

Producció científica derivada de les tesis defensades al programa del Doctorat en Ciència i Tecnologia Química

(Impacte índex i quartils fan referència als valors de J. Chemical Reports de l'any 2018, si no s'indica l'any entre parèntesis)

Any de defensa	Doctorand/a	Títol de la tesi
2016	Fàtima Abouhiat	<i>Automatisation des méthodes cinétiques-catalytiques par les techniques d'analyses en flux</i>

Contribucions científiques derivades:

1 Sensitive kinetic-catalytic spectrophotometric method for cobalt determination using a chip coupled to a multisyringe flow injection analysis system. F. Z. Abouhiat , C. Henríquez, F., El Yousfi, i V. Cerdà (2017). <i>Talanta</i> , 166, 405-411 DOI: 10.1016/j.talanta.2015.12.005	4.92	Q1
2 Automatic flow kinetic-catalytic methods C. Henríquez, F. Maya, P. Phansi, F. Z. Abouhiat , K. Danchana, i V. Cerdà (2016). <i>Trac-Trends in Analytical Chemistry part C</i> , 85, 33-45 DOI: 10.1016/j.trac.2016.08.009	8.42	Q1
3 A miniaturized analyzer for the catalytic determination of iodide in seawater and pharmaceutical samples F. Z. Abouhiat , C. Henríquez, B. Horstkotte, F. El Yousuf, i V. Cerdà (2013) <i>Talanta</i> , 108, 92-102 https://doi.org/10.1016/j.talanta.2013.02.072	4.91	Q1
4 Sensitive kinetic-catalytic spectrophotometric method for cobalt determination using a chip coupled to a multisyringe flow injection analysis system F. Z. Abouhiat , C. Henríquez, F. El Yousuf, i V. Cerdà (2017) <i>Talanta</i> , 166, 405-411 https://doi.org/10.1016/j.talanta.2015.12.005	4.91	Q1
5 Automatic integrated system for catalytic spectrophotometric determination of vanadium in water samples		

F. Z. Abouhiat, C. Henríquez, E. Palacios, F. El Yousuf, i V. Cerdà (2014) <i>Analytical Methods</i>, 6, 9142-9151 6 Kinetic-catalytic method for sequential determination of iron and copper using a chip coupled to a multipumping flow system F. Z. Abouhiat, C. Henríquez, F. El Yousuf, i V. Cerdà (2015) <i>Analytical Methods</i>, 7, 7858-7865	1.71	Q2
	1.71	Q2

Any de defensa	Doctorand/a	Títol de la tesi
2016	Francisco Berga Montaner	<i>Estudio de los efectos del fitato sobre la calcificación cardiovascular en pacientes con enfermedad renal crónica</i>

Contribucions científiques derivades:

1 Intake of myo-inositol hexaphosphate and urinary excretion of inositol phosphates in Wistar rats: Gavage vs. oral administration with sugar F. Grases, A. Costa Bauzá, Francisco Berga, R. M. Gomila, C. Martorell, i M. R. Martínez Cigoni (2019) <i>PloS one</i>, 14, e0223959 DOI:10.1371/journal.pone.0223959	2.78	Q2
2 2,4-Diamino-N10-methylpterioic acid (DAMPA) crystalluria in a patient with osteosarcoma treated with carboxypeptidase-G2 rescue after high-dose methotrexate-induced nephrotoxicity Francisco Berga, P. Luna, C. Martorell, J. Rey, I. Gomila, S. Giménez, A. Costa Bauzá, M. A. Elorza, I. Sánchez, i F. Grases (2018) <i>Clinica Chimica Acta</i>, 487, 1-5 DOI: 10.1016/j.cca.2018.09.006	2.73	Q2
3 Phytate decreases formation of advanced glycation end-products in patients with type II diabetes: randomized crossover trial P. Sanchís, R. Rivera, Francisco Berga, R. Fortuny, M. Adrover, A. Costa Bauzá, F. Grases, I L. Masmiquel (2018)	4.01	Q1

<i>Scientific Reports</i>, 8, 9616 DOI: 10.1038/s41598-018-27853-9		
4 A pilot randomized crossover trial assessing the safety and short-term effects of walnut consumption by patients with chronic kidney disease P. Sanchís, R. M. Molina, Francisco Berga, E. Muñoz, R. Fortuny, A. Costa Bauzá, F. Grases, i J. M. Buades (2019) <i>Nutrients</i>, 12, issue 1 DOI:10.3390/nu12010063	2.36	Qx
5 Evaluation of inositol phosphates in urine after topical administration of myo-inositol hexaphosphate to female Wistar rats F. Grases, A. Costa Bauzá, Francisco Berga, A. Rodríguez, R.M. Gomila, C. Martorell, i M. R. Martínez-Cignoni (2018) <i>Life Sciences</i>, 192, 33-37 DOI: 10.1016/j.lfs.2017.11.02	3.44	Q2
6 <u>Protective effect of myo-inositol hexaphosphate (phytate) on abdominal aortic calcification in patients with chronic kidney disease</u> P. Sanchís, M. Buades, Francisco Berga, M. M. Gelabert, M. Molina, M. V. Iñigo, S. Garcias, J. González, M. R. Barenabeu, A. Costa Bauzá, i F. Grases (2016) <i>J. Renal Nutrition</i>, 26, 226-236 DOI: 10.1053/j.jrn.2016.01.01	2.75	Q2
7 Novel colorimetric determination of phytate in urine Francisco Berga, A. Rodríguez, A. Costa Bauzá, i F. Grases (2016) <i>Analytical Letters</i>, 49, 307-318 DOI: 10.1080/00032719.2015.1060599	1.25	Q4
8 <i>Urinary phytate (myo-inositol hexaphosphate) in healthy school children and risk of nephrolithiasis</i> F. Grases, C. Sáez Torres, A. Rodríguez, A. Costa Bauzá, D. Rodrigo, G. Frontera, Francisco Berga, i S. Fackler (2014) <i>J. Renal Nutrition</i>, 24, 219-223 DOI: 10.1053/j.jrn.2014.03.004	2.75	Q2
9 A new device for simple and accurate urinary pH testing by the Stone-former patient F. Grases, A. Rodríguez, Francisco Berga, A. Costa Bauzá, R. M. Prieto, I. Burdallo, A. Carrasco, C. Jiménez Jorquera, A. Baldi, i R. Garganta (2014) <i>Springerplus</i>, 3, article number 209 DOI: 10.1186/2193-1801-3-209	1.78	

