

Research outputs

On the potential of microwave heating to convert waste into added-value chemicals and materials: a review

Dan, E., McCue, A., Dionisi, D. & Fernandez Martin, C. (Corresponding Author), 5 Feb 2025, (Accepted/In press) In: Philosophical Transactions of the Royal Society of London. Series A.

Innovative pathways in CO₂ conversion to chemicals and fuels: Emerging transfer hydrogenation versus traditional hydrogenation

Rouse, N. V., Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., 23 Jan 2025, (E-pub ahead of print) *Encyclopedia of Renewable Energy Engineering*. Elsevier

Scientific Committee Member for AMPERE25 International Conference

Fernandez Martin, C., 2025

The role of the activation heating source on the carbon capture performance of two new adsorbents produced from household-mixed-plastic waste

Dan, E., McCue, A., Dionisi, D. & Fernandez Martin, C. (Corresponding Author), 30 Nov 2024, In: Journal of CO₂ Utilization. 89, 13 p., 102950.

Paving the way to transfer hydrogenation of CO₂ with bio-derived glycerol over Ni supported zeolite catalysts

Rouse, N. V., Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I. (Corresponding Author), 25 Nov 2024, In: Applied Catalysis A: General. 687, 19 p., 119971.

Sustainable materials and greener processes for carbon capture by means of adsorption: the role of microwaves (Keynote)

Fernandez Martin, C. (Speaker), 21 Jul 2024.

Household mixed plastic-derived adsorbents for CO₂ capture: A feasibility study

Dan, E. U. (Speaker), Fernandez Martin, C., McCue, A. & Dionisi, D., 20 Jul 2024.

Isomerisation of glucose into fructose over basic zeolite catalysts

Muhammad, M. B. (Speaker), Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., 14 May 2024.

Mixed plastic waste: an untapped and sustainable carbon source for producing CO₂ adsorbents

Dan, E. U. (Speaker), McCue, A., Dionisi, D. & Fernandez Martin, C., 14 May 2024.

Sustainable materials and greener processes for carbon capture: the role of microwave heating: Invited Talk

Fernandez Martin, C. (Speaker), 14 May 2024.

Towards low-cost and sustainable activated carbon production: influence of microwave activation time on yield and CO₂ uptake of PET-derived adsorbents

Dan, E. U., McCue, A., Dionisi, D. & Fernandez Martin, C. (Corresponding Author), May 2024, In: Journal of CO₂ Utilization. 83, 13 p., 102807.

Household Mixed Plastic Waste Derived Adsorbents for CO₂ Capture: A Feasibility Study

Dan, E., McCue, A., Dionisi, D. & Fernandez Martin, C. (Corresponding Author), Mar 2024, In: Journal of Environmental Management. 355, 9 p., 120466.

Greener carbon capture using microwave heating for the development of cellulose-based adsorbents

Biti, S., McCue, A., Dionisi, D., Biscaya Semedo Pereira da Graca, I. & Fernandez Martin, C. (Corresponding Author), 15 Feb 2024, In: Fuel. 358, Part B, 11 p., 130246.

Activated-Carbon-Doped Non-Solvent-Induced Phase-Inversion Membranes: A Comprehensive Study on Synthesis, Characterisation, and Performance Evaluation

Mompó-Curell, R. (Corresponding Author), Biti, S., Iborra-Clar, A., Iborra-Clar, M. I., Garcia-Castello, E. M. & Fernández-Martín, C., 1 Feb 2024, In: Sustainability. 16, 3, 20 p., 1150.

Biomass-derived materials for carbon capture: a review

Dan, E., McCue, A. & Fernandez Martin, C. (Corresponding Author), 2024, *Encyclopedia of Renewable Energy Engineering*. Elsevier

Development of sustainable adsorbents for post combustion carbon capture using conventional and microwave heating
Biti, S. B., Fernandez Martin, C., McCue, A., Biscaya Semedo Pereira da Graca, I. & Dionisi, D., 20 Nov 2023, *Proceedings of AMPERE2023: 19th International Conference on Microwave and High Frequency Applications*. Zenodo, p. 84-85 2 p.

Influence of microwave activation time on CO₂ uptake capacity of PET-derived adsorbents

Dan, E. U., Fernandez Martin, C., McCue, A. & Dionisi, D., 20 Nov 2023, *Proceedings of AMPERE2023: 19th International Conference on Microwave and High Frequency Applications*. Zenodo, p. 34-35 2 p.

