

Personal data

Name Peggy GUNKEL-GRILLON
 Born January 7th 1972 in Mulhouse, France
 Nationality French

Education

2015 Ability to conduct researches, University of New-Caledonia, Nouméa, New-Caledonia
 2001 PhD in chemistry, University of Haute-Alsace, Mulhouse, France

Current Position

Assistant professor at the University of New-Caledonia
 Head of ISEA (Institut des Sciences Exactes et Appliquées, EA 7484, <https://isea.unc.nc/>)
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Previous academic positions

2003-2007 Temporary teacher and researcher at the University of Geneva, Analytical and Biophysical Environmental Chemistry Group (CABE) <http://www.unige.ch/cabe/>
 2001-2003 Temporary teacher and researcher at the University of Haute-Alsace, Mulhouse, France, Gestion des Risques et Environnement laboratory (GRE) <http://www.gre.uha.fr/>

Current teaching activities

Courses, TD and TP on analytical chemistry, inorganic chemistry, aqueous chemistry and electrochemistry and on atomistic

Current research activities

Key words Environmental chemistry, analytical chemistry, metal speciation, and electrochemistry
My research Metallic elements are naturally present in our environment, but their biogeochemical cycles are disturbed by human activities. Their high reactivity is responsible for the great diversity of chemical forms they may be under. Their mobility and toxicity are closely related to their chemical form. In order to assess their risk of transfer to the abiotic or biotic compartments of the environment, it is essential both to determine the chemical forms under which they are found and to identify the associated environmental factors. My work then aims to meet the needs of knowledge on the behavior of metals for a modern society concerned with sustainable development.

Grants support since 2008

Sponsor ANR-AAPG2019-PRCCES35 Santé et Environnement
 Role Collaborator (Principal investigator : Dr Cyrille Goarant)
 Project period 2020-2023
 Title ANR Spiral : « Soil, rainfall and Leptospirosis»
<http://www.institutpasteur.nc/spiral/>
 Total costs € 416, 500

Sponsor CNRT Nickel and its environment research Grant
 Role Investigator
 Project period 2019-2021
 Title « Freshwater quality and effluent's threshold values for ultramafic catchment basin" <https://cnrt.nc/quavar/>
 Total costs € 209, 000

Sponsor	CNRT Nickel and its environment research grant, financial supplement to the QUAVAR project provided by NIPERA (Nickel Institute)
Role	Investigator
Project period	2019-2021
Title	« Validation of nickel bioavailability models for New-Caledonia »
Total costs	€ 142, 000
Sponsor	ADEME research Grant
Role	Collaborator (Principal investigator: Dc Audrey Léopold)
Project period	2019-2021
Title	« Valorization of organic waste products for sustainable agriculture in New Caledonia »
Total costs	€ 250, 000
Sponsor	CNRT Nickel and its environment research grant
Role	Collaborator (Investigator: Dc Farid Juillot-IRD)
Dates	2019-2022
	Intitulé ChroNick : « Mechanisms for mobilizing chromium and nickel from soils to water resources in New Caledonia » https://cnrt.nc/chronick/
Total costs	€ 363, 000
Sponsor	PIURN research Grant
Role	Co-investigator (Principal investigator: Pr Francis Mani)
Project period	2018-2020
Title	« Air Pollution in Pacific Island cities: PM2.5 measurements, its elemental composition and bio-monitoring
Total costs	€ 25, 000
Sponsor	CNRT Nickel and its environment.
Role	Co-investigator (Principal investigator: Dr Agnès Feurtet-Mazel)
Project period	2015-2018
Title	« Dispersion des Métaux de la Mine au Lagon (DMML)» http://www.cnrt.nc/dmml/
Total costs	€290,000
Sponsor	CNRT Nickel and its environment
Role	Collaboration (Investigator: Farid Juillot)
Project period	2015-2018
Title	« DYNAmique des métaux de la MINE au lagon (DYNAMINE)», http://www.cnrt.nc/dynamine/
Total costs	€185,000
Sponsor	ANR MATETPRO Ecocorail
Role	Collaboration (Investigator: Marc Jeannin)
Project period	2014-2018
Title	« Procédé physico-chimique pour la synthèse de matériaux marins durables pour la préservation du littoral », http://www.agence-nationale-recherche.fr/Projet-ANR-13-RMNP-0004
Total costs	€1, 000,000
Sponsor	CNRT Nickel and its environment
Role	Collaboration (Investigators: Bice Fubini &Christine Laporte-Magoni)
Project period	2015-2017
Title	« Amiante et Bonnes Pratiques », http://www.cnrt.nc/abp/
Total costs	€124,000

