



## Part A. PERSONAL INFORMATION

CV date 22/06/2021

First and Family name	Ignacio Morell Evangelista		
	Age	68	
Researcher numbers	Researcher ID Orcid code		

### A.1. Current position

Name of University	Universitat Jaume I		
Department	Instituto Universitario de Plaguicidas y Aguas		
Address and Country	Avda. Vicent Sos Baynat s/n, Castelló 12071, Spain		
Phone number	964387380	E-mail	<a href="mailto:morell@camn.uji.es">morell@camn.uji.es</a>
Current position	Full Professor		Fecha inicio 2003
Espec. cód. UNESCO			
Key words			

### A.2. Education

PhD	University	Año
Geology	Universidad de Granada	1986

### A.3. JCR articles, h Index, thesis supervised...

**Sexenios: 4**

**Fecha del último concedido: 2020**

**Thesis supervised (last 10 years): 6**

## Parte B. CV SUMMARY (mAX. 3500 characters, including spaces))

Professor of External Geodynamics at the Jaume I University of Castellón since 2003, he is responsible of Hydric Resources Group, of the University Institute of Pesticides and Water (IUPA). He is also coordinator of the Associated Unit for the investigation of coastal aquifers, constituted between the Geological and Mining Institute of Spain and the Universitat Jaume I.

Researcher responsible for numerous projects and research contracts, mostly related to groundwater contamination and water resources management.

Currently, he is working on the characterization of the causes and processes associated with the presence of organic micropollutants (pesticide residues and emerging contaminants) in the surface and underground water masses of the Valencian Community. It also works on the implementation of intelligent irrigation systems to save water in the cultivation of citrus.

## Parte C. RELEVANT MERITS

### C.1. Publications (including books)

**Morell, I.** (1992). *Manantiales de la provincia de Castellón*. Ed. Excma Diputación de Castellón. ISBN 84-86895-21-1

**Morell, I.** y Hernández, F. (2001). *El agua en Castellón. Un reto para el siglo XXI*. Ed. Universitat Jaume I. 2001. ISBN 84-8021-333-7

Cabezas, F., Cabrera, E., **Morell, I.** (2008). *El agua, una cuestión de estado. Perspectiva desde la Comunidad Valenciana*. Ed. Asociación Valenciana de Empresarios. 156 pp

Cabezas, F., Cabrera, E., **Morell, I.** (2008). *Agua y estatutos de autonomía. El caso castellano – manchego*. Ed. Asociación Valenciana de Empresarios. 43 pp

**Morell, I.**, Bandenay, L., Renau, A., Renau. A. (2010). *Recarga artificial de acuíferos con aguas residuales urbanas regeneradas*. Ed. Fundación Dávalos – Fletcher. 130 pp. ISBN 978-84-693-2077-8

Cabezas, F., Cabrera, E., **Morell, I** (2013). *El laberinto del agua. Reflexiones para el pacto necesario*. Ed. Asociación Valenciana de Empresarios. 86 pp

García-Menéndez, O., **Morell, I.**, Ballesteros, B., Renau-Pruñonosa, A., Renau-Llorens, A., Esteller, M.V. (2016). Spatial characterization of the seawater upconing process in a coastal Mediterranean aquifer (Plana de Castellón, Spain): evolution and controls, *Environmental Earth Sciences* DOI: 10.1007/s12665-016-5531-7

Pitarch, E., M I Cervera, Portolés, T., Ibáñez, M., Barreda, M., Renau-Pruñonosa, A., **Morell, I.**, López, F., Albarrán, F., Hernández, F. (2016).Comprehensive monitoring of organic micro-pollutants in surface and groundwater in the surrounding of a solid-waste treatment plant of Castellón, Spain. *Science of the Total Environment*, 548-549: 211-220

Ballesteros BJ, **Morell I**, García-Menéndez O, Renau-Pruñonosa A. (2016). A standardized index for assessing seawater intrusion in coastal aquifers: The SITE index. *Water Resources Management*, 30(13): 4513-4527. DOI: 10.1007/s11269-016-1433-4

Cabezas, F., Cabrera, E., **Morell, I.** (2015). The water maze of southeast Spain. Water Tensions in Europe and in the Mediterranean: water crisis by 2050?. October 2015. Paris-Marne la Vallée, France. ISBN: 979-10-93567-07-5

Renau-Pruñonosa A, **Morell I**, Pulido-Velazquez D. (2016). A methodology to analyse and assess pumping management strategies in coastal aquifers to avoid degradation due to seawater intrusion problems. *Water Resources Management*, 30(13): 4823-4837. DOI: 10.1007/s11269-016-1455-y

García-Menéndez O, Ballesteros B, Renau-Pruñonosa A, **Morell I**, Mochales T, Ibarra PI, Rubio FM (2017). Using electrical resistivity tomography to assess the effectiveness of managed aquifer recharge in salinized coastal aquifer. *Environmental Monitoring Assessment*. 190: 100. DOI: 10.1007/s10661-017-6446-9

Baena L, Pulido-Velazquez D, Collados-Lara AJ, Renau-Pruñonosa A, **Morell I.** (2018). Global assessment of seawater intrusion problems (status and vulnerability). *Water Resources Management*. <https://doi.org/10.1007/s11269-018-1952-2>

Pulido-Velazquez D, Renau-Pruñonosa A, Llopis-Albert C, **Morell I**, Collados-Lara AJ, Senent-Aparicio J Leticia Baena-Ruiz (2018). Integrated assessment of future potential global change scenarios and their hydrological impacts in coastal aquifers –a new tool to analyse management alternatives in the Plana Oropesa-Torreblanca aquifer. *Hydrology and Earth System Sciences*. <https://doi.org/10.5194/hess-22-3053-2018>

Martín M.A., Esteller, M.V., **Morell, I.**, Expósito, J.L., Bandenay, G.L., Díaz-Delgado, C. (2018). A lysimeter study under field conditions of nitrogen and phosphorus leaching in a turf grass crop amended with peat and hidrogel. *Science of The Total Environment* 648, 15: 530-541 <https://doi.org/10.1016/j.scitotenv.2018.08.152>

Fonseca E, Renau-Pruñonosa A, Ibáñez M, Gracia-Lor E, Estrela T, Jiménez S, Pérez-Martín MA, González F, Hernández F., **Morell, I** (2019). Investigation of pesticides and their transformation products in the Júcar River Hydrographical Basin (Spain) by wide-scope high-resolution mass spectrometry screening. *Environmental Research*.