Effect of feed concentration and residence time on anaerobic fermentation in CSTR and SBR to produce short-chain organic acids

Simonetti, S., Collie-Duguid, E., Fernandez Martin, C., Louis, P., Pu, J., Smith, E. & Dionisi, D. (Corresponding Author), Oct 2023, In: Journal of Environmental Chemical Engineering. 11, 5, 12 p., 110461.

Cheap, Green, and Efficient: Microwave-assisted production of value-added carbons from 'real-world' mixed plastics for CO₂ capture

Dan, E. U., McCue, A., Dionisi, D. & Fernandez Martin, C., 29 Sept 2023.

Post-combustion CO₂ application of sustainable hybrid adsorbent derived from bio-conjugated amino acid on MCM-41
Ekpo, V., Fernandez Martin, C., Biscaya Semedo Pereira da Graca, I. & McCue, A., 29 Sept 2023.

Glucose isomerisation into fructose over alkali/alkaline-earth metal-supported NaY zeolites

Muhammad, M. B. (Speaker), Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., 4 Sept 2023.

Transfer hydrogenation of carbon dioxide with bio-derived glycerol over zeolite-based catalysts

Rouse, N. V. (Speaker), Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., Sept 2023.

Melamine-Doped PET-derived Adsorbents for Post-Combustion CO₂ Capture

Dan, E. U. (Speaker), McCue, A., Dionisi, D. & Fernandez Martin, C., 21 Jul 2023.

Feasibility of amino acid functionalized mesoporous silica synthesis and application for post-combustion CO₂ capture
Ekpo, V. F. (Speaker), McCue, A., Biscaya Semedo Pereira da Graca, I. & Fernandez Martin, C., 17 May 2023.

Photoreduction of CO₂ to upgraded chemical products over zeolite-based catalysts

Muhammad, M. B. (Speaker), Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., 17 May 2023.

CO₂ catalytic conversion into fuels and fuel-precursors using biomass-derived H-donors

Rouse, N. (Speaker), Fernandez Martin, C., McCue, A. & Biscaya Semedo Pereira da Graca, I., 15 May 2023.

Melamine-Doped PET-Derived Adsorbents for Post-combustion CO₂ Capture

Dan, E. U. (Speaker), McCue, A., Dionisi, D. & Fernandez Martin, C., 15 May 2023.

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Moliner, C., Focacci, S., Antonucci, B., Moreno , A., Biti, S., Hamzah, F., Martinez-Felipe, A., Arato, E. (Corresponding Author) & Fernandez Martin, C., 2 Dec 2022, In: Energies. 15, 23, 12 p., 9160.

Microwave pre-treatment of model food waste to produce short chain organic acids and ethanol via anaerobic fermentation
Simonetti, S., Fernandez Martin, C. & Dionisi, D. (Corresponding Author), 12 Jun 2022, In: Processes. 10, 6, 14 p., 1176.

Microwave Research at the School of Engineering University of Aberdeen
Fernandez Martin, C. (Corresponding Author), 26 Apr 2022, Ampere Newsletter: Trends in RF and Microwave Heating, 110, p. 4-5 2 p.

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Effects of the heating source on the regeneration performance of different adsorbents under post-combustion carbon capture cyclic operations: A comparative analysis
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Cellulose-based activated carbon for post-combustion CO₂ Capture
Biti, S. B. (Speaker), Dionisi, D., Biscaya Semedo Pereira da Graca, I. & Fernandez Martin, C., 21 Oct 2021.

Anaerobic fermentation for the production of short chain organic acids: product concentration, yield and productivity in batch experiments at high feed concentration
Simonetti, S., Fernandez Martin, C. & Dionisi, D. (Corresponding Author), Oct 2021, In: Journal of Environmental Chemical Engineering. 9, 5, 106311.

Acidogenic fermentation of model food waste for the production of added-value chemicals: effect of substrate concentration and residence time
Simonetti, S., Fernandez Martin, C. & Dionisi, D., 28 Jun 2021.

Molecular Dynamics Simulation of the Interactions between Carbon Dioxide and a Natural-Based Carbonaceous Microporous Material
Moliner, C., Antonucci, B., Focacci, S., Heap, J. M., Martel, A. M., Hamzah, F., Martin, C. F. & Martinez-Felipe, A., 15 Jun 2021, In: Chemical Engineering Transactions. 86, p. 1111-1116 6 p.