Any de defensa	Doctorand/a	Títol de la tesi
2019	Carlos Mauricio Calderilla Jaime	<i>Avances en la determinación de metales basados en la técnica de análisis en flujo multijeringa e impresión 3D</i>

Contribucions científiques derivades:

1 Direct photoimmobilization of extraction disks on «green state» 3D printed devices Carlos M. Calderilla , F. Maya, V. Cerdà, i L. O. Leal (2019) <i>Talanta</i> , 202, 67-73 DOI: 10.1016/j.talanta.2019.04.026	4.91	Q1
2 Recent advances in flow-based automated solid-phase extraction Carlos M. Calderilla , F. Maya, L. O. Leal, i V. Cerdà (2018) <i>Trac-trends in Analytical Chemistry</i> , 108, 370-380 DOI: 10.1016/j.trac.2018.09.011	8.42	Q1
3 3D printed device for the automated preconcentration and determination of chromium (VI) Carlos M. Calderilla , F. Maya, V. Cerdà, i L. O. Leal (2018) <i>Talanta</i> , 184, 15-22 DOI: 10.1016/j.talanta.2018.02.065	4.92	Q1
4 3D printed device including disk-based solid-phase extraction for the automated speciation of iron using the multisyringe flow injection analysis technique Carlos M. Calderilla , F. Maya, V. Cerdà, i L. O. Leal (2017) <i>Talanta</i> , 175, 463-469 DOI: 10.1016/j.talanta.2017.07.028	4.92	Q1
5 Multivariate optimisation of a rapid and simple automated method for bismuth determination in well water samples exploiting long path length spectrophotometry Carlos M. Calderilla , J. Avivar, L. O. Leal, i V. Cerdà (2016) <i>Int. J. Env. Anal. Chem.</i> , 96, 653-666 DOI: 10.1080/03067319.2016.1180378	1.26	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2018	Adrián Cordero García	<i>Eficiencia fotocatalítica solar del WO₃/TiO₂-A (A:N,C) en la degradación del diclofenaco en medio acuoso</i>

Contribucions científiques derivades:

1 Photocatalytic behaviour of WO ₃ /TiO ₂ -N for diclofenac degradation using simulated solar radiation as an activation source Adrián Cordero García , G. Turnes Palomino, L. Hinojosa Reyes, L. Maya Tevinno, J. L. Guzmán Mar, i A. Hernández Ramírez (2017) <i>Env. Sci. Poll. Research</i> , 24, 4631-4624 DOI: 10.1007/s11356-016-8157-0	2.91	Q2
2 Effect of carbon doping on WO ₃ /TiO ₂ coupled oxide and its photocatalytic activity on diclofenac degradation A. Cordero García , J. L. Guzmán Mar, L. Hinojosa Reyes, E. Ruiz Ruiz, i A. Hernández Ramírez (2016) <i>Ceram. Int.</i> , 42, 9796–9803.	3.45	Q1

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Any de defensa	Doctorand/a	Títol de la tesi
2016	Alba Córdoba Insensé	<i>Covalent functionalization of titanium with natural small molecules for bioactive bone implants</i>

Contribucions científiques derivades:

1 Quercitrin nanocoated implant surfaces reduce osteoclast activity in vitro and in vivo Alba Córdoba , N. Manzanaro Moreno, C. Colom, H. J. Ronold, S. P. Lingstadass, M. Monjo, i J. M. Ramis (2018) <i>Int. J. Molecular Sciences</i> , 19, article number 3319 DOI: 10.3390/ijms19113319	4.18	Q2
2 Direct covalent grafting of phytate to titanium surfaces through ti-o-p bonding shows bone stimulating surface properties and decreased bacterial adhesion Alba Córdoba , M. Hierro Oliva, M. A. Pacha Olivenza, M. C. Fernández Calderón, J. Perelló, B. Isern, M. L. González Martín, M. Monjo, i J. M. Ramis (2016) <i>ACS Applied Materials & Interfaces</i> , 8,11326-11335	8.45	Q1

DOI: 10.1021/acsami.6b02533 3. Quercitrin-nanocoated titanium surfaces favour gingival cells against oral bacteria M. Gómez Florit, M. A. Pacha Olivenza, M. A. Fernández Calderón, Alba Córdoba, M. L. González Martín, M. Monjo, i J. M. Ramis (2016) <i>Scientific Reports</i>, 6, article number: 22444 DOI: 10.1038/srep22444 4 Bioinspired quercitrin nanocoatings: a fluorescence-based method for their surface quantification, and their effect on stem cell adhesion and differentiation to the osteoblastic lineage Alba Córdoba, M. Monjo, M. Hierro Oliva, M. L. González Martín, i J. M. Ramis (2015) <i>ACS Applied Materials & Interfaces</i>, 7, 16857-16864, DOI: 10.1021/acsami.5b05044 5 Flavonoid-modified surfaces: multifunctional bioactive biomaterials with osteopromotive, anti-inflammatory, and anti-fibrotic potential Alba Córdoba, M. Satué, M. Gómez Florit, M. Hierro Oliva, C. Petzold, S. P. Lyngstadaas, M. L. González Martín, M. Monjo, i J. B. Ramis (2015) <i>Advanced Healthcare Materials</i>, 4, 540-549, DOI: 10.1002/adhm.201400587 6 UV-irradiated 7-dehydrocholesterol coating on polystyrene surfaces is converted to active vitamin D by osteoblastic MC3T3-E1 cells M. Satué, Alba Córdoba, J. M. Ramis, i M. Monjo (2013) <i>Photochemical & Photobiological Sciences</i>, 12, 1025-1035 DOI: 10.1039/c3pp50025j,	4.01 8.45 6.27 2.41	Q1 Q1 Q1 Q3
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Any de defensa	Doctorand/a	Títol de la tesi
2019	Maria Esperança Dalmau Estelrich	<i>Revalorización de subproductos vegetales. Efecto del procesado sobre la extracción, estabilidad y bioaccesibilidad de compuestos antioxidantes</i>

