



MINISTERIO DE CIENCIA E INNOVACION

Currículum vitae

Nombre: Rafael Marcé Romero

Fecha: 31 de marzo de 2014

PERSONAL INFORMATION

Surnames: MARCE ROMERO Name: RAFAEL
ID number/Passport: 46747362T Date of birth: 15/03/1974 Gender: Man
Nationality: Spanish

ACTUAL PROFESSIONAL STATUS

Organization: Institut Català de Recerca de l'Aigua (Catalan Institute for Water Research, ICRA)
Postal address: Edifici H₂O, Parc Científic i Tecnològic de la Universitat de Girona, C/Emili Grahit, 101, 17003 Girona
Country: SPAIN
Position: Research Scientist
Start Date: 09/01/2009
Phone number (Add number and extension): 972183380
Fax: 972183248
E-mail: rmarce@icra.cat

Specialization (UNESCO codes): 2417.04 Limnología, 2417.13 Ecología Vegetal, 2417.90 Fijación y Movilización Biológica de Nutrientes, 2508.05 Hidrobiología, 2508.08 Limnología, 2508.11 Calidad de las Aguas, 3308.11 Control de la Contaminación del Agua

Professional category and starting date: Research Scientist - 09/01/2009

Administrative status

Template - Other situation -	Contracted X specify	Temporary -	Scholarship holder -
Dedication	Full time X Part time -		

PRESENT RESEARCH AREA

Brief summary (key words).

Reservoir limnology, metabolic balances, watershed scale models, model calibration, fuzzy logic, hydrology, hydrodynamics, nutrient loads, nutrient spiralling, hypolimnetic anoxia, physical-biological coupling, plankton distribution

ACADEMIC TRAINING

<u>Bachelors Degree</u>	<u>Center</u>	<u>Date</u>
BSc in Biology	Universitat de Barcelona	1999
MSc in Experimental Biology	Universitat de Barcelona	2000
Diploma de Estudios Avanzados en Ecología	Universitat de Barcelona	2002

<u>Doctorate</u>	<u>Center</u>	<u>Supervisor</u>	<u>Date</u>
Doctor (Ecology)	Universitat de Barcelona	Joan Armengol	2007
European Doctorate	Universitat de Barcelona	Joan Armengol	2007

PREVIOUS SCIENTIFIC ACTIVITIES (*)

<u>Activity</u>	<u>Center/Institution</u>	<u>Dates</u>
Grantee for Research Projects	Universitat de Barcelona	1999 - 2000
Grantee from Programa de Formación de Profesorado Universitario (FPU) program	Universitat de Barcelona	2001 - 2005
Research Assistant	Parque Científico de Barcelona	2005 - 2008
Teacher Assistant	Universitat de Barcelona	2005 - present

Languages of scientific interest (*Normal, Good, Perfectly*)

<u>Language</u>	<u>Speak</u>	<u>Read</u>	<u>Write</u>
Catalan	P	P	P
Spanish	P	P	P
English	P	P	P
French	N	N	N

PARTICIPATION IN RESEARCH PROJECTS

Title of the project / contract: Efecto de los embalses en el comportamiento natural de los ríos. Aplicación a los ríos Ter y tramo inferior del Ebro

Financing Firm/administration: Comisión Interministerial de Ciencia y Tecnología (CICYT)

Number of the project / contract: HID99-0599-C02-01 **Amount:** 54.091.090,00 **Duration, since:** 2000 **Until:** 2001

Main researcher: Juan Armengol Bachero

Title of the project / contract: Grup de Recerca en Ecologia Aquàtica Continental (GREAC)

Financing Firm/administration: Departament d'Universitats, Recerca i Societat de la Informació (Generalitat de Catalunya) DURSI

Number of the project / contract: 2001SGR00104 **Amount:** 42.070,85 **Duration, since:** 2001 **Until:** 2005

Main researcher: Juan Armengol Bachero

Title of the project / contract: Improved reservoir water destratification

Financing Firm/administration: Comisión Europea

Number of the project / contract: EVK1-CT-2000-30007 **Amount:** 161.800,00 **Duration, since:** 2001 **Until:** 2003

Main researcher: Juan Armengol Bachero

Title of the project / contract: Ajut per a la Constitució del Centre Espacial de Recerca d'Ecologia i Gestió de l'Aigua

Financing Firm/administration: Universitat de Barcelona

Number of the project / contract: 301476 Bosch i Gimpera **Amount:** 24.040,48 **Duration, since:** 2001 **Until:** 2004

Main researcher: Juan Armengol Bachero

Title of the project / contract: Los embalses como discontinuidad en la dinámica del río: comportamiento térmico, ecológico y transporte de sólidos en suspensión. Aplicación a los ríos Ter y tramo inferior del Ebro

Financing Firm/administration: Ministerio de Ciencia y Tecnología.

Number of the project / contract: CGL2004-5503-C02-01/HID **Amount:** 102.000,00 **Duration, since:** 2005 **Until:** 2007

Main researcher: Juan Armengol Bachero

Title of the project / contract: Los embalses como discontinuidad en la dinámica del río: Comportamientos térmico, ecológico y transporte de sólidos en suspensión.

Financing Firm/administration: Comisión Interministerial de Ciencia y Tecnología (CICYT)

Number of the project / contract: REN2001-2185-C02-02/HID **Amount:** 94.500,00 **Duration, since:** 2002 **Until:** 2004

Main researcher: Juan Armengol Bachero

Title of the project / contract: Gestión hidráulica y técnicas de detección remota aplicada al control de poblaciones de mejillón cebra: el caso del embalse de Ribarroja y el tramo inferior del Ebro

Financing Firm/administration: : Secretaría General de Territorio y Biodiversidad (Ministerio de Medio Ambiente)

Number of the project / contract: 010/SGTB/2007/1.1 **Amount:** **Duration, since:** 2007 **Until:** 2009

Main researcher: Juan Armengol Bachero

Title of the project / contract: Criterios limnológicos para la gestión sostenible de embalses. Casos de Ribarroja (río Ebro) y Sau (río Ter)

Financing Firm/administration: Ministerio de Ciencia y Innovación

Number of the project / contract: CGL2008-06377-C02-01/BTE **Amount:** 124000 € **Duration, since:** 2009 **Until:** 2011

Main researcher: Juan Armengol Bachero

Title of the project / contract: Assessment and prediction of global change effects on water quantity and quality in Iberian rivers (SCARCE)

Financing Firm/administration: Ministerio de Ciencia y Innovación

Number of the project / contract: CONSOLIDER CSD2009-00065 **Amount:** 3.700.000 € **Duration, since:** 2009 **Until:** 2014

Main researcher: Damià Barceló Culleres

Title of the project / contract: Emergence of Antibiotic Resistance in water supply Reservoirs: relevance for public health and ecosystem functioning

Financing Firm/administration: Institut Català de Recerca de l'Aigua

Number of the project / contract: RES² **Amount:** 35000 € **Duration, since:** April 2010 **Until:** December 2010

Main researcher: Rafael Marcé Romero

Title of the project / contract: Carbon transport and use through river networks: the relevance of global change (CARBONET)

Financing Firm/administration: Ministerio de Ciencia y Innovación

Number of the project / contract: CGL2011-30474-C02-01 **Amount:** 177.870€ **Duration, since:** 2012 **Until:** 2014

Main researcher: Sergi Sabater Cortés

Title of the project / contract: Managing the effects of multiple stressors on aquatic ecosystems under water scarcity (GLOBAQUA)

Financing Firm/administration: EU-FP7

Number of the project / contract: 603629 **Amount:** 7.590.588€ **Duration, since:** 2014 **Until:** 2019

Main researcher: Damià Barceló Culleres

Title of the project / contract: Climate change impacts in the Guadalquivir Basin (LICUA)

Financing Firm/administration: Junta de Andalucía

Number of the project / contract: P11-RNM-7941 **Amount:** 178.396€ **Duration, since:** 2013 **Until:** 2017

Main researcher: María Jesús Esteban Parra

Title of the project / contract: Networking Lake Observatories in Europe (NETLAKE)

Financing Firm/administration: EU-COST Office

Number of the project / contract: ES 1201 **Amount:** 520.000€ **Duration, since:** 2012 **Until:** 2016

Main researcher: Eleanor Jennings

PUBLICATIONS

Write volume, initial and end pages (year) and key.

