



Gerard Laguna Benet

Dades personals-contacte / Datos personales-contacto / Personal information-contact

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Gerard Laguna Benet

Titularitat: Professor associat / Profesor asociado / Adjunct lecturer

Àrea: Enginyeria i física / Ingeniería i física / Engineering and physics

Departament: Química, Física, Ciències Ambientals i del Sòl / Química, Física, Ciencias del Suelo / Chemistry, Physics, Environmental and Soil Sciences

Edifici: Escola Politècnica Superior / Escuela Politécnica Superior / Polytechnic Superior School
Campus de Cappont. Edifici CREA. Despatx 0.13-14 / Campus de Cappont. Edificio CREA. Despacho 0.13-14 / Campus of Cappont. CREA Building. C

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Formació acadèmica / Formación académica / Academic training

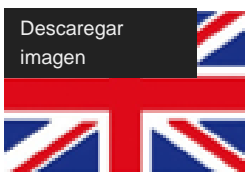
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- Grau en Enginyeria de l'Energia
- Màster en Industrials
- Doctorat en Enginyeria

Descargar imagen

- Grado en Ingeniería de la Energía
- Master en ingeniería industrial
- Doctorado en Ingeniería

- Degree in Energy Engineering
- Master in Industrial Engineering
- PhD in Engineering



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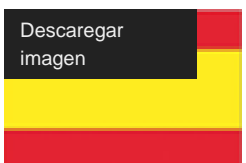
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Experiència professional / Experiencia profesional / Professional experience



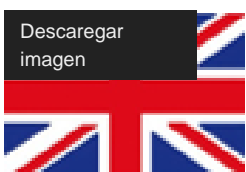
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Tècnic de laborator



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Técnico de Laboratorio



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Laboratory technician

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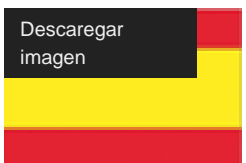
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Docència / Docencia / Teaching



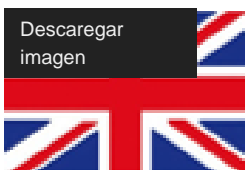
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- Tronc comú de les enginyeries industrials
- Grau en Arquitectura Tècnica i Edificació
- Grau en Enginyeria Mecànica
- Grau en Enginyeria de l'Energia i Sostenibilitat
 - Grau en Enginyeria Electrònica Industrial i Automàtica



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- Parte común de las ingenierías industriales
- Grado en Arquitectura Técnica y Edificación
- Grado en Ingeniería Mecánica
- Grado en Ingeniería de la Energía y Sostenibilidad
 - Grado en Ingeniería Electrónica Industrial y Automática



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- Common part of industrial engineering
- Degree in Technical Architecture and Building
- Degree in Mechanical Engineering
- Degree in Energy Engineering and Sustainability
 - Degree in Industrial Electronic and Automatic Engineering



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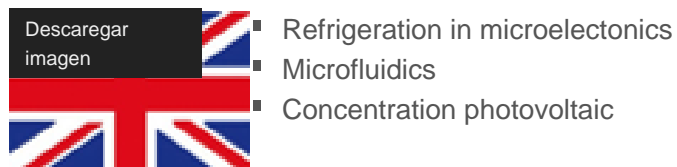
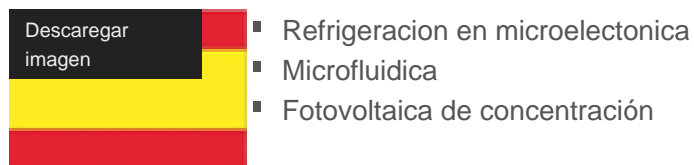
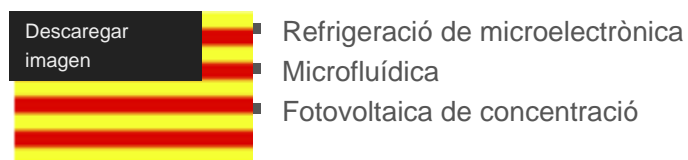
Gestió / Gestión / Management



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Recerca / Investigación / Research

Àmbit de recerca / Ambito de investigación / Research area



Activitats de recerca / Actividades de investigación / Research activities

Projectes:



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- Demostració experimental i viabilitat comercial d'un sistema universal i energèticament eficient de refredament. (AGAUR – Indústria del Coneixement)

- Smart Technologies for eneRgy Efficient Active cooling in Advanced Microelectronic Systems (STREAMS) (European Commission H2020)

Articles:

-Impact of the self-adaptive valve behavior on an array of microfluidic cells under unsteady and non-uniform heat load distributions <https://doi.org/10.36884/jafm.12.SI.29918> [<https://doi.org/10.36884/jafm.12.SI.29918>]

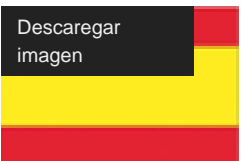
- Numerical parametric study of a hotspot-targeted microfluidic cooling array for microelectronics. <https://doi.org/10.1016/j.applthermaleng.2018.08.030> [<https://doi.org/10.1016/j.applthermaleng.2018.08.030>]

- Experimental and numerical study of micro-pin-fin heat sinks with variable density for increased temperature uniformity. <https://doi.org/10.1016/j.ijthermalsci.2018.06.019> [<https://doi.org/10.1016/j.ijthermalsci.2018.06.019>]

- Assessment of the impact of non-uniform illumination and temperature profiles on a dense array CPV receiver performance. <https://doi.org/10.1016/j.solener.2018.07.001> [<https://doi.org/10.1016/j.solener.2018.07.001>]

- Smoothing effect of the thermal interface material on the temperature distribution in a stepwise varying width microchannel cooling Device. <https://doi.org/10.1007/s00231-017-2045-0> [<https://doi.org/10.1007/s00231-017-2045-0>]

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Proyectos:

- Demostració experimental i viabilitat comercial d'un sistema universal i energèticament eficient de refredament. (AGAUR – Indústria del Coneixement)

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Projects:

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