Contribucions científiques derivades:

1 Effects of convective drying and freeze-drying on the release of bioactive compounds from beetroot during in vitro gastric digestion		
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M. Esperança Dalmau, V. S. Eim, C. Rosselló, J. A. Carcel, i S. Simal (2019) <i>Food & Function</i>, 10, 3209-3223 DOI: 10.1039/c8fo02421a	3.24	Q1
Influence of freezing on the bioaccessibility of beetroot (<i>Beta vulgaris</i>) bioactive compounds during in vitro gastric digestion M. Esperança Dalmau, P. J. Llabrés, V. S. Eim, C. Rosselló, i S. Simal (2019) <i>Journal Of The Science Of Food And Agriculture</i>, 99, 1055-1065 DOI: 10.1002/jsfa.9272	2.42	Q1
3 Influence of drying on in vitro gastric digestion of beetroot: evaluation of the microstructure M. Esperança Dalmau, J. A. Carcel, V. S. Eim, i S. Simal (2018) Conference: 21st International Drying Symposium (IDS), València, Espanya, 11-14 de setembre de 2018 <i>IDS 2018: 21st International Drying Symposium</i>, 57-64 DOI: 10.4995/ids2018.2018.7898	?	
4. Effects of freezing, freeze drying and convective drying on in vitro gastric digestion of apples M. Esperança Dalmau, G. Bornhorst V. S. Eim, C. Rosselló, i S. Simal (2017) <i>Food Chemistry</i>, 215, 7-16 DOI: 10.1016/j.foodchem.2016.07.134	3.39	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2018	Alba González López	<i>Diseño y desarrollo de sistemas microfluídicos automáticos para la determinación de contaminantes de interés ambiental</i>

Contribucions científiques derivades:

1 Development of an on-line lab-on-valve micro-solid phase extraction system coupled to liquid chromatography for the determination of flavonoids in citrus juices M. S. Sammani, S. Clavijo, Alba González, V. Cerdà (2019)	5.26	Q1
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<i>Analytica Chimica Acta</i>, 1082, 56-65 DOI: 10.1016/j.aca.2019.06.032 2 Development of an automatic sequential injection analysis-lab on valve system exploiting molecularly imprinted polymers coupled with high performance liquid chromatography for the determination of estrogens in wastewater samples Alba González i V. Cerdà (2020) <i>TALANTA</i>, 209, article number 120564 DOI: 10.1016/j.talanta.2019.120564 3 High-performance liquid chromatographic method for the simultaneous determination of four flavonoids in food supplements and pharmaceutical formulations M. S. Sammani, S. Clavijo, Alba González, i V. Cerdà (2019) <i>Analytical Letters</i>, 52, 1298-1314 DOI: 10.1080/00032719.2018.1536138 4 Estrogens determination exploiting a SIA-LOV system prior in-port derivatization-large volume injection-programmable temperature vaporization-gas chromatography Alba González, S. Clavijo, i V. Cerdà (2019) <i>Talanta</i>, 194, 852-858 DOI: 10.1016/j.talanta.2018.10.10 5 Microsequential injection lab-on-valve system for the spectrophotometric bi-parametric determination of iron and copper in natural waters Alba González, Raquel B. R. Mesquita, J. Avivar, T. Moniz, M. Rangel, V. Cerdà, António O.S. S. Rangel (2017) <i>Talanta</i>, 167, 703-708 DOI: 10.1016/j.talanta.2017.02.055 6 From thermometric to spectrophotometric kinetic-catalytic methods of analysis. A review V. Cerdà, Alba González, i K. Danchana (2017) <i>Talanta</i>, 167, 733-746 DOI: 10.1016/j.talanta.2017.02.004 7 In-syringe dispersive mu-SPE of estrogens using magnetic carbon microparticles obtained from zeolitic imidazolate frameworks Alba González, J. Avivar, F. Maya, C. Palomino Cabello, G. Turnes Palomino, i V. Cerdà (2017) <i>Analytical and Bioanalytical Chemistry</i>, 409, 225-234 DOI: 10.1007/s00216-016-9988-8 8 Estrogens determination in wastewater samples by automatic in-syringe dispersive liquid-liquid microextraction prior silylation and gas chromatography Alba González, J. Avivar, i V. Cerdà (2015) <i>Journal of Chromatography A</i>, 1413, 1-8	4.92 1.24 4.92 4.92 4.92 3.29 3.85	Q1 Q4 Q1 Q1 Q1 Q1 Q1
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DOI: 10.1016/j.chroma.2015.08.031 9 Determination of priority phenolic pollutants exploiting an in-syringe dispersive liquid-liquid microextraction-multisyringe chromatography system Alba González, J. Avivar, i V. Cerdà (2015) <i>Analytical and Bioanalytical Chemistry</i>, 407, 2013-2022 DOI: 10.1007/s00216-015-8464-1	3.29	Q1
10 Determination of herbicides in environmental water samples by means of a simultaneous in-syringe magnetic stirring-assisted dispersive liquid-liquid microextraction and silylation followed by GC-MS R. Suárez, S. Clavijo, Alba González, i V. Cerdà (2018) <i>Journal of Separation Science</i>, 41 1096-1103	1.25	Q4
11 High performance liquid chromatographic method for the simultaneous determination of four flavonols in food supplements and pharmaceutical formulations M. Subhi, S. Clavijo, Alba González López, i V. Cerdà (2019) <i>Analytical Letters</i>, 52,1-17. DOI: 10.1080/00032719.2018.1536138	5,26	Q1
12 Development of an on-line lab-on-valve micro-solid phase extraction system coupled to liquid chromatography for the determination of flavonoids in citrus juices M. Subhi Sammani, S. Clavijo, Alba González, i V. Cerdà (2019) <i>Analytica Chimica Acta</i>, 1082, 56-65 DOI: https://doi.org/10.1016/j.aca.2019.06.032	4.92	Q1
13 Development of an automatic SIA-LOV system exploiting molecularly imprinted polymers coupled with high performance liquid chromatography for the determination of estrogens in wastewater samples Alba González i V. Cerdà (2020) <i>Talanta</i>, 209, 120564. DOI: https://doi.org/10.1016/j.talanta.2019.120564		Q1

