

CV date	30-09-2023
---------	------------

Part A. PERSONAL INFORMATION

First name	Julia		
Family name	Pérez Prieto		
Gender (*)	Female		
Social Security, Passport, ID number			
e-mail	Julia.perez@uv.es	URL Web http://jperezprieto-prg.com/	
Open Research and Contributor ID (ORCID)(*)	0000-0002-5833-341X		

(*) Mandatory

A.1. Current position

Position	Professor Dr./Catedrática de Universidad		
Initial date	18/01/2007		
Institution	Universitat de Valencia		
Departament/Center	Institute of Molecular Science (ICMol)		
Country	Spain	Teleph. number	
Key words	Organic Chemistry, Photochemistry, Photoactive Nanomaterials		

A.2. Previous positions (research activity interruptions, art. 45.2.c)) Not apply

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Degree Ciencias Químicas	Universidad de Oviedo	1981
Doctor Ciencia Químicas	Universidad de Oviedo	1984

Aportac, relev, contri gener conoc, ideas, hipóte y resul, como lcomunicado, financ , capac cient tecn, respons cient, colabiaci, liderazgo. Aport sociedad, colab indus, formac inv

Part B. CV SUMMARY

Julia Pérez-Prieto: Articles: **190**. “Sexenios de investigación”: **5** (date of the last term 2017); Thesis supervised **16**; since 1st January 2010:**7**; Total Citations: **5577** (Scopus), average citation/year:**110.33**, h index (Scopus): **33**. Thesis on-going: **7**.

Dr Julia Pérez-Prieto is Professor of Organic Chemistry at the ICMol of UVEG and the leader of the “Photochemical Reactivity Group (PRG) <https://jperezprieto-prg.com/>” She has been on the Executive Committee of the European Photochemistry Association (EPA) from July 2010-July 2020 and was the President of the EPA from July 2016-July 2018. She has been a collaborator of the Spanish Research Agency in the Area of Chemistry from June 2015-June 2020 and a member of several international committees. Prof Pérez-Prieto has experience in the design and synthesis of photoactive materials for application in sensing/photocatalysis/bioimaging/singlet oxygen generation, and emissive devices, among others. **She has authored 190 papers**, published in prestigious, high impact, peer-reviewed publications (J.Am.Chem.Soc., Chem.Mater.; Adv.Funct.Mat.; Nanoscale, Small, Angew. Chemie, Chem.Eur.J.; Chem.Commun., ACS Energy Letters, etc.) in the field of photochemistry, chemical reactivity, and nanomaterials. Co-Editor of a book and co-author of 10 book chapters.

Principal Researcher in 9 projects “I+D+I State Program Oriented to the Challenges of Society”, she has also been awarded with two **PROMETEO grants** (PROMETEO/2019/080) and PROMETEO 2023 (ref: CIPROM/2022/57) for research groups of excellence funded by The Generalitat Valenciana. Her group has also been awarded with a ca. 2 million euros for acquiring state-of-the-art equipment (IDIFEDER/2018/064 and IDIFEDER/2021/064). She has been one of the IPs in the CMST COST Action CM1403 and member of the Steering Committee; Dr. Pérez-Prieto has been the organizer of the

2nd Conference and Spring School on Properties, Design and Applications of Upconverting Nanomaterials, in Valencia April 2018. **Pérez-Prieto research interest focuses in the area of preparation of functional nanomaterials** based on semiconducting (e.g., hybrid and all-inorganic lead halide perovskites), metal (e.g., gold nanoparticles and gold nanoclusters), and upconversion nanomaterials (lanthanide-doped matrices), as well as in the preparation of nanohybrids based on the combination of this kind of materials. The expertise in the photophysical and photochemical characterization of these materials by steady-state and time-resolved techniques has now been further exploited in her group by the recent availability of steady-state and time-resolved techniques which enable to embrace studies of materials absorbing at different wavelengths of the UV-NIR-II range. **Dr Pérez-Prieto has acted as the supervisor of a total of 16 PhD theses**, some of them co-supervised with other team members (4 R.G.; 1 E. Z.; 2 M. G-B.) and currently **is supervising 7 PhD theses**. Prof Pérez-Prieto has directed a considerable number of research works/dissertations/master theses. Her group has great interest in research training, which is made also evident by the supervision of final year projects (Chemistry Degree) and the hosting of Erasmus students. Our group is also participating in the Youth Guarantee Plus Plan, aimed to improve the qualification of young people so that they acquire the professional and technical skills necessary to enter the labor market.