KEY: book, book chapter, article, review, editor.

Authors (signature): Petrovic, M, Ginebreda, A, Acuna, V, Batalla, RJ, Elosegi, A, Guasch, H, de Alda, ML, Marcé, R, Munoz, I, Navarro-Ortega, A, Navarro, E, Vericat, D, Sabater, S, Barcelo, D

Title: Combined scenarios of chemical and ecological quality under water scarcity in Mediterranean rivers

Journal: Trac-Trends in Analytical Chemistry

Volume: 30 **Number:** --- **Pages, Initial:** 1269 **final:** 1278 **Year:** 2011

Key: A **Most outstanding aspects:** ISI Impact Factor= 6.602, 1st quartile in ANALYTICAL CHEMISTRY

Authors (signature): Marcé R, Rodríguez-Arias MA, Gracia JC, and Armengol J

Title: El Niño Southern Oscillation and climate trends impact reservoir water quality

Journal: Global Change Biology

Volume: 16 **Number:** --- **Pages, Initial:** 2857 **final:** 2865 **Year:** 2010

Key: A **Most outstanding aspects:** ISI Impact Factor= 6.346, 1st quartile in ECOLOGY

Authors (signature): Becker V, Caputo L, Ordóñez J, Marcé R, Armengol J, Crossetti LO, Huszar V

Title: Driving factors of the phytoplankton functional groups in a deep Mediterranean reservoir

Journal: Water Research

Volume: 44 **Number:** --- **Pages, Initial:** 3345 **final:** 3354 **Year:** 2010

Key: A **Most outstanding aspects:** ISI Impact Factor= 4.546, 1st quartile in WATER RESOURCES

Authors (signature): Aldekoa, Joana; Medici, Chiara; Osorio, Victoria; Pérez, Sandra; Marcé, Rafael; Barceló, Damià; Francés, Felix

Title: Modelling the emerging pollutant diclofenac with the GREAT-ER model: Application to the Llobregat River Basin

Journal: Journal of Hazardous Materials

Volume: 263 **Number:** --- **Pages, Initial:** 207 **final:** 213 **Year:** 2013

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.925, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Simek K, Comerma M, García JC, Nedoma J, Marcé R, Armengol J

Title: The Effect of River Water Circulation on the Distribution and Functioning of Reservoir Microbial Communities as Determined by a Relative Distance Approach

Journal: Ecosystems

Volume: 14 **Number:** --- **Pages, Initial:** 1 **final:** 14 **Year:** 2011

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.679, 1st quartile in ECOLOGY

Authors (signature): Marcé R, Moreno-Ostos E, López P, and Armengol J

Title: The Role of Allochthonous Inputs of Dissolved Organic Carbon on the Hypolimnetic Oxygen Content of Reservoirs

Journal: Ecosystems

Volume: 11 **Number:** --- **Pages, Initial:** 1035 **final:** 1053 **Year:** 2008

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.679, 1st quartile in ECOLOGY

Authors (signature): López P, Marcé R, and Armengol J

Title: Net heterotrophy and CO₂ evasion from a productive calcareous reservoir: adding complexity to the metabolism-CO₂ evasion issue

Journal: Journal of Geophysical Research - Biogeosciences

Volume: 116 **Number:** --- **Pages, Initial:** G02021 **final:** --- **Year:** 2011

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.303, 1st quartile in GEOSCIENCES, MULTIDISCIPLINARY

Authors (signature): Huerta B, Martí E, Gros M, López P, Pompeo M, Armengol J, Barceló D, Balcázar JL, Rodríguez-Mozaz S, and Marcé R

Title: Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs

Journal: Science of the Total Environment

Volume: 456-457 **Number:** --- **Pages, Initial:** 161 **final:** 170 **Year:** 2013

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.286, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Aguilera R, Marcé R, and Sabater S

Title: Linking in-stream nutrient flux to land use and inter-annual hydrological variability at the watershed scale

Journal: Science of the Total Environment

Volume: 440 **Number:** --- **Pages, Initial:** 72 **final:** 81 **Year:** 2012

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.286, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Osorio V, Marcé R, Pérez S, Ginebreda A, Cortina JL, and Barceló D

Title: Occurrence and modeling of pharmaceuticals on a sewage-impacted Mediterranean river and their dynamics under different hydrological conditions.

Journal: Science of the Total Environment

Volume: 440 **Number:** --- **Pages, Initial:** 3 **final:** 13 **Year:** 2012

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.286, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Boithias, L.; Acuña, V.; Vergoños, L.; Ziv, Gay; Marcé, Rafael; Sabater, Sergi

Title: Assessment of the water supply:demand ratios in a Mediterranean basin under different global change scenarios and mitigation alternatives.

Journal: Science of the Total Environment

Volume: 470/471 **Number:** --- **Pages, Initial:** 567 **final:** 577 **Year:** 2014

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.258, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Aguilera R, Marcé R, and Sabater S

Title: Modeling nutrient retention at the watershed scale: Does small stream research apply to the whole river network?

Journal: Journal of Geophysical Research: Biogeosciences

Volume: 118 **Number:** --- **Pages, Initial:** 728 **final:** 740 **Year:** 2013

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.174, 1st quartile in GEOSCIENCES; MULTIDISCIPLINARY

Authors (signature): Marcé R, Feijoó C, Navarro E, Ordoñez J, Gomà J, and Armengol J

Title: Interaction between wind-induced seiches and convective cooling governs the spatial distribution of algae in a canyon-shaped reservoir.

Journal: Freshwater Biology

Volume: 52 **Number:** --- **Pages, Initial:** 1336 **final:** 1352 **Year:** 2007

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.082, 1st quartile in MARINE AND FRESHWATER BIOLOGY

Authors (signature): Leon-Munoz, Jorge; Echeverria, Cristian; Marcé, Rafael; Risse, Wolfgang; Shermanf, Bradford ; Iriarte, Jose Luis

Title: The combined impact of land use change and aquaculture on sediment and water quality in oligotrophic Lake Rupanco (North Patagonia, Chile, 40.8 degrees S)

Journal: Journal of Environmental Management

Volume: 128 **Number:** --- **Pages, Initial:** 283 **final:** 291 **Year:** 2013

Key: A **Most outstanding aspects:** ISI Impact Factor= 3.057, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Andraddottir HO, Rueda FJ, Armengol J, and Marcé R

Title: Characterization of residence time variability in a managed monomictic reservoir

Journal: Water Resources Research

Volume: 48 **Number:** --- **Pages, Initial:** W11505 **final:** **Year:** 2012

Key: A **Most outstanding aspects:** ISI Impact Factor= 2.957, 1st quartile in WATER RESOURCES

Authors (signature): Rigosi A, Marcé R, Escot C, and Rueda FJ

Title: A calibration strategy for dynamic succession models including several phytoplankton groups

Journal: Environmental Modelling & Software

Volume: 26 **Number:** --- **Pages, Initial:** 697 **final:** 710 **Year:** 2011

Key: A **Most outstanding aspects:** ISI Impact Factor= 2.871, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Marcé R, Ruiz CE, and Armengol J.

Title: Using spatially distributed parameters and multi-response objective functions to solve parameterization of complex applications of semidistributed hydrological models.

