

|  |   |                  |                           |                            |                       |               |             |                          |
|--|---|------------------|---------------------------|----------------------------|-----------------------|---------------|-------------|--------------------------|
| 1. Nombre del académico  | <b>MARIA EUGENIA GONZALEZ QUIJON</b>  |                  |                           |                            |                       |               |             |                          |
| Carácter del vínculo (claustro, colaborador o visitante)   | Claustro  |                  |                           |                            |                       |               |             |                          |
| Título profesional, institución, país  | Ingeniero Ambiental, Universidad de La Frontera, Chile.   |                  |                           |                            |                       |               |             |                          |
| Grado académico máximo (especificar área disciplinar), institución, año de graduación y país <sup>1</sup>              | Doctor en Ciencias de Recursos Naturales, Universidad de La Frontera, 2013, Chile.  |                  |                           |                            |                       |               |             |                          |
| Línea(s) de investigación  | Valorización de residuos y bioenergía.<br>Tratamientos termoquímicos y materiales.<br>Bioprocesos Ambientales                         |                  |                           |                            |                       |               |             |                          |
| Tesis de <u>magíster</u> dirigidas en los últimos 10 años (finalizadas)  | <b>Como guía de tesis</b>   |                  |                           |                            |                       |               |             |                          |
|  | <b>Año</b>  | <b>Autor</b>     | <b>Título de la Tesis</b> | <b>Nombre del programa</b> | <b>Institución</b>    |               |             |                          |
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| Tesis de <u>doctorado</u> dirigidas en los últimos 10 años (finalizadas) <sup>2</sup>                                  | <b>Como co-guía de tesis</b>  |                  |                           |                            |                       |               |             |                          |
|  | <b>Año</b>  | <b>Autor</b>     | <b>Título de la Tesis</b> | <b>Nombre del programa</b> | <b>Institución</b>    |               |             |                          |
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|  |   |                  |                           |                            |                       |               |             |                          |
| <b>PRODUCTIVIDAD CIENTÍFICA EN LOS ÚLTIMOS 10 AÑOS</b>   |   |                  |                           |                            |                       |               |             |                          |
| Listado de publicaciones. En caso de publicaciones con más de un autor, indicar en <b>negrita el autor principal</b> . | <b>Publicaciones indexadas (identificar y agrupar por tipo de indexación: WoS/ISI, SCIELO, LATINDEX, u otras –indicando cuales-):</b> |                  |                           |                            |                       |               |             |                          |
|  | <b>N°</b>   | <b>Autor(es)</b> | <b>Año</b>                | <b>Título del artículo</b> | <b>Nombre revista</b> | <b>Estado</b> | <b>ISSN</b> | <b>Factor de impacto</b> |
|  |   |                  |                           |                            |                       |               |             |                          |
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<sup>1</sup> Si se estima necesario, indicar todos los grados académicos obtenidos o equivalentes.

<sup>2</sup> Marcar con negrilla las tesis dirigidas en el mismo programa

|  |   |      |   |   |           |           |       |
|--|---|------|---|---|-----------|-----------|-------|
|  | S.Meier, F.Moore, N.Khan, <b>M.Gonzalez</b> , J.Medina, J.Cumming, A.Morales, P.Duran, A.Seguel, H.Aponte   | 2021 | Effect of poultry manure compost and arbuscular mycorrhizal fungi on copper immobilization and soil microbial communities in a copper-contaminated soil using the metallophyte <i>Oenothera lamarckiana</i> | Journal of Soil Science and Plant Nutrition | Publicado | 0718-9516 | 3.771 |
|  | María del Carmen Rojas, María Luz Nieva Lobos, María Laura Para, María Eugenia González Quijón, Osvaldo Cámara, Daniel Barraco, Elizabeth Laura Moyano, Guillermina Leticia Luque | 2021 | Activated carbon from pyrolysis of peanut shells as cathode for lithium-sulfur batteries  | <u>Biomass and Bioenergy</u>                | Publicado | 0961-9534 | 3.351 |
|  | C.Roman, M.Cea, M.Paneque, M.González   | 2020 | A comparison of two methodological approaches for determining castor bean suitability in Chile  | Agronomy                                    | Publicado | 2073-4395 |       |
|  | Mariana P. Silva, María L. Nieva Lobos, Roxana V. Piloni, Diego Dusso, María E. González Quijón, Ana L. Scopel & <b>Elizabeth L. Moyano</b>                                       | 2020 | Pyrolytic biochars from sunflower seed shells, peanut shells and Spirulina algae: their potential as soil amendment and natural growth regulators   | SN Applied Sciences                         | Publicado | 2523-3971 |       |
|  | Roman-Figueroa, C., Cea, M., Paneque, M., <b>Gonzalez, ME.</b>  | 2020 | Oil Content and Fatty Acid Composition in Castor Bean Naturalized Accessions under Mediterranean Conditions in Chile  | Agronomy-Basel                              | Publicada | 2073-4395 | 3.417 |
|  | <b>G.Briceño</b> , M.Levio, M.Gonzalez, J.Saez, G.Palma, H.Schalchli, M.Diez  | 2020 | Performance of a continuous stirred tank bioreactor employing an immobilized actinobacteria mixed culture for the removal of organophosphorus pesticides  | 3 Biotech                                   | Publicado | 2190-5738 | 3.203 |

