. Investigador Principal: M. Viana. Duración desde diciembre de 2007 hasta diciembre de 2010. Presupuesto concedido: 200.798€. Concedido.
6. EU Marie Curie Initial Training Network (ITN) HEXACOMM: Initial Training for Aerosol Indoor Air Quality. Coordinador: Mihalis Lazaridis, Universidad de Creta (Grecia). Investigador principal: Xavier Querol. Gestión del proyecto e investigadora responsable de la tesis doctoral

asociada: M. Viana. Fecha de inicio: octubre de 2012; fecha de finalización: abril de 2015. Presupuesto concedido: 474.000€. Concedido.

7. AirMonTech: Project number 265116. Project title AirMonTech—Air Quality Monitoring Technologies for Urban Areas. Call (part) identifier FP7-ENV-2010. Funding scheme Coordination and support action. Subvención CSIC: 102.944,57€. Subvención total: 997.552,16€. Coordinador: Dr. Thomas Kuhlbusch Institute of Energy and Environmental Technology – IUTA, Germany. IP: Xavier Querol. Gestión del proyecto y desarrollo de los trabajos científicos: Mar Viana. Concedido.

8. European Topic Centre on Air pollution and climate change mitigation 2011-2018 (ETC/ACM). Código: JMC/GMC/OCO - ETC/ACM. Entidad financiadora: Agencia Europea de Medio Ambiente. Subvención CSIC: 32.000 euros en 2013 (renovable por cuantías similares cada año hasta 2018). Investigador principal: M. Viana. Concedido.

9. Convenio Bilateral CSIC - Russian Foundation for Basic Research: Fundamentals for production of carbon nanoparticle reference materials for air quality monitoring. Investigadores principales: Xavier Querol y Mar Viana. Duración: febrero de 2011 a Febrero de 2013. Subvención total del proyecto: 27.774€. Concedido.

10. ERC Consolidator grant 2016 CLEANAIR: evaluated as “A” proposal in both phases and recommended for funding but on reserve list due to lack on funds.

C.3. Contracts

1. Nuevas herramientas para la evaluación de la calidad el aire urbano. January 2016-December 2016. Fundación BBVA, convocatoria 2015. Total funding: 34750€. PI: Mar Viana.

2. Análisis del potencial de mitigación de sustancias de efecto invernadero de las cocinas mejoradas en hogares rurales de la región de Cassamance en África del Oeste. IP: Julio Lumbreras (Universidad Politécnica de Madrid, UPM). PI CSIC: M. Viana. Fundación Iberdrola. Presupuesto total: 20.000€. Duración: septiembre de 2014 a agosto de 2015.

3. Estudio del uso de combustibles sólidos con fines residenciales en entornos urbanos en Europa. Contrato con Fundación Gas Natural Fenosa. Julio de 2013. Importe: 12.792,12€.

C.5. Invited presentations

1. M. Viana (2018) Health benefits of air quality mitigation strategies in Europe: case studies ISES-ISEE BenMAP User Symposium. Conference of the International Society for Environmental Epidemiology (ISEE2018), Ottawa, Canada, August 27th 2018.

2. M. Viana (2017) Impact of maritime transport emissions on coastal air quality in Europe. Shipping And The Environment, From Regional to Global Perspectives. Gothenburg, Sweden, October 24th, 2017.

3. M. Viana et al. (2017) Occupational exposure to nanoparticles: monitoring and management in industrial settings. 8th Nanotechnology, Occupational and Environmental Health conference, May 29th to June 1st 2017, Elsinore, Denmark.

4. M. Viana (2016) Field measurements in facilities manufacturing and processing ceramic materials. NanoIndex Project Final Workshop, Berlin, 30-31 May 2016.

5. M. Viana, A. et al. (2016) Occupational exposure to process generated nanoparticles: the case of the ceramic industry. International Conference of Environmental and Occupational Health (Icoetox). 22-24 June 2016, Porto, Portugal.

8. M. Viana (2015) Nanoparticle detection and monitoring in workplace environments. HEXACOMM Advanced Training Course 3 (ATC3), Helsinki, Finland, 10-12 June 2015.

9. M. Viana (2014) Environmental and health benefits from an emission control area in the Marmara Sea. Better Air Quality Conference (BAQ2014), Sri Lanka, Nov. 19-21 2014.

C.6. Participation in international committees

1. Vice-Chair of the Scientific Advisory Panel (SAP) of UN Environment's Global Environmental Outlook 6 (GEO6).

2. Member of the EU NanoSafety Cluster Steering Committee.

3. Spanish representative in 2 COST Actions (633 and TD1105), ESF.

C.7. Experience in organisation of R+D activities

1. Guest Editor in 2 special issues in SCI journals Science of the Total Environment, and Atmosphere.

2. Chair and organizer of the 4th Indoor and Workplace Aerosols Conference, Barcelona, April 2016.

3. Organizer of the 1st National Workshop on Nanosafety, Barcelona, May 2015.