Journal: Water Resources Research

Volume: 44 **Number:** --- **Pages, Initial:** W02436 **final:** --- **Year:** 2008

Key: A **Most outstanding aspects:** ISI Impact Factor=2.737, 1st quartile in WATER RESOURCES

Authors (signature): Honey-Rosés J, Acuña V, Bardina M, Brozovic N, Marcé R, Munné A, Sabater S, Termes M, Valero F, Vega A, and Schneider D

Title: Examining the Demand for Ecosystem Services: The Value of Stream Restoration for Drinking Water Treatment Managers in the Llobregat River, Spain

Journal: Ecological Economics

Volume: 90 **Number:** --- **Pages, Initial:** 196 **final:** 205 **Year:** 2013

Key: A **Most outstanding aspects:** ISI Impact Factor=2.713, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Marcé R, Moreno-Ostos E, García-Barcina JM, Armengol J

Title: Tailoring dam structures to water quality predictions in new reservoir projects: Assisting decision-making using numerical modeling

Journal: Journal of Environmental Management

Volume: 91 **Number:** --- **Pages, Initial:** 1255 **final:** 1267 **Year:** 2010

Key: A **Most outstanding aspects:** ISI Impact Factor=2.597, 1st quartile in ENVIRONMENTAL SCIENCES

Authors (signature): Marcé R and Armengol J
Title: Modeling nutrient in-stream processes at the watershed scale using Nutrient Spiralling metrics
Journal: Hydrology and Earth System Sciences
Volume: 13 **Number:** --- **Pages, Initial:** 953 **final:** 967 **Year:** 2009
Key: A **Most outstanding aspects:** ISI Impact Factor=2.463, 1st quartile in WATER RESOURCES

Authors (signature): Vidal J, Marcé R, Serra T, Colomer J, Rueda F, Casamitjana X
Title: Localized algal blooms induced by river inflows in a canyon type reservoir
Journal: Aquatic Sciences
Volume: Number: 74 **Pages, Initial:**315 **final:** 327 **Year:** 2012
Key: A **Most outstanding aspects:** ISI Impact Factor= 2.106, 1st quartile in LIMNOLOGY

Authors (signature): Marcé R, and Armengol J
Title: Modeling river water temperature using deterministic, empirical, and hybrid formulations in a Mediterranean stream.
Journal: Hydrological Processes
Volume: 22 **Number:** --- **Pages, Initial:** 10.1002/hyp.695 **final:** --- **Year:** 2008
Key: A **Most outstanding aspects:** ISI Impact Factor=2.068, 1st quartile in WATER RESOURCES

Authors (signature): Ordóñez J, Armengol J, Moreno-Ostos E, Caputo L, García JC, Marcé R
Title: On non-Eltonian methods of hunting Cladocera, or impacts of the introduction of planktivorous fish on zooplankton composition and clear-water phase occurrence in a Mediterranean reservoir
Journal: Hydrobiologia
Volume: 653 **Number:** --- **Pages, Initial:** 119 **final:** 129 **Year:** 2010
Key: A **Most outstanding aspects:** ISI Impact Factor=1.964, 2nd quartile in MARINE & FRESHWATER BIOLOGY

Authors (signature): Marcé R, Comerma M., Garcia JC., and Armengol J
Title: A neuro-fuzzy modeling tool to estimate fluvial nutrient loads in watersheds under time-varying human impact.
Journal: Limnology and Oceanography: Methods
Volume: 2 **Number:** --- **Pages, Initial:** 342 **final:** 355 **Year:** 2004
Key: A **Most outstanding aspects:** ISI Impact Factor=1.823, 1st quartile in LIMNOLOGY

Authors (signature): Moreno-Ostos E, Marcé R, Ordóñez J, Dolz J, and Armengol J
Title: Hydraulic management drives heat budgets and temperature trends in a mediterranean reservoir.
Journal: International Review of Hydrobiology
Volume: 93 **Number:** --- **Pages, Initial:** 131 **final:** 147 **Year:** 2008
Key: A **Most outstanding aspects:** ISI Impact Factor=1.480, 2nd quartile in MARINE & FRESHWATER BIOLOGY

Authors (signature): Gallart F, Delgado J, Beatson SJV, Posner H, Llorens P, Marcé R
Title: Analysing the effect of global change on the historical trends of water resources in the headwaters of the Llobregat and Ter river basins (Catalonia, Spain)
Journal: Physics and Chemistry of the Earth
Volume: 36 **Number:** **Pages, Initial:** 655 **final:** 661 **Year:** 2011
Key: A **Most outstanding aspects:** ISI Impact Factor= 0.917, 3rd quartile in GEOSCIENCES, MULTIDISCIPLINARY

Authors (signature): Leon-Munoz, Jorge; Marcé, Rafael; Iriarte, Jose Luis
Title: Influence of hydrological regime of an Andean river on salinity, temperature and oxygen in a Patagonia fjord, Chile
Journal: New Zealand Journal of Marine and Freshwater Research
Volume: 47 **Number:** **Pages, Initial:** 515 **final:** 528 **Year:** 2013
Key: A **Most outstanding aspects:** ISI Impact Factor= 0.882, 3rd quartile in MARINE AND FRSHWATER BIOLOGY

Authors (signature): Marcé R, Moreno-Ostos E, and Armengol J
Title: The role of river inputs on the hypolimnetic chemistry of a productive reservoir: implications for management of anoxia and total phosphorus internal loading
Journal: Lake and Reservoir Management
Volume: 24 **Number:** 1 **Pages, Initial:** 95 **final:** 106 **Year:** 2008
Key: A **Most outstanding aspects:** ISI Impact Factor=0.543, 4th quartile in WATER RESOURCES

Authors (signature): Lopez P, Marcé R, Ordóñez J, Urrutia I, and Armengol J.
Title: Sedimentary phosphorus in a chain of five reservoirs (Lozoya River, central Spain)
Journal: Lake and Reservoir Management
Volume: 23 **Number:** --- **Pages, Initial:** 39 **final:** 48 **Year:** 2009
Key: A **Most outstanding aspects:** ISI Impact Factor=0.543, 4th quartile in WATER RESOURCES

Authors (signature): Navarro E, Caputo L, Marcé R, Carol J, Benejam L, García-Berthou E, Armengol J
Title: Ecological classification of a set of Mediterranean reservoirs applying the EU Water Framework Directive: a reasonable compromise between science and management
Journal: Lake and Reservoir Management
Volume: 25 **Number:** --- **Pages, Initial:** 1 **final:** 13 **Year:** 2009
Key: A **Most outstanding aspects:** ISI Impact Factor=0.543, 4th quartile in WATER RESOURCES

Authors (signature): Vidal J, Colomer J, Serra T, Marcé R, Rueda F, and Casamitjana X
Title: Phytoplankton bloom response to a fluctuating river inflow
Journal: Verh. Internat. Verein. Limnol.
Volume: 30 **Number:** --- **Pages, Initial:** 690 **final:** 694 **Year:** 2009
Key: A **Most outstanding aspects:** High standard and highly cited proceedings from SIL.