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|--|---|------|--|--|------------|-----------|-------|
|  | S.Meier, F.Moore, A.Morales, M.Gonzalez, A.Seguel, C.Meriño, O.Rubilar, J.Cumming, <b>H.Aponte</b> , D.Alarcon, J.Mejias                      | 2020 | Synthesis of calcium borate nanoparticles and its use as a potential foliar fertilizer in lettuce (lactuca sativa) and zucchini (cucurbita pepo)   | Plant Physiology And Biochemistry            | Publica do | 0981-9428 | 4.143 |
|  | Medina, J., Monreal, CM., Orellana, L., Calabi-Floody, M., Gonzalez, ME., Meier, S., Borie, F., Cornejo, P.                                   | 2020 | Influence of saprophytic fungi and inorganic additives on enzyme activities and chemical properties of the biodegradation process of wheat straw for the production of organo-mineral amendments | Journal of Environmental Management          | Publica do | 0301-4797 | 5.647 |
|  | <b>M.Cea</b> , M.Gonzalez, R.Navia, M.Abarzua   | 2019 | Enzymatic esterification of oleic acid by candida rugosa lipase immobilized onto biochar   | Journal Of Environmental Management, Vol.242 | Publica do | 0301-4797 | 5.647 |
|  | <b>R.Navia</b> , <b>R.Hunter</b> , <b>M.Gonzalez</b> , <b>P.Hidalgo</b> , <b>G.Coronado</b>   | 2019 | Synthesis of carbon nanotubes using biochar as precursor material under microwave irradiation  | Journal Of Environmental Management          | Publica do | 0301-4797 | 5.647 |
|  | <b>A.Seguel</b> , F.Meier, F.Moore, M.Gonzalez, J.Medina, N.Khan, J.Cumming, M.Sanhueza, J.Mejias, A.Morales, J.Hirzel                        | 2019 | soil microbial communities in a metal-contaminated soil using a metallophyte and two agricultural plants   | Environmental Geochemistry And Health        | Publica do | 1573-2983 | 3.472 |
|  | R.Hunter, P.Hidalgo, R.Navia, <b>M.Gonzalez</b> , A.Echeverria  | 2019 | Development of novel bio-based epoxides from microalgae nannochloropsis gaditana lipids  | Composites Part B                            | Publica do | 1359-8368 | 7.635 |
|  | M.Gonzalez, E.Acuña, L.Romero-Hermoso, Z.Domínguez, G.Bárcenas-Pazos, M.Pineda-López, R.Teixeira, <b>R.Musle</b> , <b>L.Sánchez-Velásquez</b> | 2018 | Growing up at different altitudes: changes in energy content of the abies religiosa wood   | Bioenergy Research                           | Publica do | 1939-1234 | 2.500 |
|  | F.Moore, M.Gonzalez, N.Khan, G.Curaqueo, M.Sanchez-Monedero,  | 2018 | Copper immobilization by biochar and   | Science Of The Total Environment             | Publica do | 0048-9697 | 5.589 |