Sponsor	French overseas ministry
Role	Collaboration (Investigator: Arnaud Serres)
Project period	2014-2015
Title	Formation Electrochimique d'un Conglomérat Calcaire pour la réhabilitation des littoraux dans le Pacifique ; tests in situ à Wallis et Futuna (FECC)
Total costs	€42,000
Sponsor	South Pacific funding (n°SPP: 83-1-2013)
Role	Collaboration (Investigator: Arnaud Serres)
Project period	2013-2014
Title	Lutte contre l'érosion des zones littorales du Pacifique par une méthode originale d'électrodéposition (LITTOFORT)
Total costs	€20,000
Sponsor	French overseas ministry
Role	Co-Investigator (Principal investigator: Vincent Lignier)
Project period	2013-2014
Title	Nautilus Death Cave, « Etude paléontologique, hydro-géologique et paléoclimatique des profondeurs du Karst de Lifou, Nouvelle-Calédonie)
Total costs	€35,000
Sponsor	Industrial funding, XSTRATA
Role	Collaboration (Investigator: Christine Laporte-Magoni)
Project period	2012-2014
Title	Evolution temporelle des propriétés physico-chimiques et structurales des minéraux asbestiformes du massif du Koniambo. Vers une meilleure évaluation du risque.
Total costs	€55,000
Sponsor	French overseas ministry
Role	Collaboration (Investigator: Christine Laporte-Magoni)
Project period	2012-2014
Title	Caractérisation des transferts chimiques et des propriétés physiques et physico-chimiques des Minéraux Asbestiformes de la Nouvelle Calédonie. Vers une meilleure évaluation du risque sanitaire lié à l'amiante environnemental (projet CMA-NC)
Total costs	€15,000
Sponsor	French overseas ministry
Role	Investigator
Project period	2011-2013
Title	«Étude des lisiers des élevages porcins » (ELEP)
Total costs	€30,000
Sponsor	CNRT Nickel and its environment
Role	Collaboration (Investigators: Hamid Amir&Laurent l'Huillier)
Project period	2010-2013
Title	«Caractérisation et fonctionnement du système sol/plante/microorganismes dans les maquis miniers. Perspectives d'application à la restauration écologique » (ECOMINE-BIOTOP) http://www.cnrt.nc/ecomine-biotop/
Total costs	€470,000
Sponsor	CNRT Nickel and its environment
Role	Collaboration (Investigator: Dominique Cluzel)
Project period	2011-2014

Title « Fonctionnement de petits bassins versants miniers » (FPBVM)
<http://www.cnrt.nc/fpbvm/>

Thesis (co)-supervised

- Marie Colette (2020-2023) : « Assessment of the remediation / enhancement capacity of shrimp culture pond bottoms by agrohalophilic fallow»
- Perrine Klein (2019-2021) : « Study of the impact of the spreading of fertilizers of residual origin on the behavior of metallic trace elements in agrosystems in New Caledonia »
- Cassandre Certain (2018-2020) : Effect of salinity on growth and nutritional value of native halophytic plants for use in biosaline agriculture
- Jordan Prévot (2016- 2019) : « Formation of a slag-calcomagnesian deposit agglomerate for the recovery of the slag resulting from the pyrometallurgical extraction of nickel»
- Jasmine Pétrigliéri (2014-2017): "Alteration of asbestiform minerals under sub-tropical climate: mineralogical monitoring and geochemistry. The example of New Caledonia."
- Charlotte Carré (2014-2017) : « Use of Calcomagnesian deposit as a tool for decontaminating seawater »
- Camille Pasquet (2013-2016) : « Assessment of the bioavailability of nickel, cobalt and manganese in dust from ultramafic soils and development of a lichen bioindication tool for dust emitted by mining activities in New Caledonia»