Authors (signature): Marcé R, Comerma M, García JC, Gomà J, and Armengol J
Title: Limnology of Foix Reservoir (Barcelona, Spain).
Journal: Limnética
Volume: 19 **Number:** --- **Pages, Initial:** 175 **final:** 191 **Year:** 2000
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Marcé R, Comerma M, García JC, Gomà J, and Armengol J
Title: The zooplankton community in a small, hypertrophic mediterranean reservoir (Foix reservoir, NE Spain).
Journal: Limnética
Volume: 24 **Number:** 3-4 **Pages, Initial:** 275 **final:** 294 **Year:** 2005
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Armengol J, Caputo L, Comerma M, Feijó C, García JC, Marcé R, Navarro E, and Ordoñez J
Title: Sau Reservoir's light climate: relationships between Secchi depth and light extinction coefficient.
Journal: Limnética
Volume: 23 **Number:** --- **Pages, Initial:** 199 **final:** 215 **Year:** 2004
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Feijó C, Comerma M, Marcé R, García JC, Balayla D, Navarro E, and Armengol J
Title: Influence of phosphorus and irradiance on phytoplanktonic chlorophyll-a concentration and phosphorus contents at a diel scale in a Mediterranean reservoir
Journal: Limnética
Volume: 27 **Number:** --- **Pages, Initial:** 329 **final:** 342 **Year:** 2008
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Marcé R, Moreno-Ostos E, Ordoñez J, Feijó C, Navarro E, Caputo L, and Armengol J
Title: Nutrient fluxes through boundaries in the hypolimnion of Sau reservoir: expected patterns and unanticipated processes.
Journal: Limnética
Volume: 25 **Number:** --- **Pages, Initial:** 527 **final:** 540 **Year:** 2006
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Lopez P, Navarro E, Marcé R, Ordoñez J, Caputo L, and Armengol J
Title: Elemental ratios in sediments as indicators of ecological processes in Spanish reservoirs.
Journal: Limnética
Volume: 25 **Number:** --- **Pages, Initial:** 499 **final:** 512 **Year:** 2006
Key: A **Most outstanding aspects:** High standard publication – first ISI impact factor in 2011: 0.421, 4th quartile in LIMONOLGY

Authors (signature): Marcé R and Armengol J
Title: L'embassament de Foix: una nova terra promesa per la microfauna aquàtica?
Journal: Monografies. Servei de Parcs Naturals, Diputació de Barcelona I trobada d'estudiosos del Foix.
Volume: 40 **Number:** --- **Pages, Initial:** 25 **final:** 27 **Year:** 2005
Key: A **Most outstanding aspects:** High quality local publication

Authors (signature): Armengol, J and Marcé R
Title: Limnologia de l'embassament de Foix. I Trobada d'Estudiosos del Foix
Journal: Monografies. Servei de Parcs Naturals, Diputació de Barcelona
Volume: 40 **Number:** --- **Pages, Initial:** 19 **final:** 23 **Year:** 2005
Key: A **Most outstanding aspects:** High quality local publication

Authors (signature): Armengol J, Rodríguez JJ, García JC, Ordoñez J, Marcé R
Title: La gestión de los embalses en relación a la calidad del agua en condiciones de sequía extrema
Journal: Tecnología del Agua
Volume: 16 **Number:** --- **Pages, Initial:** 287 **final:** 294 **Year:** 2009
Key: A **Most outstanding aspects:** High quality publication targeted to practical applications

Authors (signature): Marcé R and Armengol J
Title: Water Quality in Reservoirs under a Changing Climate.
Book: Water Scarcity in the Mediterranean: Perspectives under Global Change
Year: 2010 **Place of publication:** Berlin (GERMANY) **ISBN:**
Key: CB

Authors (signature): Marcé R, Moreno-Ostos E, Ordóñez J, and Armengol J
Title: The importance of the river inputs for the nutrient pool in the hypolimnion of Sau Reservoir.
Book: Reservoirs - establishing the balance between human use and biotic integrity.
Year: 2006 **Place of publication:** Brno (CZECH REPUBLIC) **ISBN:** 80-86188-23-X
Key: CB

Authors (signature): Marcé R, Feijóo C, Navarro E, Ordóñez J, and Armengol J
Title: Vertical structure of algal populations with contrasting buoyancy: physical vs. biological drivers in a canyon-shaped reservoir.
Book: Physical Processes in Natural Waters
Year: 2006 **Place of publication:** Granada (SPAIN) **ISBN:** 84-611-4209-8
Key: CB

Authors (signature): Marcé R, Armengol J, and Dolz J
Title: Els efectes als embassaments i la seva rellevància en la quantitat i la qualitat de l'aigua per a la garantia del recurs
Book: Aigua i canvi climàtic. Diagnosi dels impactes previstos a Catalunya
Year: 2009 **Place of publication:** Barcelona (SPAIN) **ISBN:** B-37612-2009
Key: CB

Authors (signature): Prats J, Armengol J, Marcé R, Sánchez-Juny M, and Dolz J
Title: Dams and Reservoirs in the Lower Ebro River and Its Effects on the River Thermal Cycle
Book: The Ebro River Basin
Year: 2010 **Place of publication:** Berlin (GERMANY) **ISBN:**
Key: CB

Authors (signature): Marcé R, Honey-Roses J, Manzano A, Moragas L, Catllar B, and Sabater S
Title: The Llobregat River Basin: A Paradigm of Impaired Rivers Under Climate Change Threats.
Book: The Llobregat: The Story of a Polluted Mediterranean River
Year: 2012 **Place of publication:** Berlin (GERMANY) **ISBN:** DOI 10.1007/698_2012_152
Key: CB

Authors (signature): Aguilera R, Sabater S, and Marcé R.
Title: In-stream nutrient flux and retention in relation to land use in the Llobregat River Basin
Book: The Llobregat: The Story of a Polluted Mediterranean River
Year: 2012 **Place of publication:** Berlin (GERMANY) **ISBN:** DOI 10.1007/698_2012_152
Key: CB

PARTICIPATION IN CONTRACTS OF SPECIAL INTEREST WITH PRIVATE COMPANIES AND/OR PUBLIC SERVICES

Title of the project / contract: Estudi limnològic de l'embassament de SAU.
Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat
Duration, since: 1998 **Until:** 1999
Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudi limnològic de l'embassament de Sau: composició química aigua, variacions en la càrrega de nutrients i canvis en el seu estat tròfic
Financing Firm/administration: Fundació Bosch i Gimpera de la Universitat de Barcelona
Duration, since: 1999 **Until:** 2000
Main researcher: Juan Armengol Bachero

Title of the project / contract: Ecologia aquàtica de l'embassament de Foix: cicle anual i de seguiment de l'evolució del seu estat tròfic
Financing Firm/administration: Diputació de Barcelona
Duration, since: 1999 **Until:** 2000
Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudi limnològic de l'embassament de Sau: Composició química de l'aigua, variacions en la càrrega de nutrients i canvis en el seu estat tròfic
Financing Firm/administration: Fundació Bosch i Gimpera de la Universitat de Barcelona
Duration, since: 2000 **Until:** 2001
Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudi limnològic de l'embassament de Sau: Composició química de l'aigua, variacions en la càrrega de nutrients i canvis en el seu estat tròfic
Financing Firm/administration: Fundació Bosch i Gimpera de la Universitat de Barcelona
Duration, since: 2001 **Until:** 2002
Main researcher: Juan Armengol Bachero

Title of the project / contract: Diagnóstico, seguimiento y medidas paliativas de los procesos eutróficos en el embalse de El Atazar
Financing Firm/administration: Canal de Isabel II
Duration, since: 2001 **Until:** 2003
Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudio limnológico del embalse de SAU.
Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat
Duration, since: 2002 **Until:** 2003
Main researcher: Juan Armengol Bachero

Title of the project / contract: Provide historical datasets describing environmental characteristics of Sau Reservoir and other selected reservoirs in Spain.
Financing Firm/administration: Fundació Bosch i Gimpera de la Universitat de Barcelona
Duration, since: 2002 **Until:** 2003
Main researcher: Juan Armengol Bachero

Title of the project / contract: Caracterización, regionalización y elaboración de herramientas para el establecimiento del potencial ecológico de los embalses catalanes según la DMA.
Financing Firm/administration: Agencia Catalana de l'Aigua
Duration, since: 2002 **Until:** 2003
Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudio de la termoclina del embalse del Gergal.

Financing Firm/administration: : IHIA- Instituto de Hidrodinámica Aplicada

Duration, since: 2002 **Until:** 2003

Main researcher: Juan Armengol Bachero

Title of the project / contract: Caracterización ecológica de Mequinenza, Ribaroja y Flix para establecer las condiciones de desarrollo de Dreissena polymorpha

Financing Firm/administration: : Consorcio para la Protección Integral del Delta del Ebro

Duration, since: 2003 **Until:** 2003

Main researcher: Juan Armengol Bachero

Title of the project / contract: Diagnóstico, seguimiento y medidas paliativas de los procesos eutróficos en el embalse de El Atazar

Financing Firm/administration: Canal de Isabel II

Duration, since: 2003 **Until:** 2004

Main researcher: Juan Armengol Bachero

Title of the project / contract: Seguimiento de la calidad del agua de sau y Susqueda y asesoramiento en su gestión y control.

Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat

Duration, since: 2003 **Until:** 2004

Main researcher: Juan Armengol Bachero

Title of the project / contract: Seguimiento de la calidad del agua de Sau y Susqueda y asesoramiento en su gestión y control.

Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat

Duration, since: 2004 **Until:** 2005

Main researcher: Juan Armengol Bachero

Title of the project / contract: Diagnóstico, seguimiento y medidas paliativas de los procesos eutróficos en el embalse de El Atazar

Financing Firm/administration: Canal de Isabel II

Duration, since: 2004 **Until:** 2005

Main researcher: Juan Armengol Bachero

Title of the project / contract: Seguimiento de la calidad del agua de Sau y Susqueda y asesoramiento en su gestión y control

Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat

Duration, since: 2005 **Until:** 2006

Main researcher: Juan Armengol Bachero

Title of the project / contract: Diagnóstico, seguimiento y medidas paliativas de los procesos eutróficos en el embalse de El Atazar

Financing Firm/administration: Canal de Isabel II

Duration, since: 2005 **Until:** 2006

Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudio de los sedimentos de los embalses del sistema Lozoya (Madrid)

Financing Firm/administration: Canal de Isabel II

Duration, since: 2005 **Until:** 2006

Main researcher: Juan Armengol Bachero

Title of the project / contract: Asistencia técnica para el análisis de la calidad del agua de los embalses de la cuenca del Llobregat

Financing Firm/administration: Agencia Catalana de l'Aigua

Duration, since: 2005 **Until:** 2006

Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudio de la evolución de los embalses del Ter durante las maniobras de trasvase de agua de Sau a Susqueda

Financing Firm/administration: Agencia Catalana de l'Aigua

Duration, since: 2005 **Until:** 2005

Main researcher: Juan Armengol Bachero

Title of the project / contract: Diagnóstico, seguimiento y medidas paliativas de los procesos eutróficos en el embalse de El Atazar

Financing Firm/administration: Canal de Isabel II

Duration, since: 2006 **Until:** 2007

Main researcher: Juan Armengol Bachero

Title of the project / contract: Seguimiento de la calidad del agua de Sau y Susqueda y asesoramiento en su gestión y control

Financing Firm/administration: Ens d'Abastament d'Aigua-Aigües Ter Llobregat

Duration, since: 2006 **Until:** 2007

Main researcher: Juan Armengol Bachero

Title of the project / contract: Estudio de la estratificación y eutrofización potencial del embalse de Lekubaso

Financing Firm/administration: Consorcio de Aguas Bilbao-Bizkaia

Duration, since: 2007 **Until:** 2008

Main researcher: Juan Armengol Bachero

Title of the project / contract: Anàlisi del impacte de l'arribada d'aigua potable des del sistema cat a l'embassament de Gaià

Financing Firm/administration: Consorci d'Aigües de Tarragona

Duration, since: 2008 **Until:** 2008

Main researcher: Sergi Sabater

Title of the project / contract: Anàlisi del impacte de l'arribada d'aigua potable des del sistema cat a l'embassament de Riudecanyes

Financing Firm/administration: Consorci d'Aigües de Tarragona

Duration, since: 2008 **Until:** 2008

Main researcher: Sergi Sabater

Title of the project / contract: Assessorament científic sobre l'impacte humà a la qualitat de l'aigua en embassaments espanyols

Financing Firm/administration: Fundació Bosch I Gimpera

Duration, since: 2010 **Until:** 2011

Main researcher: Rafael Marcé

Title of the project / contract: Sustainability of water resources under global change (HIDSOS)

Financing Firm/administration: ENDESA

Duration, since: 2013 **Until:** 2014

Main researcher: Sergi Sabater

RESEARCH STAYS ABROAD

KEY: Doctorate, Postdoctoral, Invited, hired, Other (specify)

Center: Centre of Environmental Biology, Department of Animal Biology, University of Lisbon

Place: Lisboa **Country:** PORTUGAL **Year:** 2001 **Duration:** 03M

Issue: Biogeochemical mass balances in reservoirs

Key: D

Center: US Army Corps of Engineers-Waterways Experiment Station.

Place: Vicksburg **Country:** UNITED STATES **Year:** 2002 **Duration:** 42D

Issue: Biogeochemical models at the watershed scale

Key: D

Center: US Army Corps of Engineers-Waterways Experiment Station.

Place: Vicksburg **Country:** UNITED STATES **Year:** 2003 **Duration:** 56D

Issue: Biogeochemical models at the watershed scale

Key: D

Center: Centre de Recherche en Géochimie et en Géodynamique. Université de Québec a Montréal.

Place: Montréal **Country:** CANADA **Year:** 2003 **Duration:** 06M

Issue: Metabolic balances in reservoirs

Key: D

Center: Instituto del Agua, Universidad de Granada.

Place: Granada **Country:** SPAIN **Year:** 2008 **Duration:** 03M

Issue: Reservoir biogeochemical models

Key: P

Center: University of Aarhus, Department of Bioscience - Marine Ecology.

Place: Roskilde **Country:** DENMARK **Year:** 2012 **Duration:** 10D

Issue: High frequency monitoring - metabolism

Key: P

Center: Helmholtz Center for Environmental Research- UFZ

Place: Magdeburg **Country:** GERMANY **Year:** 2012 **Duration:** 4D

Issue: Carbon cycle in freshwaters

Key: P

PRESENTATIONS IN CONGRESSES

Authors: Marcé, R.; Comerma, M.; García, J.C.; Armengol, J.

Title: Composición química del agua en el embalse de Foix (Barcelona): Caracterización del ciclo anual.

Kind of participation: Poster

Conference: X Congreso de la Asociación Española de Limnología y II Congreso Ibérico de Limnología.

Place of celebration: Valencia (SPAIN) **Year:** 2000

Authors: Marcé, R.; Armengol, J.

Title: Carga de nutrientes en un embalse mediterráneo bajo fuerte influencia humana

Kind of participation: Poster

Conference: XI Congreso de la Asociación Española de Limnología y III Congreso Ibérico de Limnología

Place of celebration: Madrid (SPAIN) **Year:** 2002

Authors: Marcé, R.; Gallegos, M.A.; Armengol, J.

Title: Nutrient Loads in a Mediterranean Reservoir under Strong Human Impact (Sau Reservoir, Spain)

Kind of participation: Poster

Conference: 4th International Conference on Reservoir Limnology and Water Quality.

Place of celebration: Ceske Budejovice (CZECH REPUBLIC) **Year:** 2002

Authors: Marcé R. and Armengol J.

Title: An Adaptive Neuro-Fuzzy Inference System (ANFIS) applied to nutrient load calculations in watersheds under strong human impact.

Kind of participation: Poster

Conference: Ecological Informatics Applications in Water Management Conference.

Place of celebration: Ghent (BELGIUM) **Year:** 2002

Authors: Marcé, R.; García, J.C.; Armengol, J.

Title: Modelización de la concentración de fósforo total en el río Ter: Aplicación del modelo HSPF en sistemas mediterráneos

Kind of participation: Speech

Conference: XII Congreso de la Asociación Española de Limnología y IV Congreso Ibérico de Limnología

Place of celebration: Porto (PORTUGAL) **Year:** 2004

Authors: Marcé R. and Armengol J.

Title: L'embassament de Foix: una nova terra promesa per la microfanuna aquàtica?

Kind of participation: Speech

Conference: I trobada d'estudiosos del Foix.

Place of celebration: Castellet (SPAIN) **Year:** 2004

Authors: Marcé R.; Armengol, J.

Title: Bypassing nutrient in-stream processes from the reach to the watershed scale using nutrient spiralling metrics

Kind of participation: Speech

Conference: ASLO Summer Meeting.