Effect of substrate concentration and retention time on the anaerobic digestion of food waste for the production of valuable chemicals
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Sustainable adsorbents from food-based waste

Sky East Ltd. research collaboration & Fernandez Martin, C., 15 Feb 2021

Product Concentration, Yield and Productivity in Anaerobic Digestion to Produce Short Chain Organic Acids: A Critical Analysis of Literature Data

Simonetti, S., Saptoyo, A., Fernandez Martin, C. & Dionisi, D. (Corresponding Author), 25 Nov 2020, In: Processes. 8, 12, 17 p., 1538.

Modelling & characterisation of sustainable adsorbents for CO₂ capture

Biti, S. B., Yassin, M. M. & Fernandez Martin, C., 20 Nov 2020.

Effect of substrate concentration and retention time on the anaerobic fermentation of food waste

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Feasibility of microwave-assisted pre-treatment of lignocellulosic feedstocks to produce added-value chemicals and materials

Biti, S. B. (Speaker), Dionisi, D., Louis, P. & Fernandez Martin, C., 16 May 2020.

Dielectric properties assessment during dynamic microwave-assisted carbon capture cyclic operations

Fernandez Martin, C. (Speaker), Baños, B., Yassin, M. M. & Catala-Civera, J. M., 9 Sept 2019.

Microwave-assisted regeneration of solid adsorbents for CO₂ capture in post-combustion processes

Yassin, M. M. (Speaker), Anderson, J., Afzal, W. & Fernandez Martin, C., 9 Sept 2019.

Anaerobic digestion of food waste for the production of chemicals

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Anaerobic digestion of model food waste at high and low concentration for the production of chemicals

Dionisi, D., Fernandez Martin, C. & Simonetti, S., 2019.

Microwave swing regeneration of aqueous monoethanolamine for post-combustion CO₂ capture

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Dynamic assessment of dielectric properties of adsorbents during microwave-assisted carbon capture cyclic operations

Fernandez Martin, C., Baños, B. & Catala-Civera, J. M., 2017, *Proceedings: 6th ETP Annual Conference 2017*. Edinburgh, United Kingdom.

Wet impregnation of a commercial low cost silica using DETA for a fast post-combustion CO₂ capture process

Martin, C. F., Sweatman, M. B., Brandani, S. & Fan, X. (Corresponding Author), 1 Dec 2016, In: Applied Energy. 183, p. 1705-1721 17 p.

Intensification of CO₂ capture processes using microwave heating

Fernandez Martin, C., Sweatman, M., Brandani, S. & Fan, X. (Collaborator), 26 Sept 2016, *3rd Global Congress on Microwave Energy Applications: Book of Abstracts*. Fernández , J. F. & Cabrera, J. M. (eds.). Spain: Polytechnic University of Cartagena

Recycling of household plastics. A report on recycling technologies for MRO's residues
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CO₂ adsorption using TiO₂ composite polymeric membranes: A kinetic study
Hafeez, S., Fan, X., Hussain, A. & Martin, C. F., 1 Sept 2015, In: Journal of Environmental Sciences. 35, p. 163-171 9 p.

Dynamic cyclic performance of phenol-formaldehyde resin derived carbons for pre-combustion CO₂ capture: An experimental study
Garcia, S., F. Martin, C., Pis, J. J., Rubiera, F. & Pevida, C., 2013, In: Energy Procedia. 37, p. 127-133 7 p., GHGT-11.

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Fernandez Martin, C., Garcia, S., Pis, J. J., Rubiera, F. & Pevida, C., 2012, *Proceedings: International Conference on Chemical Engineering ANQUE-ICCE*. Seville, Spain

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Garcia, S., Gil, M. V., Martin, C. F., Pis, J. J., Rubiera, F. & Pevida, C., 1 Jul 2011, In: Chemical Engineering Journal. 171, 2, p. 549-556 8 p.

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Plaza, M. G., Pevida, C., Martin, C. F., Fermoso, J., Pis, J. J. & Rubiera, F., 29 Jan 2010, In: Separation and Purification Technology. 71, 1, p. 102-106 5 p.