She has supervised research stays/master thesis/ doctoral thesis of foreign students/researchers from Argentina/Colombia/Venezuela/Ecuador/Mexico/India/France/Italy and Germany. The group is very dynamic and frequently attracts PhD students, post-docs, and visiting professors from other universities. The training of the graduate students is achieved by a systematic tutorial guidance of the laboratory work, combined with a programme of courses, lectures and seminars and are also trained in giving presentations to an audience, as well as writing of reports. The more experienced researchers of the group actively contribute to the training of the youngest members and to the management of the research project. Performing a doctorate in Dr Pérez-Prieto's group has led to high-trained researchers whose expertise has been prized by both academic world [5 staff researchers, at the UMH (1), UVEG (2), CIC-Microgune (1), ICIQ (1), UNAM (1), and the Health Research Institute La Fe/Valencia (1)] and in industry [Lilly Pharmaceuticals/Madrid (1), Lohmann GmbH & Co KG (1), AIDIMME (1)]. Eleven out of sixteen of the doctors trained in her group have performed postdoctoral training abroad: European countries (6), Canada (3) and the USA (2). One of the most valuable skills of her group is its interdisciplinarity and, as can be demonstrated by the group's publications in the different fields, and the topics addressed in the supervised theses. Collaborations with National/International Researchers resulting in publications can be seen in the group webpage indicated above. She is member of the RSEQ and the ACS.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications

1. I Rosa-Pardo, RB Cevallos-Toledo, L Polavarapu, R Arenal, RE Galian, Pérez-Prieto. (2022). Revisiting the nontemplate approach for the synthesis of highly Green emissive hybrid perovskite nanocrystals: platelets or spheres? *Nanoscale*, DOI: 10.1039/D1NR07806B . **IF: 7,790**
2. R.B. Cevallos-Toledo, I. Rosa-Pardo, R. Arenal, R., Oestreicher, V., Fickert, M., Abellán, G., Galian, R.E., Pérez-Prieto, J. (2021). Ruddlesden-Popper Hybrid Lead Bromide Perovskite Nanosheets of Phase Pure $n=2$: Stabilized Colloids Stored in the Solid State. *Angew. Chem. Int. Ed.* 60, 27312–27317. **IF: 12.959**
3. A. Dey, J. Ye, A. De,... R.L.Z. Hoye, L. Polavarapu (2021). State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, 15, 10775–10981. **IF: 14.79** (70/48).
4. N. Estebanez, J. Ferrera-González, I. A. Cortez-Cevallos, M. González-Béjar, J. Pérez-Prieto. (2020) Lengthening the Lifetime of Common Emissive Probes to Microseconds by a Jigsaw-Like Construction of NIR-Responsive Nanohybrids. *Adv. Optical. Mater.*, 8, 1902030 (7 pages).
5. N. Estebanez, A. Cortés-Villena, J. Ferrera-González, M. González-Béjar, R. E. Galian, S. González-Carrero, J. Pérez-Prieto (2020). Linear Coassembly of Upconversion and Perovskite Nanoparticles: Sensitized Upconversion Emission of Perovskites by Lanthanide-Doped Nanoparticles. *Adv. Funct. Mater.* 30, 2003766 (9 pages). **IF: 16.836**