Place of celebration: Santiago de Compostela (SPAIN) **Year:** 2005

Authors: Marcé, R., C. Feijoo, E. Navarro, J. Ordoñez & J. Armengol.

Title: Vertical structure of algal populations with contrasting buoyancy: physical vs. biological drivers in a canyon-shaped reservoir

Kind of participation: Speech

Conference: 10th European Workshop on Physical Processes in Natural Waters.

Place of celebration: Granada (SPAIN) **Year:** 2006

Authors: Marcé, R.; Moreno-Ostos, E.; Ordoñez, J.; Armengol, J.

Title: The importance of river inputs for the nutrient pool in the hypolimnion of Sau reservoir

Kind of participation: Speech

Conference: 5th International Conference on Reservoir Limnology and Water Quality

Place of celebration: Brno (Czech Republic) (CZECH REPUBLIC) **Year:** 2006

Authors: Marcé, R.; Feijoo, C.; Navarro, E.; Ordoñez, J.; Armengol, J.

Title: Estructura vertical de poblaciones de algas con diferente flotabilidad: factores físicos vs. factores biológicos en un embalse mediterráneo

Kind of participation: Speech

Conference: XIII Congreso de la Asociación Española de Limnología y V Congreso Ibérico de Limnología

Place of celebration: Barcelona (SPAIN) **Year:** 2006

Authors: Marcé, R
Title: Embalses y cambio climático: hay caso
Kind of participation: Invited speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: R. Marcé, E. Moreno-Ostos, P. Lopez y J. Armengol.
Title: El papel de la materia organica aloctona en el contenido de oxígeno en embalses: hacia un nuevo paradigma en la gestion de la anoxia
Kind of participation: Speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: R. Marcé, and J. Armengol.
Title: The extent of anoxia in reservoirs and its connections with global climate
Kind of participation: Panel
Conference: ASLO
Place of celebration: Nice (FRANCE) **Year:** 2009

Authors: N. Leung, R. Marcé, and J. Armengol.
Title: Organic matter processing in a reservoir inflow: The role of wastewater effluents elucidated by DOM Spectroscopy
Kind of participation: Panel
Conference: International Training Workshop on Organic Matter Characterization Using Spectroscopic Techniques
Place of celebration: Granada (SPAIN) **Year:** 2010

Authors: A. Rigosi, R. Marcé, C. Escot, F. Rueda
Title: Calibration strategy for dynamic succession models including several phytoplankton groups
Kind of participation: Panel
Conference: 53rd Annual Conference on Great Lakes Research
Place of celebration: Toronto (CANADA) **Year:** 2010

Authors: F. Gallart, P. Llorens, R. Marcé, J. Delgado, S.J.V. Beatson & H. Posner
Title: Analysing the historical trends of water resources and land cover in the headwaters of the Llobregat and Ter river basins (Catalonia, Spain)
Kind of participation: Speech
Conference: European Geophysical Union General Assembly 2010
Place of celebration: Viena (AUSTRIA) **Year:** 2010

Authors: Armengol, J., M.; Comerma, R.; Marcé, C.; Feijoo, J.; Rodríguez, J.; García, J.C.; Dolz, J.
Title: Ondas internas y cambios diarios en la biomasa del fitoplánton del embalse de Sau
Kind of participation: Speech
Conference: XI Congreso de la Asociación Española de Limnología y III Congreso Ibérico de Limnología
Place of celebration: Madrid (SPAIN) **Year:** 2002

Authors: Feijoo, C.; Comerma, M.; García, J.C.; Marcé, R.; Balayla, D.; Armengol, J.
Title: Biomasa y estructura del fitoplánton en el embalse de Sau: ciclo diario y relaciones con el fósforo
Kind of participation: Poster
Conference: XI Congreso de la Asociación Española de Limnología y III Congreso Ibérico de Limnología
Place of celebration: Madrid (SPAIN) **Year:** 2002

Authors: García, J. C.; Rodríguez, J.J.; Comerma, M.; Marcé, R.; Armengol, J.
Title: Estudio comparativo entre dos embalses en serie del río Ter. El sistema Sau-Susqueda
Kind of participation: Poster
Conference: XI Congreso de la Asociación Española de Limnología y III Congreso Ibérico de Limnología
Place of celebration: Madrid (SPAIN) **Year:** 2002

Authors: García, J. C.; Rodríguez, J.J.; Comerma, M.; Marcé, R.; Armengol, J.
Title: Comparative study between two mediterranean reservoirs in a cascade system
Kind of participation: Poster
Conference: 4th International Conference on Reservoir Limnology and Water Quality
Place of celebration: Ceske Budejovice (CZECH REPUBLIC) **Year:** 2002

Authors: Armengol, J.; Comerma, M.; Marcé, R.; Feijoo, C.; Rodríguez, J.J.; García, J.C.; Dolz, J.
Title: Wind-induced Internal Waves and Daily Changes in Phytoplankton Biomass
Kind of participation: Speech
Conference: 4th International Conference on Reservoir Limnology and Water Quality
Place of celebration: Ceské Budejovice (CZECH REPUBLIC) **Year:** 2002

Authors: Armengol J. i Marcé R.
Title: Limnologia de l'embassament del Foix.
Kind of participation: Speech
Conference: I trobada d'estudiosos del Foix.
Place of celebration: Castellet (SPAIN) **Year:** 2004

Authors: Armengol, J.; Caputo, L.; Ordoñez, J.; García, J.C.; Valero, F.; Marcé, R.
Title: Causes and consequences of the changes in the trophic status of the Sau reservoir during the 1964-2004 period
Kind of participation: Speech
Conference: ASLO Summer Meeting
Place of celebration: Santiago de Compostela (SPAIN) **Year:** 2005

Authors: Feijoo, C.; Marcé, R.; Navarro, E.; Ordoñez, J.; Armengol, J.
Title: Diel variation of chlorophyll-a profiles along the main axis of a canyon-type reservoir (Sau reservoir, NE Spain).
Kind of participation: Poster
Conference: IV Symposium for European Freshwater Sciences.
Place of celebration: Krakow (POLAND) **Year:** 2005

Authors: Ordoñez, J.; Armengol, J.; Caputo, L.; Marcé, R.; Moreno, E.
Title: Composition and size of zooplankton along trophic gradients in Mediterranean reservoirs. Bottom-up vs. Top-down controls
Kind of participation: Speech
Conference: 5th international conference on reservoir limnology and water quality
Place of celebration: Brno (CZECH REPUBLIC) **Year:** 2006

Authors: López, P.; Marcé, R.; Ordoñez, J.; Urrutia, I.; Armengol, J.
Title: Phosphorus accumulation in sediments in five enchainned reservoirs (Lozoya River, Central Spain).
Kind of participation: Presentation of comunicacion
Conference: 5th International Conference On Reservoir Limnology And Water Quality
Place of celebration: Brno (CZECHOSLOVAKIA) **Year:** 2006

Authors: Moreno-Ostos; Marcé, E.R.; Ordoñez, J.; Garcia, J.C.; Dolz, J.; Armengol, J.
Title: Variabilidad interanual del balance de calor y de la temperatura media del agua en un embalse mediterráneo
Kind of participation: Speech
Conference: XIII Congreso de la Asociación Española de Limnología y V Congreso Ibérico de Limnología
Place of celebration: Barcelona (SPAIN) **Year:** 2006

Authors: Ordoñez, J.; Armengol, J.; Caputo, L.; Marcé, R.; Garcia, J.C.
Title: Composición y tamaños del zooplancton, a lo largo de gradientes tróficos en embalses mediterráneos: mecanismos bottom-up vs top-down
Kind of participation: Speech
Conference: XIII Congreso de la Asociación Española de Limnología y V Congreso Ibérico de Limnología.
Place of celebration: Barcelona (SPAIN) **Year:** 2006