Any de defensa	Doctorand/a	Títol de la tesi
2018	María Susana Gutiérrez Gómez	<i>Síntesis y aplicación de compuestos híbridos nanoestructurados basados en óxido de hierro y/o nanodiamantes</i>

1	Introducing selectivity on carbonaceous material: removing noble salts, Au ³⁺ and Ag ⁺ from aqueous media by nanodiamonds functionalized with squaramides M. Susana Gutiérrez , K. A. López, J. Morey, i M. N. Piña (2020) <i>Materials</i> , 13, issue 5, Basel, Switzerland DOI:10.3390/ma13051086	2.97	Q2
2	A very highly efficient magnetic nanomaterial for the removal of pahs from aqueous media M. Susana Gutiérrez , P. Duel, F. Hierro, J. Morey, i N. Piña (2018) <i>Small</i> , 14, article number UNSP 1702573 DOI: 10.1002/smll.201702573	10.85	Q1
3	Adsorption and quantification of volatile organic compounds (VOCs) by using hybrid magnetic nanoparticles M. N. Piña, P. Rodríguez, M. Susana Gutiérrez , D. Quiñonero, J. Morey, i A. Frontera (2018) <i>Chemistry-a European Journal</i> , 24, 12820-12826 DOI: 10.1002/chem.201802945	5.16	Q1
4	Removal of Au ³⁺ and Ag ⁺ from aqueous media with magnetic nanoparticles functionalized with squaramide derivatives P. Duel, M. Susana Gutiérrez , P. Rodríguez, A. León, K.A. López, J. Morey, i M. N. Piña (2018) <i>RSC Advances</i> , 8, 36123-36132	3.04	Q2
5	Fast microwave-assisted conjugation of magnetic nanoparticles with carboxylates of biological interest M. Susana Gutiérrez , M. N. Piña, i J. Morey (2017) <i>RSC Advances</i> , 7, 19385-19390 DOI: 10.1039/c7ra00830a	3.04	Q2
6	Influence of the aromatic surface on the capacity of adsorption of VOCs by magnetite supported organic–inorganic hybrids M. N. Piña, M. Susana Gutiérrez , M. Penagos, P. Duel, A. León, J. Morey, D. Quiñonero, i A. Frontera (2019) <i>RSC Advances</i> , 9, 24184-24191 DOI: 10.1039/c9ra04490f	3.04	Q2

Any de defensa	Doctorand/a	Títol de la tesi
2019	Laura Mariño Pérez	<i>Effect of glycation on the protein structure, conformation and aggregation tendency</i>

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Contribucions científiques derivades:

1	The Janus face of N-terminal lysines in α -synuclein A. B. Uceda, Laura Mariño , M. Adrover (2020) <i>Neural Regeneration Research</i> 15(10), 1840-1841 DOI:10.4103/1673-5374.280309	2.47	Q3
2	Unravelling the effect of N(ϵ)-(carboxyethyl)lysine on the conformation, dynamics and aggregation propensity of α -synuclein Laura Mariño , R. Ramis, R. Casasnovas, J. Ortega Castro, B. Vilanova, J. Frau, i M. Adrover (2020) <i>Chemical Science</i> , 11, 3332 DOI: 10.1039/d0sc00906g	9.56	Q1
3	Unravelling the effect of N(ϵ)-(carboxymethyl)lysine (CML) and N(ϵ)-(carboxyethyl)lysine (CEL) on the ability of α -Synuclein to reduce the formation of Cu^{2+} -catalyzed reactive oxygen species M. Adrover, H. M. Martínez Orozco, A. B. Uceda, Laura Mariño , B. Vilanova, J. Ortega Castro, i J. Frau (2019) <i>Free Radical Biology and Medicine</i> , 139, S10-S10 supplement 1 Document type: conference abstract	5.66	Q1
4	Nitration and glycation diminish the α -Synuclein role in the formation and scavenging of Cu^{2+} -catalyzed reactive oxygen species H. Martínez Orozco, Laura Mariño , A. B. Uceda, J. Ortega Castro, B. Vilanova, J. Frau, i M. Adrover (2019) <i>ACS Chemical Neuroscience</i> , 10, 2919-2930 DOI: 10.1021/acscchemneuro.9b00142	3.86	Q1
5	Does glycation really distort the peptide α -helicity? Laura Mariño , R. Casasnovas, R. Ramis, B. Vilanova, J. Ortega Castro, J. Frau, i M. Adrover (2019) <i>International Journal of Biological Macromolecules</i> , 129, 254-266 DOI: 10.1016/j.ijbiomac.2019.01.213	4.78	Q1
6.	A coarse-grained molecular dynamics approach to the study of the intrinsically disordered protein α -Synuclein R. Ramis, J. Ortega Castro, R. Casasnovas, Laura Mariño , B. Vilanova, M. Adrover, i J. Frau (2019) <i>Journal of Chemical Information and Modeling</i> , 59, 1458-1471 DOI: 10.1021/acs.jcim.8b00921	3.97	Q1
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Glycation of lysozyme by glycolaldehyde provides new mechanistic insights in diabetes-related protein aggregation Laura Mariño, C. Maya Aguirre, K. Pauwels, B. Vilanova, J. Ortega Castro, J. Frau, J. Donoso, i M. Adrover (2017) <i>ACS Chemical Biology</i>, 12, 1152-1162 DOI: 10.1021/acscchembio.6b01103	4.59	Q1
8 Ortho-methylated 3-hydroxypyridines hinder hen egg-white lysozyme fibrillogenesis Laura Mariño, K. Pauwels, R. Casasnovas, P. Sanchis, B. Vilanova, F. Muñoz, J. Donoso, i M. Adrover (2015) <i>Scientific Reports</i>, 5, article number 12052 DOI: 10.1038/srep12052	5.23	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2020	Sandra Yadira Mendiola Álvarez	<i>Degradación de sulfonamidas y remoción de NOx utilizando el catalizador Fe2O3-TiO2/P bajo radiación visible</i>