<https://doi.org/10.1016/j.envres.2019.108570>

Baena, L., Pulido, D., Renau-Pruñonosa, A., Collados, A.J., **Morell, I.**, Senent, J., Llopis, C., (2020). Summarising impacts of future potential global change scenarios on seawater intrusion. *Environmental Earth Sciences*



Bandenay, G.L., Renau-Pruñonosa, A., **Morell, I.**, Esteller, M.V. (2020). Effects of different amendments (organic matter and hydrogel) on the actual evapotranspiration and crop coefficient of turf grass under field conditions. *Irrigation and drainage* 70(2): 293-305. <https://doi.org/10.1002/ird.2544>

Renau-Pruñonosa A, García-Menéndez O, Ibáñez M, Vázquez-Suñé E, Boix C, Ballesteros B.J, Hernández-García M, **Morell I**, Hernández F. (2020). Identification of Aquifer Recharge Sources as the Origin of Emerging Contaminants in Intensive Agricultural Areas. La Plana de Castellón, Spain. *Water* 12(3):731 doi:10.3390/w12030731

Martín del Campo, M.A., Esteller, M.V., Morell, I., Bandenay, G.L., Morales, E. (2021). Effect of organic matter and hydrogel application on nitrate leaching in a turfgrass crop: a simulation study using HYDRUS. *Journal of Soils and Sediments*, 21(2), 1190-1205. DOI 10.1007/s11368-020-02847-1

García-Menéndez O, Renau-Pruñonosa A, **Morell I**, Ballesteros B J, Esteller M V. (2021). Hydrogeochemical changes during managed aquifer recharge (MAR) in salinized coastal aquifer. *Applied Geochemistry*. <https://doi.org/10.1016/j.apgeochem.2020.104866>

Pulido, D., Baena, L., Fernandes, J., Arno, G., Hinsby, K., Voutchkova, D., Hansen, B., Retike, I., Bikše, J., Collados, A., Camps, V., Morell, I., Grima, J., Luque, J.A. (2021). Assessment of chloride natural background levels by applying statistical approaches. Analyses of European coastal aquifers in different environments. *Marine Pollution Bulletin (under revision)*

## C.2. Research projects and grants (last 5 years)

CGL2013-48424-C2-2-R. GESINH-IMPADAPT: Generation, simulation and integration of future hydrological scenarios within the analysis of impacts and adaptation to global change on WR systems. Entidad financiadora y convocatoria: MINECO-DG investigación. Plan Estatal de I+D+I orientada a los Retos de la Sociedad (convocatoria 2013). Investigador Principal: D. Pulido-Velázquez (IGME). Fechas: 1/1/2014 - 31/12/2016. Subvención: 84.700,00 €. Participación: Investigador

Facing the seawater intrusion recharging coastal aquifers with regenerated water (Código: 11I252.01). Entidad Financiadora: The Coca-Cola Fundation (Atlanta, USA). Entidades Participantes: Universitat Jaume I (UJI). Importe concedido, en euros: 360.000 Desde: 01/09/2011, Hasta: 30/09/2014. Responsable Principal: Ignacio Morell. Tipo de Participación: IP. Centro en el que se realiza la actividad: UJI.

Citrus farmers water savers. Entidad Financiadora: The Coca-Cola Fundation (Atlanta, USA). Entidades Participantes: Universitat Jaume I (UJI), IRTA e Inèdit Innova. Importe concedido, en euros: 494.000 Desde: 01/09/2011, Hasta: 30/09/2014. Responsable Principal: Ignacio Morell. Tipo de Participación: IP. Centro en el que se realiza la actividad: UJI.

Estudio sobre el análisis de la problemática derivada del uso de pesticidas en la Demarcación Hidrográfica del Júcar (REF: TEC0004558). Entidad Financiadora: TRAGSATEC. Entidades Participantes: Confederación Hidrográfica del Júcar (CHJ), Universitat Politècnica de València (UPV), Universitat Jaume I (UJI), Universidad de Castilla la Mancha (UCLM), TRAGSATEC y EVREN. Importe concedido, en euros: 28.000. Desde: 01/01/2017, Hasta: 31/12/2017. Responsable Principal: M. Ángel Pérez (UPV). Tipo de Participación: Investigador. Centro en el que se realiza la actividad: UJI.

Estado actual del conocimiento de la presencia de contaminantes emergentes en aguas subterráneas del área mediterránea. Entidad Financiadora: Dirección General del Agua, Conselleria de Agricultura, Medio Ambiente, Cambio Climático y Desarrollo Rural (CV). Entidades Participantes: Universitat Jaume I (UJI). Importe concedido, en euros: 40.000.



Desde: 01/01/2016, Hasta: 01/11/2016. Responsable Principal: Ignacio Morell (UJI). Tipo de Participación: IP. Centro en el que se realiza la actividad: UJI.

#### **C.4. Institutional responsibilities**

##### **C.6. Thesis supervised**

Eleven