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|--|--|------|--|--|-----------|-----------|-------|
|  | J.Rilling, E.Morales, M.Panichini, A.Mutis, M.Jorquera, J.Mejias, J.Hirzel, <b>S.Meier</b>                             |      | microbial community abundance in metal-contaminated soils?   |  |           |           |       |
|  | M.Gonzalez, C.Monreal, D.Chabot, D.Meier, J.Medina, E.Morales, R.Parillo, F.Borie, P.Cornejo                           | 2017 | Microscopic and spectroscopic characterization of humic substances from a compost amended copper contaminated soil: main features and their potential effects on Cu immobilization | Environmental science and pollution research | Publicado | 0944-1344 |       |
|  | M.Gonzalez, L.Romero, A.Gonzalez, P.Hidalgo, S.Meier, R.Navia, M.Cea   | 2017 | Effects of pyrolysis conditions on physicochemical properties of oat hull derived biochar  | Bioresources                                 | Publicado | 1930-2126 |       |
|  | M.Gonzalez, G.Curaqueo, N.Khan, N.Bolan, M.Cea, <b>S.Meier</b> , P.Cornejo, Y.Sik Ok, F.Borie                          | 2017 | Chicken manure-derived biochar reduce the bioavailability of copper in a contaminated soil. Journal of soil and sediments.   | Journal Of Soil And Sediments                | Publicado | 1439-0108 | 2.627 |
|  | M.Gonzalez, G.Curaqueo, N.Khan, N.Bolan, J.Rilling, C.Vidal, N.Fernández, J.Acuña, <b>S.Meier</b> , P.Cornejo, F.Borie | 2017 | Effects of biochar on copper immobilization and soil microbial communities in a metal-contaminated soil  | Journal Of Soil And Sediments                | Publicado | 1439-0108 | 2.627 |
|  | <b>M.Gonzalez</b> , M.Cea, D.Reyes, L.Romero-Hermoso, P.Hidalgo, S.Meier, N.Benito, R.Navia                            | 2017 | Functionalization of biochar derived from lignocellulosic biomass using microwave assistance for catalytic application in biodiesel production                                     | Energy Conversion And Management             | Publicado | 0196-8904 | 6.377 |
|  | <b>M.E. González</b> , M.Cea, J. Medina, A. González, M.C. Díez, P. Cartes, C. Monreal, R. Navia                       | 2015 | Evaluation of biodegradable polymers as encapsulating agents for the development of a urea controlled-release fertilizer using biochar as support material                         | Science Of The Total Environment             | Publicado | 0048-9697 | 4.610 |
|  | <b>M.Cea</b> , M.Gonzalez, N.Sangaletti,   | 2013 | Biochar derived from agricultural  | Journal Of Biobased                          | Publicado | 1556-6560 | 0.586 |

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|--|---|------|--|---|-----------|-----------|-------|
|  | A.Gonzalez, C.Toro, M.Diez, N.Moreno, X.Querol, R.Navia             |      | and forestry residual biomass: characterization and potential application for enzymes immobilization | Materials And Bioenergy                     |           |           |       |
|  | R.Navia, A.Gonzalez, C.Toro, M.Cea, N.Sepulveda, M.Diez, M.Gonzalez | 2012 | Biochar as a renewable matrix for the development of novel added value bioproducts.                  | Journal Of Biobased Materials And Bioenergy | Publicado | 1556-6560 | 0.826 |

**Libros y capítulos de libro (agrupar por tipo de publicación):**

| N° | Autor(es) | Año | Título del capítulo y/o libro | Lugar | Editorial | Estado |
|----|-----------|-----|-------------------------------|-------|-----------|--------|
|    |           |     |                               |       |           |        |
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**Otras publicaciones (por ejemplo, revistas con referato, obras u otras –indicando cuales-, agrupar por tipo de publicación):**

| N° | Autor(es) | Año | Título de la publicación | Lugar | Editorial | Estado | Otro aspecto pertinente |
|----|-----------|-----|--------------------------|-------|-----------|--------|-------------------------|
| -  | -         | -   | -                        | -     | -         | -      | -                       |

**Patentes:**

| N° | Inventor(es) | Nombre patente | Fecha de solicitud | Fecha de publicación | N° de registro | Estado |
|----|--------------|----------------|--------------------|----------------------|----------------|--------|
| -  | -            | -              | -                  | -                    | -              | -      |

**Listado de proyectos de investigación<sup>3</sup> en los últimos 10 años**

| Título  | Fuente de financiamiento              | Año de adjudicación | Período de ejecución | Rol en el proyecto (investigador responsable/director, co-investigador, etc.) |
|---|---------------------------------------|---------------------|----------------------|---|
| Modified bitumen with waste hazelnut-shell pyrolysed to improve its rheological and ageing properties: an additive to extend the lifetime of roads. | FONDECYT                              | 2023                | 2023-2027            | Co-Investigador   |
| Eco-friendly active packaging based on polyhydroxybutyrate-biochar-clay loaded with essential oils to extend the shelf life of perishable foods.    | FONDECYT                              | 2022                | 2022-2025            | Investigador patrocinante   |
| Does phosphorus composition determine the structure and functionality of phosphorus-cycling bacterial communities in sediments of the               | PROYECTOS DE INVESTIGACION ASOCIATIVA | 2022                | 2022-2024            | Co-Investigador   |

<sup>3</sup> Se consideran proyectos adjudicados y/o en ejecución en el período solicitado.