Contribucions científiques derivades:

1 Coupled heterogeneous photocatalysis using a P-TiO₂-αFe₂O₃ catalyst and K₂S₂O₈ for the efficient degradation of a sulfonamide mixture Sandra Yadira Mendiola Álvarez, C. Palomino Cabello, G. Turnes Palomino, M. A. Hernández Ramírez, J. L. Guzmán Mar, i L. Hinojosa Reyes (2020) <i>Journal of Photochemistry and Photobiology A: Chemistry</i>, 394,112485 DOI: 10.1016/j.cattod.2019.01.004	3.26	Q2
2 A novel P-doped Fe₂O₃-TiO₂ mixed oxide: synthesis, characterization and photocatalytic activity under visible radiation Sandra Yadira Mendiola Álvarez, M. A. Hernández.Ramírez, J. L. Guzmán Mar, M. L. Maya Treviño, A. Caballero Quintero, i L. Hinojosa Reyes (2019) <i>Catalysis Today</i>, 328, 91-98 DOI: 10.1016/j.cattod.2019.01.004.	4.89	Q1
3 Phosphorous-doped TiO₂ nanoparticles: synthesis, characterization, and visible photocatalytic evaluation on sulfamethazine degradation Sandra Yadira Mendiola Álvarez, M. A. Hernández Ramírez, J. L. Guzmán Mar, L. L. Garza Tovar, i L. Hinojosa Reyes (2018) <i>Environmental Science and Pollution Research</i>, 26, 4180-4191 DOI: 10.1007/s11356-018-2314-6	2.91	Q2

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Any de defensa	Doctorand/a	Títol de la tesi
2015	José María Natta March	<i>El programa informático APPO y su aplicación a los accidentes de mercancías peligrosas derivadas del petróleo</i>

Contribucions científiques derivades:

Programa APPO (Accidentes de mercancías Peligrosas derivadas del PetrOleo). José María Natta i J. R. Bergueiro URI: http://hdl.handle.net/11201/2521 Propietat de la UIB i del qual fan ús les empreses del llistat: Antonio Nadal Destileries (SLU) i també la destil·leria Bodegas Suau, i algunes empreses de transports de mercaderies (contidors d'alcohol, etc.): Transportes Marítimos Alcúdia, SA Transportes Solazo, SA CONCISA Transmediterranea Cargo		
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Any de defensa	Doctorand/a	Títol tesi
2020	Miguel Oliver Rodríguez	<i>Novel bioavailability tests for risk assessment of organic emerging contaminants in environmental samples and food commodities: a holistic approach</i>

Contribucions científiques derivades:

1	In quest of effect directed analysis in the smart laboratory: Automated system for flow-through evaluation of membranotropic effects of emerging contaminants Miguel Oliver, M. Roca Jiménez, M. Miró, i D. J. Cocoví Solberg (2020) <i>Talanta</i>, 209, article number 120600 DOI: 10.1016/j.talanta.2019.120600	4.92	Q1
2	Ecotoxicological equilibria of triclosan in Microtox, XenoScreen YES/YAS, Caco2, HEPG2 and liposomal systems are affected by the occurrence of other pharmaceutical and personal care emerging contaminants	5.59	Q1

Miguel Oliver, B. Kudlak, M. Wiczerzak, S. Reis, S. A. C. Lima, M. A. Segundo, i M. Miró (2020) <i>The Science of the Total Environment</i>, 719, 137358, publicat el 20 de febrer de 2020 (epub: 16 de febrer de 2020) DOI: 10.1016/j.scitotenv.2020.137358		
3 Reliable sensing platform for plasmonic enzyme-linked immunosorbent assays based on automatic flow-based methodology N. Kaewwonglom, Miguel Oliver, D. J. Cocó Solberg, K. Zirngibl, D. Knopp, J. Jakmunee, i M. Miró (2019) <i>Analytical Chemistry</i>, 91,13260-13267 DOI: 10.1021/acs.analchem.9b03855	6.35	Q1
4 Fluorescent lipid nanoparticles as biomembrane models for exploring emerging contaminant bioavailability supported by density functional theory calculations Miguel Oliver, A. Bauzá, A. Frontera, i M. Miró (2016) <i>Environmental Science & Technology</i>, 50, issue 13, special issue, 7135-7143 DOI: 10.1021/acs.est.6b00772	7.15	Q1
5 High-throughput automatic flow method for determination of trace concentrations of aluminum in dialysis concentrate solutions using salicylaldehyde picolinoylhydrazide as a turn-on fluorescent probe A. Garau, Miguel Oliver, M. Rosende, M. P. Manuel Vez, i M. Miró (2015) <i>Talanta</i>, 133, special issue: SI, 120-126 DOI: 10.1016/j.talanta.2014.04.094	4.92	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2019	Joana Palou Mir	<i>B12-Riboswitch from klebsiella pneumoniae as target for new antibiotics. Interaction study with natural and synthetic adenosylcobalamin derivatives</i>