Bibliography

Peer-Reviewed publications

1. E. Roth; J. Burgalat; E. Riviere; M. Zaiter; A. Chakir; C. Pasquet; P. Gunkel-Grillon, "Nickel spreading assessment in New Caledonia by lichen biomonitoring coupled to air masses history". **Environmental Science and Pollution Research**, in press, **IF=3.056**
2. K. Schneider, M. Le Mestre, I. Desriaux, P. Gunkel-Grillon, "Occurrence of arsenic in ultramafic rocks' alterites from nickel mines in New Caledonia: implications for the contamination of surfacewaters". **Environmental Chemistry Letters** (2020) 18:1397–1402, **IF=5.922**
3. C. Carré, A. Zanibellato, M. Jeannin, R. Sabot, P. Gunkel-Grillon, A. Serres, "Electrochemical calcareous deposition in seawater. A review". **Environmental Chemistry Letters** (2020) 18:1193–1208, **IF=5.922**
4. J. R. Petriglieri, C. Laporte-Magoni; P. Gunkel-Grillon; M. Tribaudino; D. Bersani; O. Sala; M. Le Mestre; R. Vigliaturo; N. B. Gandolfi; E. Salvioli-Mariani. "Mineral fibres and environmental monitoring: a comparison of different analytical strategies in New Caledonia". **Geoscience frontiers, special issue on ophiolite**. 211(2020), 189-202. **IF=4.202**
5. C. Carré, P. Gunkel-Grillon, A. Serres, M. Jeannin, R. Sabot, T. Quiniou, "Laboratory and in-situ investigations for trapping Pb and Ni with an unusual electrochemical device, the calcareous deposit in seawater". **Scientific reports**, 2019, 9:3400.2019. **IF=3.998**
6. H. Amir, Y. Cavaloc, A. Laurent, P. Pagand, P. Gunkel, M. Le Mestre, V. Médevielle, A. Pain, S. McCoy, « Arbuscular mycorrhizal fungi and sewage sludge enhance growth and adaptation of *Metrosideros Laurifolia* on ultramafic soils in New-Caledonia: A field experiment". **The Science of the Total Environment** 651 (2019) 334-343, **IF=6.551**.
7. C. Pasquet, F. Monna, F. van Oort, P. Gunkel-Grillon, C. Laporte-Magoni, R. Losno, C. Château, « Mobility of Ni, Co, and Mn in ultramafic mining soils of New-Caledonia assessed by kinetic EDTA extractions". **Environmental Monitoring and Assessment** (2018) 190:638, **IF=1.903**.
8. C. Carré, P. Gunkel-Grillon, A. Serres, M. Jeannin, R. Sabot, T. Quiniou, "Calcareous electrochemical precipitation, a new method to trap nickel in seawater". **Environmental Chemistry Letters** 15(1), pp. 151-156, 2017.**IF=5.922**
9. Pasquet C., Gunkel-Grillon, P., Laporte-Magoni C., Serres A., Quiniou T., Rocca F., Monna F., Losno R., van