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Fernandez Martin, C., Martinez, M., Centeno, T. A., Pevida, C., Pis, J. J. & Rubiera, F., 2010, *Proceedings: X Reunión del Grupo Español del Carbón (GEC)*. Gerona, Spain, p. 255-256

Regeneration strategies of carbon capture adsorbents in cyclic operation

Garcia, S., Junco, S., Plaza, M. G., Fernandez Martin, C., Pevida, C. & Rubiera, F., 2010, *Proceedings: 8th European Conference on Coal Research and Its Applications*. Leeds, United Kingdom

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García, S., Junco, S., Plaza, M. G., Fernandez Martin, C., Pevida, C., Rubiera, F. & Pis, J. J., 2010, *Proceedings: X Reunión del Grupo Español del Carbón (GEC)*. Gerona, Spain, p. 249-250

Development of low-cost biomass-based adsorbents for postcombustion CO₂ capture

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Plaza, M. G., Pevida, C., Arias, B., Casal, M. D., Martin, C. F., Fermoso, J., Rubiera, F. & Pis, J. J., Jun 2009, In: Journal of Environmental Engineering. 135, 6, p. 426-432 7 p.

Ammonia-modified biomass-based carbons as CO₂ Adsorbents

G. Plaza, M., Pevida, C., Casal, M. D., Fernandez Martin, C., Fermoso, J., Rubiera, F. & Pis, J. J., 2009, *Proceedings: Carbon'09. The Annual World Conference on Carbon*. Biarritz, p. 356-359 4 p.

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G. Plaza, M., Pevida, C., Fernandez Martin, C., Casal, M. D., Fermoso, J., Rubiera, F. & Pis, J. J., 2009, *Proceedings of the Fourth International Conference on Clean Coal Technology*. Dresden, 9 p.

Flue-gas CO₂ capture on activated carbons produced from biomass wastes

Plaza, M. G., Fernandez Martin, C., Fermoso, J., Pevida, C., Rubiera, F., Centeno, T. A. & Pis, J. J., 2009, *Proceedings: RECIMAT 09. Conferencia sobre Reciclado de Materiales y Eco-Ene..*

Microporous adsorbents from phenol formaldehyde resins for precombustion CO₂ capture

Fernandez Martin, C., Pevida, C., Casal, M. D., Plaza, M. G., Fermoso, J., Rubiera, F. & Pis, J. J., 2009, *Proceedings: Carbon'09. The Annual World Conference on Carbon*. Biarritz, 6 p.

Microporous resin adsorbents for pre-combustion CO₂ capture

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Pressurised gasification of coal and biomass for the production of H₂-rich gas

Fermoso, J., Arias, B., G. Plaza, M., Pevida, C., Casal, M. D., Fernandez Martin, C., Rubiera, F. & Pis, J. J., 2009, *Proceedings of the Fourth International Conference on Clean Coal Technology*. Dresden, 9 p.

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Pevida, C., Centeno, T. A., Rubiera, F., Tennison, S., Kozynchenko, O., Plaza, M. G., Fernandez Martin, C., Fermoso, J., Stoeckli, F. & Pis, J. J., 2009, *Proceedings: Carbon'09. The Annual World Conference on Carbon*. Biarritz, France

Production of carbon adsorbents for pre-combustion CO₂ capture

Rubiera, F., Pevida, C., Plaza, M. G., Fernandez Martin, C., Casal, M. D., Arias, B., Fermoso, J. & Pis, J. J., 2008, *Proceedings: International Symposium about Capture and Storage of CO₂*. Seville, Spain

Activities**Journal of Analytical and Applied Pyrolysis (Journal)**

Fernandez Martin, C. (Peer Review)

20 Feb 2025

Philosophical Transactions of the Royal Society of London. Series A (Journal)

Fernandez Martin, C. (Peer Review)

Nov 2024

20th International Conference on Microwave and High-Frequency Application, AMPERE 2025 (Event)

Fernandez Martin, C. (Member of editorial board)

1 Oct 2024 → 31 Dec 2025

"Evaluation and integration of optimization automatisms in the microwave devulcanization process for the recovery of rubber from end-of-life tires"

Fernandez Martin, C. (External Examiner)

Jul 2024 → ...