6. D. Cuaran-Acosta, P. Londoño-Larrea, E. Zaballos-García, J. Pérez-Prieto (2019). Reversible pH-induced fluorescence colour change of gold nanoclusters based on pH-regulated surface interactions. *Chem. Commun.* 55, 1604-1606. **IF: 5.996**
7. A. Call, F. Franco, N. Kandoth, S. Fernández, M. González-Béjar, J. Pérez-Prieto, J. M. Luis, J. Lloret-Fillol. (2018). Understanding light-driven H₂ evolution through the electronic tuning of aminopyridine cobalt complexes. *Chem. Sci.*, 9, 2609–2619. **IF: 9.556**
8. A. Company, G. Sabeña, M. Gonzalez-Bejar, L. Gomez, M. Clémancey, G. Blondin, A. J. Jasniowski, M. Puri, W. Browne, J.M. Latour, L. Que, Jr., M. Costas, J. Pérez-Prieto, J. Lloret-Fillol Julio. (2014). Triggering the generation of an iron(IV)-oxo compound and its reactivity towards sulfides by Ru^{II} photocatalysis. *J. Am. Chem. Soc.* 136, 4624 - 4633. **IF: 13.856**
9. L. C. Schmidt; A. Pertegás; S González-Carrero; O. Malinkiewicz; S. Agouram; G Mínguez Espallargas; H. J. Bolink; R. E. Galián; J. Perez-Prieto. (2014) Nontemplate Synthesis of CH₃NH₃PbBr₃ Perovskite Nanoparticles. *J. Am. Chem. Soc.* 136, 850 - 853 **IF: 13.856**
10. Prashant D. Wadhavane, Raquel E. Galian, M. Angeles Izquierdo, Jordi Aguilera-Sigalat, Francisco Galindo, Luciana Schmidt, M. Isabel Burguete, Julia Pérez Prieto, Santiago V. Luis. (2012). Photoluminescence Enhancement of CdSe Quantum Dots: A Case of Organogel-Nanoparticle Symbiosis. *J. Am. Chem. Soc.* 134, 20554-20563. **IF: 13.856**

C.2. Congress

Julia Pérez-Prieto (selected Invited Talks)

- **Keynote Lecture: J. Pérez-Prieto**, J. Ferrera-Gonzalez, L. Francés-Soriano, N. Estebanez, E. Navarro-Raga, M. González-Béjar. UPCON2021 (virtual), 6th-9th April 2021, Compiègne, France. NIR-triggered nanohybrids: construction and visualization.

- **Invited Lecture:** R.B. Cevallos-Toledo, R.B., I.Rosa-Pardo, R.Arenal, V.Oestreicher, M. Fickert, G.Abellán, R.E. Galian, **J. Pérez-Prieto**. European Materials Research Society (virtual), September 20th– 23rd September, 2021. Ruddlesden-Popper Hybrid Lead Bromide Perovskite: thin nanosheets of phase pure and their stabilization and storage.

- **Invited Lecture:** Nestor Estébanez, Laura Francés-Soriano, Juan Ferrera-González, María González-Béjar, **Julia Pérez-Prieto**. 17th Congress of the International Union of Photobiology and 18th Congress of the European Society for Photobiology, ESP-IUPB World Congress, 25-30 August 2019. Barcelona (Spain). Upconversion Nanomaterials for Photobiological Applications.

***Chairwoman and Organizer of the Symposium PCHEM-4:** Upconverting nanoparticles

- **Invited Lecture. Julia Pérez-Prieto.** XXXVII Reunión Bienal RSEQ 26-30 May 2019. San Sebastián (Spain). Sensing Based on the Intrinsic Properties of Photoactive Nanoparticles.

- **Invited Lecture.** Nestor Estébanez, Laura Francés-Soriano, Soranyel González-Carrero, Raquel E. Galian, Maria González-Béjar, **Julia Pérez-Prieto**. 27th PhotoIUPAC Conference. 8th-13th July 2018, Dublin (Irlanda). Design of Functional Upconversion Nanomaterials.