- Oort, F., Chateau C. "Alternative dry separation of PM10 from soils for characterization by kinetic extraction: example of new Caledonian mining soils". **Environmental Science and Pollution Research**, Volume 23, Issue 24, 1 December 2016, Pages 25105-25113, **IF=3.056**
10. Pasquet, C., Le Monier, P., Monna, F., Durlet, C., Brigaud, B., Losno, R., Chateau, C., Laporte-Magoni, C., Gunkel-Grillon, P. « Impact of nickel mining in New Caledonia assessed by compositional data analysis of lichens ». **SpringerPlus**, Volume 5, Issue 1, 1 December 2016, Article number 2022, **IF=1.780**
 11. P. Gunkel-Grillon, E. Roth, C. Laporte-Magoni, M. Le Mestre, "Effects of long term raw pig slurry inputs on nutrient and metal contamination of tropical volcanogenic soils, Uvéea Island (South Pacific)". **Science of the Total Environment** (2015) 533, 339–346, **IF=6.551**
 12. Gunkel-Grillon, P., Laporte-Magoni, C., Lemestre, M., Bazire, N. "Toxic chromium release from nickel mining sediments in surface waters, New Caledonia". **Environmental Chemistry Letters** (2014) Vol.12, N°4, 511-516, **IF=5.922**
 13. Roth, E., Gunkel-Grillon, P., Joly, L., Thomas, X., Decarpenterie, T., Mappé-Fogaing, I., Laporte-Magoni, C., Dumelié, N., Durry, G., "Impact of raw pig slurry and pig farming practices on physicochemical parameters and on atmospheric N₂O and CH₄ emissions of tropical soils, Uvéea Island (South Pacific)". **Environmental Science and Pollution Research** (2014) 21 : 10022–10035, **IF=3.056**
 14. Mappé, I., Joly, L., Durry, G., Thomas, X., Decarpenterie, T., Cousin, J., Dumelie, N., Roth, E., Chakir, A., Gunkel-Grillon, P. « A quantum cascade laser absorption spectrometer devoted to the in situ measurement of atmospheric N₂O and CH₄ emission fluxes ». **Review of Scientific Instruments**, Volume 84, Issue 2 (2013) Article number 023103, **IF=1.480**
 15. Bayen, S., Gunkel-Grillon, P., Worms, I., Martin, M., Buffle, J. "Influence of inorganic complexes on the transport of trace metals through permeation liquid membrane". **Analytica Chimica Acta** (2009), Volume 646, Issue 1-2, 30, 104-110, **IF=5.997**
 16. P. Gunkel-Grillon, J. Buffle. "Speciation of Cu(II) with a flow-through permeation liquid membrane: Discrimination between free copper, labile and inert Cu(II) complexes, under natural water conditions". **Analyst** (2008), Volume 133, Issue 7, 954-961, **Hot article, IF=3.978**
 17. Unsworth, E.R., Warnken, K.W., Zhang, H., Davison, W., Black, F., Buffle, J., Cao, J., Cleven, R., Galceran, J., Gunkel, P., Kalis, E., Kistler, D., Van Leeuwen, H.P., Martin, M., Noël, S., Nur, Y., Odzak, N., Puy, J., Van Riemsdijk, W., Sigg, L., Temminghoff, E., Tercier-Waeber, M.-L., Toepperwien, S., Town, R.M., Weng, L., Xue, H. "Model predictions of metal speciation in freshwaters compared to measurements by in situ techniques". **Environmental Science and Technology** (2006) 40(6), 1942-1949, **IF=7.864**
 18. Sigg, L., Black, F., Buffle, J., Cao, J., Cleven, R., Davison, W., Galceran, J., Gunkel, P., Kalis, E., Kistler, D., Martin, M., Noël, S., Nur, Y., Odzak, N., Puy, J., Van Riemsdijk, W., Temminghoff, E., Tercier-Waeber, M.-L., Toepperwien, S., Town, R.M., Unsworth, E., Warnken, K.W., Weng, L., Xue, H., Zhang, H.L. "Comparison of analytical techniques for dynamic trace metal speciation in natural freshwaters". **Environmental Science and Technology** (2006) 40(6), 1934-194, **IF=7.864**
 19. P. Gunkel, E. Roth, B. Fabre. "Sequential extraction of copper from soils and relationships with copper in maize". **Environmental Chemistry letters** (2004) 2(2), 99-103, **IF=5.922**
 20. P. Gunkel, E. Roth, B. Fabre. "Copper distribution in chemical soil fractions and relationships with maize crop yield". **Environmental Chemistry letters** (2003), 1: 92-97, **IF=5.922**
 21. P. Gunkel, K. Jezequel, B. Fabre. "Temporal evolution of copper distribution in soil fractions, influence of soil pH and organic carbon level on copper distribution." **Environmental Technology** (2002), 23(9), pp1001-1008, **IF=2.213**