The Royal Society Scientific Meeting on Microwave Science in Sustainability (Event)

Fernandez Martin, C. (Chair)

14 May 2024

Carbon (Journal)

Fernandez Martin, C. (Peer Review)

25 Mar 2024

European Journal of Microwave Energy (Journal)

Fernandez Martin, C. (Peer Review)

29 Jan 2024

UoA Interdisciplinary Challenge Open Session

Dan, E. (Speaker), Fernandez Martin, C. (Participant), McCue, A. (Participant) & Dionisi, D. (Participant)

29 Sept 2023

UoA Interdisciplinary Challenge Open Session

Ekpo, V. F. (Speaker), Fernandez Martin, C. (Participant), Biscaya Semedo Pereira da Graca, I. (Participant) & McCue, A. (Participant)

29 Sept 2023

19th International Conference on Microwave and High-Frequency Application (Event)

Fernandez Martin, C. (Peer reviewer)

Sept 2023

Transfer hydrogenation of carbon dioxide with bio-derived glycerol over zeolite-based catalysts

Rouse, N. V. (Speaker), Fernandez Martin, C. (Author), McCue, A. (Author) & Biscaya Semedo Pereira da Graca, I. (Author)

Sept 2023

Aythami Perez-Remedios

Fernandez Martin, C. (Host)

13 Mar 2023 → 6 Sept 2023

Association for Microwave Power in Europe for Research and Education (Ampere) (External organisation)
Fernandez Martin, C. (Member)
Dec 2021 → ...

Energies (Journal)
Fernandez Martin, C. (Peer Review)
21 Aug 2021 → 5 Jul 2022

Processes (Journal)
Fernandez Martin, C. (Peer Review)
Oct 2020 → Jul 2021

NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL) (External organisation)
Fernandez Martin, C. (External Examiner)
Aug 2020

Processes (Journal)
Fernandez Martin, C. (Guest editor)
28 Feb 2020 → 29 May 2022

CCS Deputy Champion for the University of Aberdeen.
Fernandez Martin, C. (Contributor)
2020 → Dec 2027

Environment and Biodiversity (Organisational unit)
Fernandez Martin, C. (Member)
2020 → ...

Centre for Energy Transition (Organisational unit)
Fernandez Martin, C. (Member)
2019 → ...

Supervision of Rutherford Fellow: Dr Ghulam Hussain
Fernandez Martin, C. (Supervisor)
Jun 2018 → Mar 2019

Supervision of Rutherford Fellow: Dr Heriberto Diaz-Velazquez
Fernandez Martin, C. (Supervisor)
Jun 2018 → Mar 2019

Supervision of Rutherford Fellow: Dr Yu Liu
Fernandez Martin, C. (Supervisor)
Jun 2018 → Mar 2019

Chemical Engineering Journal (Journal)
Fernandez Martin, C. (Peer Review)
May 2018

Supervision of Rutherford Fellow: Dr Osiry Hernandez-Silva
Fernandez Martin, C. (Supervisor)
May 2018 → Feb 2019

Polytechnic University of Valencia

Fernandez Martin, C. (Visiting Lecturer) & Catala-Civera, J. M. (Collaborator)
1 May 2017 → 15 Jul 2017

PhD Examiner (Viva) for the thesis titled: Advances in the use of aerobic sequencing batch reactors for biological wastewater treatment

Fernandez Martin, C. (Examiner)
11 Dec 2016

PhD Examiner (Viva) for the thesis titled: Carbon capture and storage optimisation in solid oxides: understanding surface-fluid interactions

Fernandez Martin, C. (Examiner)
14 Nov 2016

The Promising Application of Microwaves in Carbon Capture and Storage

Fernandez Martin, C. (Author)
10 Oct 2016

Energies (Journal)

Fernandez Martin, C. (Peer Review)
2016 → 2018

Chemical Engineering and Materials Research Group (Organisational unit)

Fernandez Martin, C. (Member)
1 Jan 2015 → Feb 2019

UK Carbon Capture and Storage Research Centre (UKCCSRC) (External organisation)

Fernandez Martin, C. (Member)
1 Jan 2015

Scottish Carbon Capture and Storage (SCCS) (External organisation)

Fernandez Martin, C. (Member)
Jan 2013

University of South Carolina

Fernandez Martin, C. (Visiting Researcher), Ebner, A. (Collaborator) & Ritter, J. (Collaborator)
1 Sept 2010 → 23 Dec 2010

University of Liverpool

Fernandez Martin, C. (Visiting Researcher) & Cooper, A. I. (Collaborator)
1 Jun 2009 → 30 Jul 2009