- **Invited Lecture: Julia Pérez-Prieto**, Soranyel González-Carrero, Luciana C. Schmidt, Ignacio Rosa-Pardo, Raquel E. Galian. VIth Jornadas Ibéricas de Fotoquímica, 11th-14th September 2018, Aveiro (Portugal). Exceptional Optical Features of Lead Halide Perovskites

- **Invited Lecture: Julia Pérez-Prieto.** MAF 2017. 10th-13th September 2017, Bruges Belgium. Hybrid 3D Organic-Inorganic Lead Halide Perovskite Nanoparticles: Focus On The Synergy With Their Capping

C.3. Research projects

1. **PROMETEO/2019/080**; Efectos Sinérgicos Nanoparticula-Ligando en la Síntesis de Nuevos Nanomateriales Fotoactivos y su Funcionalidad. Generalitat Valenciana-Programa Prometeo para Grupos de Investigación de Excelencia. **Julia Pérez Prieto**. Universitat de Valencia. 2019-2022. 306298 €. **IP**.

2. **RTC-2016-5114-5**; Síntesis Avanzada de Nanofluoroforos Incoloros. Ministerio de Economía y Competitividad. Proyectos I+D+i «Retos Investigación» 2018. IPs: **Julia Pérez Prieto (UV)**; A. López Buendía (INNCEINMAT), J. M. Catalá Civera (UPV). 01/01/2016 to 31/12/2018. 495180,5 €, **IP**.

3. CMST COST Action CM1403. From the Design of Photon-upconverting Nanomaterials to (Biomedical) Applications. European Union FP7. The European Upconversion Network: Coordinator: Hans Gorriz. 19/11/2014- 8/11/2018. 478880 €. **IP at UV: Julia Perez Prieto.**

4. Referencia: 804110. Chemistry and Interface Control of Novel 2DPnictogen Nanomaterials. Entidad financiadora: Unión Europea. Convocatoria: ERC-2018-STG. **Gonzalo Abellán Sáez.** Universitat de València. 01/11/2018-31/10/2023. 1.499.419 €. Investigadora.

5. CTQ2017-82711-P. Tailor-Made Photoactive Functional Nanomaterials. Ministerio de Ciencia, Innovación y Universidades. Proyectos de Excelencia I+D+i. **Julia Pérez Prieto.** Universitat de Valencia. 01/01/2018 to 31/12/2020. 159720 €. **IP**

6. PID2020-115710GB-I00. Advanced Functional Photoactive Nanomaterials: Fundamental Knowledge to Application. Ministerio de Ciencia e Innovación. Proyectos de I+D+I Pruebas de Concepto. **Julia Pérez Prieto.** Universitat de Valencia. 01/01/2021 to 31/12/2023. 193.600,00 €. **IP.**

C.4. Contracts, technological or transfer merits

1. 02_MCI_26_2015. Diseño Reactor microondas para la fabricación eficiente de nanopartículas de upconversion. Entities:UV/INNCEINNMAT. València International Campus of Excellence **Julia Pérez Prieto.** Universitat de Valencia. 24/04/2015 to: 31/12/2015. 10000 €. **IP.**

2. International Patent

Inventors: Pérez Prieto, J.; González Béjar, M.; Estebanez Bloem, N. L.; Fernández Lozano, J. F.; Enríquez Pérez, E.; López Buendía, A. M.; Urquiola Casas, M. Title: Materiales luminiscentes de upconversion y método de preparación de los mismos Application number: P201630886 First priority country: SPAIN Date of priority: 30/06/2016 (publication 04/01/2018,ES 2648639 A1/WO/2018/002405) International Application number PCT/ES2017/070474 Publication date: 30/06/2016 Date of priority: 30/06/2016. Priority countries: China, Hong Kong. Main institutions: Universitat de València / INNCEINNMAT S.L. /CSIC.