Other publications

1. L. Pinto-Diaz, P. Gunkel-Grillon, E. Roth, "Life Cycle Analysis for the treatment of organic matter from municipal solid waste: a case study of France". *WIT Transaction on Ecology and the Environment, Environmental Impact IV Proceedings*, Volume 215, 2018, 69-80.

2. E. Roth, E. Rivière, J. Burlagat, N. Ngassa, Y. Dembele, M. Zalter, A. Chakir, C. Pasquet, R. Pigeau, P. Gunkel-Grillon, "The fate of atmospheric dust from mining activities in New-Caledonia and the impact on the nickel content of lichen". WIT Transaction on Ecology and the Environment, Environmental Impact IV Proceedings, Volume 215, 2018, 489-498.
3. P. Gunkel-Grillon*, C. Carré, A. Serres, M. Jeannin, R. Sabot, «The calcareous deposit formed under cathodic polarization of a galvanised steel electrode as metals remediation device of seawater», 18th International Conference on Heavy Metals in the Environment (ICHMET) proceedings, p27-28, 12 -15 September 2016, Ghent, Belgium
4. P. Gunkel-Grillon*, A. Boula, M. Le Mestre, C. Laporte-Magoni, «Chromium contamination of water due to Ni mines, New-Caledonia», 18th International Conference on Heavy Metals in the Environment (ICHMET proceedings, p581-582, 12-15 September 2016, Ghent, Belgium
5. C. Pasquet, P. Le Monier, F. Monna, C. Durllet, B. Brigaud, R. Losno, C. Laporte-Magoni, P. Gunkel-Grillon, "Lichen used assess nickel atmospheric dispersion, an example of New-Caledonia", ISBN 978-1-84626-xxx-x, Proceedings of 2015 International Conference on Environment, Chemistry and Biology, (ICECB 2015), Auckland, 19-21 November, 2015
6. A. Boula, C. Laporte-Magoni, P. Gunkel-Grillon and N. Selmaoui-Folcher, « Determination of geochemical background pattern of surface waters in an ultramafic and non-anthropic context: Koniambo massif, New-caledonia », Conference paper: International Conference on Oceans and Rivers (ICOR 2014), Fidji, 2014
7. H. Amir, A. Laurent, Y. Cavaloc, P. Pagand, P. Gunkel, M. Lemestre, V. Médevielle, "Improving growth and adaptation of *Carpolepis laurifolia*, an endemic plant species used on ecological restoration of mined areas in New Caledonia. Field experiment on the combined effects of arbuscular mycorrhizal fungi and organic amendment". Conference paper: Second International Conference of the Society for Ecological restoration Australasia (SERA), Nouméa, New-Caledonia, 2014
8. E. Roth, B. Fabre, P. Gunkel. " Revue bibliographique sur les techniques mises en œuvre pour le traitement des sols pollués par les isomères et les résidus de l'hexachlorocyclohexane". Déchets- Revue francophone d'écologie industrielle, Juin 2005, 38, pp8-14
9. B. Fabre, P. Gunkel " Etude de la bioaccumulation d'éléments traces métalliques dans du maïs cultivé sur un sol agricole pollué". CNRIUT 2004. Tome 1, Sciences et Techniques de l'ingénieur: Publications de l'IUT de Nice Côte d'Azur, Mai 2004
10. E. Roth, P. Gunkel, B. Fabre. " Etude de la teneur en cuivre d'un sol viticole Champenois ". CNRIUT 2002, Tome 1, Mathématiques, biologie, biochimie, sciences pour l'ingénieur, chimie, informatique: Publications de l'université de Bourgogne, IUT du Creusot, Mai 2002, 275-280
11. B. Fabre, E. Roth, P. Gunkel. " Adsorption du Cadmium sur différentes fractions d'un sol limoneux acide. Influence de la matière organique et du modèle d'adsorption ". CNRIUT 2002, Tome 1, Mathématiques, biologie, biochimie, sciences pour l'ingénieur, chimie, informatique: Publications de l'université de Bourgogne, IUT du Creusot, Mai 2002, pp163-168
12. K. Jézéquel, P. Gunkel, B. Fabre, E. Roth. "Etude de la corrélation entre la teneur en cuivre dans la fraction échangeable de sols agricoles et la teneur en cuivre dans le maïs à différents stades de développement." CNRIUT 2001, volume 1, Publications de l'Université de St Etienne, 2001, 123-132
13. B. Fabre, P. Gunkel. " Dosages de métaux lourds dans des sols par chromatographie ionique. Comparaison avec l'ICP-AES. " Harmattan Editions, Sciences et technologies : regards croisés, Juin 1999, 333-341