Authors: López, P., Marcé, R., Ordoñez, J., Urrutia, I.; Armengol, J.
Title: Características del sedimento de los embalses del sistema Lozoya
Kind of participation: Presentation of comunicacion
Conference: XIII Congreso de la Asociación Española de Limnología y V Congreso Ibérico de Limnología
Place of celebration: Barcelona (SPAIN) **Year:** 2006

Authors: Feijóo C.et al.
Title: Variaciones diarias de la biomasa del fitopláncton a lo largo de un embalse mediterráneo (embalse de Sau, España).
Kind of participation: Poster
Conference: III Congreso Argentino de Limnología
Place of celebration: Chascomús (ARGENTINA) **Year:** 2005

Authors: Vidal-Hurtado J. et al.
Title: The phytoplankton bloom response to a fluctuating river inflow.
Kind of participation: Presentation of comunicacion
Conference: SIL
Place of celebration: Montreal (CANADA) **Year:** 2007

Authors: P. López, R. Marcé, E. Moreno-Ostos y J. Armengol..
Title: Dinámica del CO2 en un embalse mediterráneo eutrófico.
Kind of participation: Speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: J. Ordoñez, G González, R. Marcé, P. López y J. Armengol
Title: El ciclo del oxígeno en el embalse de Sau: patrones de variación estacional y su modelizado mediante DYRESM-CAEDYM.
Kind of participation: Speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: A. Rigosi, C. Escot, A. Basanta, R. Marcé y F. J. Rueda
Title: Simulating the phytoplankton dynamics in a mesotrophic reservoir.
Kind of participation: Speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: U. Bernales, P. López, R. Marcé, J. Ordoñez, G. González y J. Armengol
Title: Estructura física del sedimento de Ribaraja: resultados preliminares.
Kind of participation: Speech
Conference: XIV Congreso de la Asociación Ibérica de Limnología
Place of celebration: Huelva (SPAIN) **Year:** 2008

Authors: R. Marcé and J. Armengol
Title: El Niño Southern Oscillation and climate trends impact reservoir water quality: evidences from a 44 years long-term research
Kind of participation: Speech
Conference: Symposium for European Freshwater Sciences SEFS-7
Place of celebration: Girona (SPAIN) **Year:** 2011

Authors: R. Aguilera and R. Marcé
Title: Modeling Instream Nutrient Processes at the Catchment Scale: Testing the Efficiency Loss Hypothesis
Kind of participation: Speech
Conference: Symposium for European Freshwater Sciences SEFS-7
Place of celebration: Girona (SPAIN) **Year:** 2011

Authors: Obrador B; Marcé R, Riera JL, Morguá JA, López P, and Armengol J
Title: Alkalinity and the inorganic carbon equilibrium shape the metabolism-CO₂ saturation relationship in lentic freshwaters
Kind of participation: Speech
Conference: Symposium for European Freshwater Sciences SEFS-7
Place of celebration: Girona (SPAIN) **Year:** 2011

Authors: López P, Marcé R, and Armengol J
Title: Net heterotrophy and CO₂ evasion from a productive calcareous reservoir
Kind of participation: Speech
Conference: Symposium for European Freshwater Sciences SEFS-7
Place of celebration: Girona (SPAIN) **Year:** 2011

Authors: Ordóñez J, Rodríguez JJ, García JC, Marcé R, and Armengol J
Title: Importance of reservoir management to improve the water quality they supply: example of some Catalan reservoirs
Kind of participation: Speech
Conference: Symposium for European Freshwater Sciences SEFS-7
Place of celebration: Girona (SPAIN) **Year:** 2011

Authors: Marcé R and Armengol J
Title: Water quality in reservoirs under a changing climate: potential risks and management opportunities
Kind of participation: Speech
Conference: Second IWA symposium on Lake & Reservoir Management
Place of celebration: Granada (SPAIN) **Year:** 2011

Authors: Andradóttir HO, Rueda FJ, and Marcé R
Title: Impact of water management on reservoir residence time
Kind of participation: Speech
Conference: Second IWA symposium on Lake & Reservoir Management
Place of celebration: Granada (SPAIN) **Year:** 2011

Authors: López P, Marcé R, Urrutia I, Gordo MC, and Armengol J
Title: Sedimentary phosphorus in a cascade of 5 reservoirs (Lozoya River, Central Spain)
Kind of participation: Speech
Conference: Second IWA symposium on Lake & Reservoir Management
Place of celebration: Granada (SPAIN) **Year:** 2011

Authors: Aguilera R, Marcé R, and Sabater S
Title: Modelling nutrient loads and in-stream retention in basins under chronic human impact
Kind of participation: Speech
Conference: 3rd SCARCE International Conference
Place of celebration: Madrid (SPAIN) **Year:** 2011

Authors: Huerta B, Marti E, Gros M, Rodriguez-Mozaz S, Balcázar JL, Barceló D, and Marcé R
Title: Antibiotic contamination and promotion of antibiotic resistance in aquatic microorganisms and fish in two Catalan reservoirs
Kind of participation: Panel
Conference: 3rd SCARCE International Conference
Place of celebration: Madrid (SPAIN) **Year:** 2011

Authors: Marcé R, Navarro-Ortega A, and Barceló D
Title: SCARCE Consolider : Assessing and predicting effects of global change on water quantity and quality in Iberian rivers (2009-2014)
Kind of participation: Speech
Conference: WATERCHANGE final meeting
Place of celebration: Barcelona (SPAIN) **Year:** 2012

Authors: D. Barcelo, B. Huerta, E. Marti, M. Gros, S. Rodriguez-Mozaz, J. Balcazar, and R. Marce
Title: Antibiotic occurrence and antibiotic resistance in microbial communities of three water supply reservoirs
Kind of participation: Speech
Conference: SETAC North America. 33rd Annual meeting
Place of celebration: Long Beach, California. **Year:** 11-15 November 2012

Authors: R. Marcé, B. Obrador, J.L. Riera, P. López, and J. Armengol
Title: The role of alkalinity on the relationship between lake metabolism and CO₂ saturation and its global relevance.
Kind of participation: Speech
Conference: XVI Congress of the Iberian Association of Limnology
Place of celebration: Guimaraes, Portugal. **Year:** 2-6 July 2012

Authors: R. Aguilera, R. Marcé, and S. Sabater
Title: Linking in-stream nutrient flux and removal to land use and climate variability in an impaired basin.
Kind of participation: Speech
Conference: XVI Congress of the Iberian Association of Limnology
Place of celebration: Guimaraes, Portugal. **Year:** 2-6 July 2012

Authors: B. Obrador, S. Sabater, I. Muñoz, V. Acuña, P. López, R. Marcé, M. Menéndez, and D. von Schiller
Title: Carbon transport and use through Mediterranean river networks: the project CARBONET
Kind of participation: Panel
Conference: XVI Congress of the Iberian Association of Limnology
Place of celebration: Guimaraes, Portugal. **Year:** 2-6 July 2012

Authors: R. Marcé, I. Urrutia, and J. Armengol
Title: Nutrients and organic matter load to Pinilla Reservoir (Madrid): water quality, and management implications
Kind of participation: Panel
Conference: XVI Congress of the Iberian Association of Limnology
Place of celebration: Guimaraes, Portugal. **Year:** 2-6 July 2012

Authors: B. Huerta, E. Marti, M. Gros, S. Rodriguez-Mozaz, J. Balcazar, D. Barcelo, and R. Marce
Title: Antibiotic contamination and promotion of antibiotic resistance in microbial communities of three reservoirs
Kind of participation: Panel
Conference: SETAC North America. 33rd Annual meeting
Place of celebration: Long Beach, California. **Year:** 11-15 November 2012

Authors: X. Zhang, R. Marcé, J. Armengol, R. Tauler
Title: Application of multivariate resolution to organic matter pattern distribution in river-reservoir systems using excitation and emission matrix fluorescence data
Kind of participation: Panel
Conference: XIII Chemometrics in Analytical Chemistry
Place of celebration: Budapest, Hungary. **Year:** 25-29 June 2012