Contribucions científiques derivades:

1 Characterization of the full-length btuB riboswitch from Klebsiella pneumoniae Joana Palou Mir, A. Musiari, R. K. O. Sigel, i M. Barceló Oliver (2016) <i>Journal of Inorganic Biochemistry</i>, 160, 106-113 DOI: 10.1016/j.jinorgbio.2015.12.012	3.22	Q1
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Any de defensa	Doctorand/a	Títol de la tesi
2018	Melisa Alejandra Rodas Ceballos	<i>Development of devices to integrate in automatic methodologies for determining radionuclides in residues and environmental samples</i>

Contribucions científiques derivades:

1 Flow-through magnetic-stirring assisted system for uranium(VI) extraction: First 3D printed device application Melisa A. Rodas Ceballos , J. M. Estela, V. Cerdà, i L. Ferrer (2019) <i>Talanta</i> , 202, 267-273 DOI: 10.1016/j.talanta.2019.05.026	4.92	Q1
2. 3D printed resin-coated device for uranium (VI) extraction Melisa A. Rodas Ceballos , F. M. González Serra, J. M. Estela, i V.Cerdà (2019) <i>Talanta</i> , 196, 510-514 DOI: 10.1016/j.talanta.2018.12.055	4.92	Q1
3. Ra-226 dynamic lixiviation from phosphogypsum samples by an automatic flow-through system with integrated renewable solid-phase extraction Melisa A. Rodas Ceballos , A. Borrás, R. García Tenorio, R. Rodríguez, J. M. Estela, V. Cerdà, i L. Ferrer (2017) <i>Talanta</i> , 167, 398-403 DOI: 10.1016/j.talanta.2017.02.036	4.92	Q1
4. Monitoring of Be-7 and gross beta in particulate matter of surface air from Mallorca Island, Spain Melisa A. Rodas Ceballos , A. Borrás, E. Gomila, J. M. Estela, V. Cerdà, i L. Ferrer (2016) <i>Chemosphere</i> , 152, 481-489 DOI: 10.1016/j.chemosphere.2016.03.021	5.10	Q1
5 An integrated automatic system to evaluate U and Th dynamic lixiviation from solid matrices, and to extract/pre-concentrate leached analytes previous ICP-MS detection Melisa A. Rodas , R. García Tenorio, J. M. Estela, V. Cerdà, i L. Ferrer (2017) <i>Talanta</i> , 175, 507-513.	4.91	Q1

DOI: 10.1016/j.talanta.2017.07.061		
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Any de defensa	Doctorand/a	Títol de la tesi
2016	Rogelio Rodríguez Maese	<i>Automatización de métodos radioquímicos para la separación y preconcentración de radionúclidos en muestras ambientales</i>

Contribucions científiques derivades:

1 Strategies for automating solid-phase extraction and liquid-liquid extraction in radiochemical analysis Rogelio Rodríguez, J. Avivar, L. Leal, V. Cerdà, i L. Ferrer (2016) <i>Trends in Analytical Chemistry-TrAC</i>, 76, 145–152 DOI: 10.1016/j.trac.2015.09.009	8.3	Q1
2 MSFIA-LOV system for ²²⁶Ra isolation and pre-concentration from water samples previous radiometric detection Rogelio Rodríguez, A. Borràs, L. Leal, V. Cerdà, i L. Ferrer (2016) <i>Analytica Chimica Acta</i>, 911, 75–81. DOI: 10.1016/j.aca.2016.01.004	4.9	Q1
3 Uranium monitoring tool for rapid analysis of environmental samples based on automated liquid-liquid microextraction Rogelio Rodríguez, J. Avivar, L. Ferrer, L. Leal, i V. Cerdà (2015) <i>Talanta</i>, 134, 674–680. DOI: 10.1016/j.talanta.2014.12.007	4.0 (2015)	Q1
4 Automation of ⁹⁹Tc extraction by LOV prior ICP-MS detection: application to environmental samples Rogelio Rodríguez, L. Leal, S. Miranda, L. Ferrer, J. Avivar, A. García, V. Cerdà (2015) <i>Talanta</i>, 133, 88–93. DOI: 10.1016/j.talanta.2014.04.093	4.0 (2015)	Q1
Altres articles 1 Automated total and radioactive strontium separation and preconcentration in samples of environmental interest exploiting a lab-on-valve system Rogelio Rodríguez, J. Avivar, L. Ferrer, L. Leal, i V. Cerdà (2012) <i>Talanta</i>, 96, 96–101 DOI: 10.1016/j.talanta.2011.11.042	3.7 (2012)	Q!

2	Fully automatic system for lead monitoring in water Rogelio Rodríguez , L. Ferrer, V. Cerdà, i L. O. Leal (2020) <i>Microchemical Journal</i> , 154, 104450 DOI: 10.1016/j.microc.2019.104550	3.21	Q2
3	Automatic solid phase extraction of cadmium from tobacco samples exploiting a multicommutated flow system previous icp-ms detection A. Cervantes, Rogelio Rodríguez , L. Ferrer, V. Cerdà, i L. O. Leal (2017) <i>Microchemical Journal</i> , 132,107-111	3.21	Q2
4	²²⁶ Ra dynamic lixiviation from phosphogypsum samples by an automatic flow-through system with integrated renewable solid-phase extraction M. Rodas Ceballos, A. Borràs, R. García Tenorio, Rogelio Rodríguez , J. M. Estela, i V. Cerdà (2017) <i>Talanta</i> , 167, 398-403	4.91	Q2

Any de defensa	Doctorand/a	Títol de la tesi
2018	Adrián Rodríguez Rodríguez	<i>Litiasis renal: avances en el estudio de inhibidores de la cristalización y en nuevas herramientas diagnósticas</i>