Abstracts (* for speaker)

1. P. Gunkel-Grillon*, E. Roth, M. Le Mestre, C. Laporte-Magoni, « Effects of long term raw pig slurry inputs on nutrient and metal contamination of tropical volcanogenic soils, Uvéa Island (South Pacific) ,

- 3ème Conférence du Réseau de recherche des universités du Pacifique insulaire (PIURN), 8-10 oct. 2018 Outumaoro, Punaauia (Polynésie française).
2. J. Petriglieri, C. Laporte-Magoni, P. Gunkel-Grillon, E. Salvioli-Mariani, N. Selmaoui-Folcher, M. Le Mestre, « Weathering Influence on fiber release of asbestos type minerals under subtropical climate.” XXII Meeting of the International Mineralogical Association (IMA), 13-17 august 2018, Melbourne.
 3. J. Petriglieri; C. Laporte-Magoni; E. Salvioli-Mariani; M. Tomatis; E. Gazzano; P. Gunkel-Grillon; F. Turci; A. Cavallo; B. Fubini. « Not-Regulated Mineral Fibers. From the Identification to the Toxicity of Fibrous Antigorite from New Caledonia.” 13th IAEG Congress, San Francisco, California, September 17-21, 2018.
 4. J. Petriglieri; C. Laporte-Magoni; E. Salvioli-Mariani; O. Sala; P. Gunkel-Grillon; M. Tribaudino; D. Bersani; A. Cavallo, “Environmental Risk of Fibrous Minerals in New Caledonia: a Monitoring Strategy.” 13th IAEG Congress, San Francisco, California, September 17-21, 2018.
 5. C. Carré, A. Serres, P. Gunkel-Grillon*, M. Jeannin, R. Sabot, « Calcareous electrochemical precipitation, a new method to trap dissolved metallic contaminants in seawater” 4th International Conference on Electrochemistry, June 11-12, 2018 in Rome, Italy.
 6. J. Petriglieri, C. Laporte-Magoni, E. Salvioli-Mariani, M. Tribaudino, P. Gunkel-Grillon, M. Le Mestre, L. Mantovani, A. Cavallo, D. Bersani, « Identification of mineral fibres in mining context using a portable/handheld Raman spectrometer. ». XIII GeoRaman Conference, Catania – June 10-14 2018
 7. M. Baudrimont, Y. Dominique, P. Gunkel-Grillon, F. Juillot, J. Bellec, R. Maury-Brachet, P. Gonzalez, P. Gourves, A. Feurtet-Mazel, « Accumulation et transfert de Ni, Cr, Co, Mn et Fe dans des organismes d’eau douce prélevés en rivière sous influence minière (Mont Koniambo, Nouvelle Calédonie), 14ème édition du colloque international francophone en écotoxicologie aquatique EcoBIM 2018, 22-25 mai 2018, Université de Bordeaux, Talence-France.
 8. M. Baudrimont, Y. Dominique, P. Gunkel-Grillon, F. Juillot, A. Boula, C. Laporte-Magoni, N. Semaoui Folcher, J. Bellec, R. Maury-Brachet, P. Gonzalez, P.Y. Gourves, A. Feurtet-Mazel, “Mining activities in New Caledonia: transfer of Ni, Cr, Co, Mn and Fe in freshwater trophic webs from natural biofilm to carnivorous fish”1st International Workshop on the geochemical cycle of nickel, Nancy, October 17 to 19, 2017