Authors: L. Boithias, V. Acuña, L. Vergoñós, R. Marcé, and S. Sabater
Title: Is water scarcity scale-dependent: analysis of spatial dependencies of the demand to supply ratio of water provisioning in a Mediterranean river basin
Kind of participation: Speech
Conference: 3rd SCARCE International Conference
Place of celebration: Valencia, Spain. **Year:** 26-27 November 2012

Authors: R. Rodríguez, M. Sánchez-Canales, A. López, R.F. Bangash, V. Kumar, R. Marcé, M. Schuhmacher, and F.J. Elorza
Title: Multi objective calibration methodology and its application to a water provisioning model of a Mediterranean watershed
Kind of participation: Speech
Conference: 3rd SCARCE International Conference
Place of celebration: Valencia, Spain. **Year:** 26-27 November 2012

Authors: J. Aldekoa, C. Medici, R. Marcé, and F. Francés.
Title: Modeling the emerging pollutant diclofenac with the GREAT-ER model: Application to the Llobregat river basin
Kind of participation: Panel
Conference: 3rd SCARCE International Conference
Place of celebration: Valencia, Spain. **Year:** 26-27 November 2012

Authors: Osorio V, Proia L, Marcé R, Pérez S, Ginebreda A, and Barceló D
Title: Study of the presence, fate and distribution of pharmaceuticals on Iberian river basins under the SCARCE Consolider project.
Kind of participation: Speech
Conference: Aquaconsoil
Place of celebration: Barcelona, Spain. **Year:** 2013

Authors: Marcé, R.
Title: State of the art in automatic monitoring: Research and Applications
Kind of participation: Oral
Conference: Linking lake observatories to management and policy
Place of celebration: Amersfoort, Netherlands **Year:** 2013

Authors: Marcé R. , Enrique Moreno-Ostos, José María Blanco, R.L. Palomino-Torres, M.E. Palma, and Carmelo Escot
Title: Automatic high-resolution monitoring reveals intermittent coupling between short-term atmospheric events and algal biomass driven by the presence of buoyant/swimming species
Kind of participation: Oral
Conference: SIL
Place of celebration: Budapest, Hungary **Year:** 2013

Authors: Laurie Boithias, Rafael Marcé, Vicenç Acuña, Joana Aldekoa, Victoria Osorio, Mira Petrovic, Antoni Ginebreda, Felix Francés, Sandra Pérez, Sergi Sabater
Title: Assessment of the water purification ecosystem service regarding instream pharmaceutical residues: exploring the GREAT-ER model parameters based on data uncertainty
Kind of participation: Oral
Conference: 4th SCARCE International Conference
Place of celebration: Cadiz, Spain **Year:** 2013

Authors: Aguilera, R. Marcé, R., Sabater, S., Livingstone, D., and Adrian, R.
Title: Freshwater quality time-series decomposition and the effects of sampling data resolution
Kind of participation: Panel
Conference: SIL
Place of celebration: Budapest, Hungary **Year:** 2013

Authors: Zoran Banjac, Laurie Boithias, Antoni Ginebreda, Rafael Marcé, Victoria Osorio, Sandra Pérez, Damià Barceló, Sergi Sabater, Vicenç Acuña
Title: Assessment of pharmaceutical Diclofenac occurrence in the Llobregat river via Monte Carlo sensitivity analysis of several parameters using GREAT-ER model
Kind of participation: Panel
Conference: 4th SCARCE International Conference
Place of celebration: Cadiz, Spain **Year:** 2013

PhD supervisions

Título: Limnología del embalse de Sau. Relaciones del zooplancton, la clorofila y los sólidos en suspensión con el clima lumínico del agua

Doctorando: Jaime Ordóñez Salinas

Universidad: Universidad de Barcelona

Facultad / Escuela: Facultad de Biología

Fecha: 21/09/2010

Título: Physical and Ecological processes in El Gergal Reservoir (Seville): effects on water quality

Doctorando: Anna Rigosi

Universidad: Universidad de Granada

Facultad / Escuela: Instituto del Agua

Fecha: 14/01/2011

Organization of RDI activities

Título: Second IWA symposium on Lake & Reservoir Management
Tipo de actividad: International congress, Local organizer Ambito: Water Resources

Fecha: June 2011

Título: Symposium for European Freshwater Sciences SEFS-7
Tipo de actividad: : International congress, Local organizer Ambito: Freshwater Sciences

Fecha: June 2011

Título: Freshwater ecosystems as fundamental components in regional carbon budgets: a cross-system perspective in SEFS-7
Tipo de actividad: : Special Session in International Congress Ambito: Freshwater Sciences

Fecha: 2011

Título: NETworking LAKe observatories in Europe (NETLAKE)
Tipo de actividad: : COST action, Managing Committee Ambito: Freshwater Sciences

Fecha: 2012-2016

Título: Carbon processing in freshwaters: approaches and perspectives in the XVI Congress of the Iberian Association of Limnology, Portugal
Tipo de actividad: : Special Session in International Congress Ambito: Freshwater Sciences

Fecha: 2012

Título: Linking lake observatories to management and policy
Tipo de actividad: : Workshop Ambito: Freshwater Sciences

Fecha: November 2013

Título: XVII Congress of the Iberian Association of Limnology
Tipo de actividad: : International congress Ambito: Freshwater Sciences

Fecha: June 2014

Título: Girona NETLAKE meeting
Tipo de actividad: : COST action meeting Ambito: Freshwater Sciences

Fecha: January 2014

OTHER ACHIEVEMENTS (in one DIN A4 page only)

- 1200 hours of teaching at bachelor level, Department of Ecology, University of Barcelona.
- AQU Certificate for “Professor Associat” and “Lector”, and ANECA Certificate for “ Profesor Ayudante Doctor”.
- Currently co-directing three PhD projects: Rosana Aguilera and Joan Pere Casas at ICRA, and Cecilia Hergoburu at Luján (Argentina).

- Several invited conferences in the Departament d'Ecologia de la UB, Parque Científico de Barcelona, Institut d'Estudis Catalans, Universitat Politècnica de Catalunya, Centre d'Estudis Avançats de Blanes (CSIC), Universidad de Granada, Departement des Sciences Biologiques (Université de Quebec a Montréal), and UFZ (Magdeburg, Germany)

- PhD dissertation awarded twice:
 1. Best thesis in the area of Ecology, University of Barcelona, 2008 (national)
 2. Best thesis during years 2006-2007, Asociación Ibérica de Limnología, 2008 (international)

- Grantee of several programs:
 - Grantee of the program “Formación de profesorado universitario” (FPU), Ministerio de Educación, Cultura y Deporte, 2001-2005
 - Grantee of the program “Proyectos de investigación”, Universitat de Barcelona, 2000-2001
 - Grantee of the US Army Corps of Engineers-Waterways Experiment Station, US Army Research and Development Center-European Office, 2 months (2002)
 - Grantee of an extraordinary grant of the program “Formación de profesorado universitario” (FPU), Ministerio de Educación, Cultura y Deporte, 2001
 - Grantee for a research stay in US Army Corps of Engineers-Waterways Experiment Station, Ministerio de Educación, Cultura y Deporte, 4 months (years 2002 and 2003)
 - Grantee for a research stay in the Centre de Recherche en Géochimie et en Géodynamique. Université de Quebec a Montreal, Ministerio de Educación, Cultura y Deporte, 6 months (2003)
 - Grantee for the assistance to summer courses in the Universitat Internacional de Menoría, Universitat de Barcelona, 15 days (1998)
 - Grantee to assist to the ASLO 2007 in Santiago de Compostela, Universitat de Barcelona, 4 days (2007)
 - Grantee of a program to assist in the finalization of PhD, Universitat de Barcelona, 2005
 - Grantee to assist to the AIL Congress 2008 in Huelva (Spain), 5 days (2008)