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| eutrophic villarrica lake, southern chile?   |  |      |           |                        |
| Controlled-release of nitrogen and phosphorus in a biochar-based smart fertilizer: a novel holistic approach to sustainable crop production on acid soils            | FONDECYT   | 2021 | 2021-2025 | Co-Investigador        |
| International network of collaboration for research in biofuels and high-added- value products from agro-industrial residual biomass.                                | Proyectos internacionales REDES 190117           | 2020 | 2020-2021 | Co- investigador       |
| Racemizacion del acido aspartico en la dentina de terceros molares para la estimacion de edad de individuos provenientes de temuco (chile) y cordoba (argentina)     | DIUFRO   | 2021 | 2021-2023 | Co-Investigador        |
| Eco-friendly active packaging based on polyhydroxybutyrate-biochar-clay loaded with essential oils to extend the shelf life of perishable foods.                     | Postdoctorado interno Universidad de La Frontera | 2021 | 2021-2023 | Patrocinante           |
| Controlled-release of nitrogen and phosphorus in a biochar-based smart fertilizer: A novel holistic approach to sustainable crop production on acid soils            | FONDECYT   | 2021 |           | Co-Investigador        |
| Dientes permanentes y deciduos como biomarcadores cronológicos para la detección y cuantificación ambiental de metales pesados en individuos de la Comuna de Renaico | DIUFRO   | 2020 | 2020-2021 | Primer Co-Investigador |
| Rheo+: Evaluación del Biochar derivado de la biomasa residual de la cáscara de avena como aditivo para mejorar las propiedades de los cementos asfálticos            | DIUFRO   | 2020 | 2020-2021 | Primer Co-Investigador |

|  |          |      |           |                          |
|--|----------|------|-----------|--------------------------|
| Designing a continuous process for remediation of water contaminated with chlorinated compounds using iron oxide-hydrochar composite   | FONDECYT | 2020 | 2020-2023 | Co-Investigador          |
| Racemización del ácido aspártico en la dentina de terceros molares para la estimación de edad de individuos provenientes de Temuco (chile) y córdoba (argentina)                           | DIUFRO   | 2020 | 2020-2023 | Co-Investigador          |
| Valorización energética de aceites de pescado de bajo valor agregado, a través de la producción de biodiesel con biocatalizadores obtenidos localmente.                                    | FONDEF   | 2019 | 2019-2020 | Co-Investigador          |
| Synthesize carbon-based nanomaterials through hydrothermal carbonization of agro-industrial wastes for the development of selective electrochemical sensor for detection of tetracyclines. | FONDECYT | 2018 | 2018-2021 | Investigador Responsable |
| Desarrollo de catalizadores heterogéneos en base a biocarbon derivado de residuos agroforestales con características magnéticas para elaboración de biodiesel de segunda generación        | DIUFRO   | 2016 | 2016-2018 | Segundo Co-Investigador  |
| Microwave assisted microbial oils conversion into biodiesel using functionalized biochar as solid catalyst   | FONDECYT | 2015 | 2015-2018 | Co-Investigador          |
| Desarrollo de un catalizador heterogéneo sólido ácido en base a biocarbon proveniente de residuos agroforestales, para la producción de biodiesel a partir de aceites residuales.          | FONDEF   | 2015 | 2015-2015 | Director General         |
| Producción de un biofertilizante en base a   | FONDEF   | 2015 | 2015-2015 | Director General         |

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|--|---|----------|------|-----------|--------------------------|
|  | biocarbon proveniente de pirolisis de residuos agro-industriales.   |          |      |           |                          |
|  | “Desarrollo de un catalizador a través de la activación y funcionalización de biocarbón para la producción de biodiesel de alta calidad”. | FONDECYT | 2014 | 2014-2016 | Investigador Responsable |