Contribucions científiques derivades:

1	Association of adherence to the Mediterranean diet with urinary factors favoring renal lithiasis: cross-sectional study of overweight individuals with metabolic syndrome R. M. Prieto, Adrián Rodríguez , P. Sanchís, M. Morey, M. Fiol, F. Grases, O. Castañer, M. A. Martínez Gonzalez, J. Salas Salvadó, i D. Romaguera (2019) <i>Nutrients</i> , 11, article number 1708 DOI: 10.3390/nu11081708	4.17	Q1
2	Urinary phytate concentration and risk of fracture determined by the FRAX index in a group of postmenopausal women A. López González, F. Grases, B. Marí, M. Tomás Salvá, i Adrián Rodríguez (2019) <i>Turkish Journal of Medical Sciences</i> , 49, 458-463 DOI: 10.3906/sag-1806-117	0,60	Q4
3	Effect of sample time on urinary lithogenic risk indexes in healthy and stone-forming adults and children		

Adrián Rodríguez, C. Sáez Torres, C. Mir, P. Casasayas, N. Rodríguez, G. Frontera, J. M. Buades, C. Gómez, A. Costa Bauzá, i F. Grases (2018) <i>BMC Urology</i>, 18, article number 116, 3 DOI: 10.1186/s12894-018-0430-8	1.58	Q3
4 Orbitrap TM high-resolution mass spectrometry for the identification of amoxicillin crystalluria B. Barceló, Adrián Rodríguez, M. López Ocón, A. Costa Bauzá, I. Gomila, M. B. B. Cogul, i F. Grases (2018) <i>Clinical Chemistry and Laboratory Medicine</i>, 56, E268-E271 DOI: 10.1515/cclm-2018-0163	3.63	Q1
5 Effect of consumption of cocoa-derived products on uric acid crystallization in urine of healthy volunteers A. Costa Bauzá, F. Grases, P. Calvo, Adrián Rodríguez, i R. M. Prieto (2018) <i>Nutrients</i>, 10, article number 1516 DOI: 10.1515/cclm-2018-0163 5	4.17	Q1
6 Xanthine urolithiasis: inhibitors of xanthine crystallization F. Grases, A. Costa Bauzá, J. Roig, Adrián Rodríguez (2018) <i>PLOS One</i>, 13, article number e0198881 DOI: 10.1371/journal.pone.0198881	1.95	Q2
7 Quantification of xanthine- and uric acid-related compounds in urine using a “dilute-and-shoot” technique coupling ultra-high-performance liquid chromatography and high-resolution Orbitrap mass spectrometry A. Rodríguez, R. M. Gomila, G. Martorell, A. Costa Bauzá, i F. Grases (2017) <i>Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences</i>, 1067, 53-60 DOI: 10.1016/j.jchromb.2017.09.047	2.81	Q2
8 Ap(caox) index and calcium/citrate ratio may represent useful tools to assess the risk of crystallization in pediatric renal lithiasis J. Lumbreras, M. D. Rodrigo, C. Saéz, Adrián Rodríguez, N. Espinosa. C. Mir, R. Prieto, C. Gómez, F. Grases (2017) <i>Pediatric Nephrology</i>, 32,1812-1812, eeting abstract: P-408	2.82	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2015	José Martín Rosas Castor	<i>Estudio de la acumulación y especiación de arsénico en cultivos de maíz y su riesgo potencial para la salud humana</i>

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1	An evaluation of the bioaccessibility of arsenic in corn and rice samples based on cloud point extraction and hydride generation coupled to atomic fluorescence spectrometry José M. Rosas, L. Portugal, L. Ferrer, L. Hinojosa, R. Jorge, L. Guzmán, M. A. Hernández, i V. Cerdà (2016) <i>Food Chemistry</i>, 204, 475-482	5.4	Q1
2	Arsenic fractionation in agricultural soils using a modified BCR three-step flow-based sequential extraction method by hydride generation-atomic fluorescence spectrometry José M. Rosas, L. Portugal, L. Ferrer, J. L. Guzmán, A. Hernández, V. Cerdà, i L. Hinojosa (2015) <i>Anal. Chim. Acta</i>, 874, 1-10	5.26	Q1
3	Arsenic accumulation in maize crop (<i>zea mays</i>): a review. José M. Rosas, J. Guzmán, A. Hernández, M. Garza, i L. Hinojosa (2014) <i>Science of The Total Environment</i>, 488–489, 176–187. DOI: 10.1016/j.scitotenv.2014.04.075	4.1	Q1
4	Evaluation of the transfer of soil arsenic to maize crops in suburban areas of San Luis Potosi, Mexico. José M. Rosas, J. Guzmán, A. Hernández, M. Garza, i L. Hinojosa (2014) <i>Science of The Total Environment</i>, 497–498, 153–162 DOI: 10.1016/j.scitotenv.2014.07.072	4.1	Q1
Altres articles			
	Cloud point extraction method for bioaccessible arsenic determination in corn and rice samples José M. Rosas, L. Hinojosa, L. Portugal, L. Ferrer, J. L. Guzmán, A. Hernández, i V. Cerdà (2016) <i>Toxicology Letters</i>, 259S, S73–S247	3,5	Q1

Contribucions científiques derivades:

Any de defensa	Doctorand/a	Títol de la tesi
2019	Daniel Salazar	<i>Determinación de ftalatos en PET, su grado de</i>

	Beltrán	<i>migración al agua y su degradación mediante fotocatalisis heterogénea</i>
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Contribucions científiques derivades:

1	Nanoparticle@Metal-Organic frameworks as a template for hierarchical porous carbon sponges Daniel Salazar , C. Palomino, J. L. Guzmán, I. Hinojosa, G. Turnes, i F. Maya (2018) <i>Chemistry Eur. J.</i> , 24, 13450-13456 DOI: 10.1002/chem.201802545	5.16	Q1
2	Determination of phthalate acid esters plasticizers in polyethylene terephthalate bottles and its correlation with some physicochemical properties Daniel Salazar , C. Palomino, J. L. Guzmán, I. Hinojosa, G. Turnes, i F. Maya (2018) <i>Polymer Testing</i> , 68, 87-94	2.94	Q1
3	Automated on-line monitoring of the TiO ₂ -based photocatalytic degradation of dimethyl phthalate and diethyl phthalate Daniel Salazar , I. Hinojosa, F. Maya, G. Turnes, C. Palomino, A. Hernández, J. L. Guzmán (2019) <i>Photochemical and Photobiological Sciences</i> , 18, 863-870 DOI: 10.1039/c8pp00307f	2.41	Q3
4	Phthalates in beverages and plastic bottles: sample preparation and determination Daniel Salazar , L. Hinojosa, E. Ruiz, A. Hernández, J. L. Guzmán (2018) <i>Food Analytical Methods</i> , 11, 48-61 DOI: 10.1007/s12161-017-0961-8	2.41	Q2
5	Determination of phthalates in bottled water by automated on-line solid phase extraction coupled to high performance liquid chromatography with UV detection Daniel Salazar , L. Hinojosa, E. Ruiz, A. Hernández, J. L. Guzmán (2017) <i>Talanta</i> , 168, 291-297 DOI: http://dx.doi.org/10.1016/j.talanta.2017.03.060	4.92	Q1

Any de defensa	Doctorand/a	Títol de la tesi
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2019	Francisca Vallespir Torrens	<i>Drying process intensification by using freezing pre-treatments and ultrasound application at high and low temperature</i>
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Contribucions científiques derivades:

1. Intensification of low-temperature drying of mushroom by means of power ultrasound: effects on drying kinetics and quality parameters Francisca Vallespir , L. Crescenzo, O. Rodríguez, F. Marra, i S. Simal (2019) <i>Food and Bioprocess Technology</i> , 12, 839-851 DOI: 10.1007/s11947-019-02263-5	3.03	Q2
2. Effects of freezing treatments before convective drying on quality parameters: vegetables with different microstructures Francisca Vallespir , O. Rodríguez, V. S. Eim, C. Rosselló, i S. Simal (2019) <i>Journal of Food Engineering</i> , 249, 15-24 DOI: 10.1016/j.jfoodeng.2019.01.006	3.62	Q1
3. Ultrasound assisted low-temperature drying of kiwifruit: Effects on drying kinetics, bioactive compounds and antioxidant activity Francisca Vallespir , O. Rodríguez, J. A. Carcel, C. Rosselló, i S. Simal (2019) <i>Journal of The Science of Food and Agriculture</i> , 99, 2901-2909 DOI: 10.1002/jsfa.9503	2.42	Q2
4. Freezing pre-treatments on the intensification of the drying process of vegetables with different structures Francisca Vallespir , O. Rodríguez, V. S. Eim, C. Rosselló, i S. Simal (2018) <i>Journal of Food Engineering</i> , 239, 83-91 DOI: 10.1016/j.jfoodeng.2018.07.008	3.62	Q1
5. Improvement of mass transfer by freezing pre-treatment and ultrasound application on the convective drying of beetroot (<i>Beta vulgaris</i> L.) Francisca Vallespir , J. A. Carcel, F. Marra, V. S. Eim, i S. Simal (2018) <i>Food and Bioprocess Technology</i> , 11, 72-83 DOI: 10.1007/s11947-017-1999-8	3.03	Q2

Any de defensa	Doctorand/a	Títol de la tesi
2017	Marina Villar Pulido	<i>Sistemas en flujo automatizados para extraer, preconcentrar y determinar tecnecio-99 en muestras biológicas y en residuos de medicina nuclear</i>

Contribucions científiques derivades:

1	Fully automated system for Tc-99 monitoring in hospital and urban residues: a simple approach to waste management Marina Villar , A. Borràs, J. Avivar, F. Vega, V. Cerdà, i L. Ferrer (2017) <i>Analytical Chemistry</i> , 89, 5858-5864 DOI: 10.1021/acs.analchem.7b00184	6.35	Q1
2	Automatic in-syringe dispersive liquid-liquid microextraction of Tc-99 from biological samples and hospital residues prior to liquid scintillation counting Marina Villar , J. Avivar, L. Ferrer, A. Borràs F. Vega, V. Cerdà, i L. Ferrer (2015) <i>Analytical and Bioanalytical Chemistry</i> , 407, 5571-5578 DOI: 10.1007/s00216-015-8761-8	3.28	Q1
3	Automatic and simple method for Tc-99 determination using a selective resin and liquid scintillation detection applied to urine samples Marina Villar , J. Avivar, L. Ferrer, M. Galmés, F. Vega, V. Cerdà, i L. Ferrer (2013) <i>Analytical Chemistry</i> , 85, 5491-5498 DOI: 10.1021/ac4006217	6.35	Q1

Any de defensa	Doctorand/a	Títol de la tesi
2019	Marta Ximenis Campins	<i>Development of squaramide-based self-immolative spacers for drug delivery</i>

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Contribucions científiques derivades:

1. Water-soluble squaramide dihydrates: n-Methylation modulates the occurrence of one- and two-dimensional water clusters through hydrogen bonding and dipolar interactions Marta Ximenis , J. Pitarch, S. Blasco, C. Rotger, E. Garcia, i A. Costa (2018) <i>Crystal Growth & Design</i> , 18, 4420-4427 DOI: 10.1021/acs.cgd.8b00401	4.15	Q1
2. Kinetic analysis and mechanism of the hydrolytic degradation of squaramides and squaramic acids Marta Ximenis , E. Bustelo, A. G. Algarra, M. Vega, C. Rotger, M. G. Basallote, i A. Costa (2017) <i>Journal of Organic Chemistry</i> , 82, 2160-2170 DOI: 10.1021/acs.joc.6b02963	5.16	Q1