 9. C. Pasquet & P. Gunkel-Grillon* & C. Laporte-Magoni & A. Serres & T. Quiniou & F. Rocca & F. Monna & R. Losno & F. van Oort, “A new and simple dry separation of PM10 from mining soils for Ni, Co and Mn bioavailability study by kinetic extractions”, SETAC Australasia Conférence, The role of environmental toxicology and chemistry in a changing environment, Goldcoast Australia, 4-6 sept 2017
 10. C. Carré, A. Serres, P. Gunkel-Grillon*, M. Jeannin, R. Sabot, “Calcareous electrochemical precipitation, a new method to trap dissolved metallic pollutants in seawater” SETAC Australasia Conférence, The role of environmental toxicology and chemistry in a changing environment, Goldcoast Australia, 4-6 sept 2017
 11. M. Baudrimont, Y. Dominique, P. Gunkel-Grillon, F. Juillot, A. Boula, C. Laporte-Magoni, N. Semaoui Folcher, J. Bellec, R. Maury-Brachet, P. Gonzalez, P.Y. Gourves, A. Feurtet-Mazel, “Transfer of Ni, Cr, Co, Mn and Fe from mining activities to freshwater trophic webs in rivers of New Caledonia”, SETAC Australasia Conférence, The role of environmental toxicology and chemistry in a changing environment, Goldcoast Australia, 4-6 sept 2017
 12. C. Pasquet, P. Le Monier, F. Monna, C. Laporte-Magoni, P. Gunkel-Grillon*, “Lichen and compositional data analysis: a new approach to investigate areas influenced by Ni mines dusts. SETAC Australasia Conférence, The role of environmental toxicology and chemistry in a changing environment, Goldcoast Australia, 4-6 sept 2017
 13. J.R. Petriglieri, C. Laporte-Magoni, E. Salvioli-Mariani, P. Gunkel-Grillon, M. Tribaudino, L. Mantovani, D. Bersani, P.P. Lottici, and M. Tomatis, “ Monitoring environmental risk in fibrous minerals in New

- Caledonia: a comparison between different analytical methods*, European Geosciences Union (EGU) General Assembly 2017, Vienna, Austria, 23–28 April 2017
14. Petriglieri J.R, Laporte-Magoni , Salvioli-Mariani , Gunkel-Grillon P. , Tribaudino M., Bersani , Lottici P., Mantovani L., Gandolfi N.B., “Fibrous minerals in New Caledonia: a comparison of different analytical strategies for environmental monitoring.” SIMPS 2017, “Geosciences: a tool in a changing world”, Pise, Italie
 15. Julian Guezenoc, Camille Pasquet, Peggy Gunkel-Grillon, Monika Le Mestre, Christine Laporte-Magoni, Lena Bassel, Frédéric Adamietz, Anne Gallet-Budynek and Bruno Bousquet, “LIBS analysis of soils from New Caledonia to evaluate the environmental impact of the extraction of nickel ore”. The 9th International Conference on Laser-Induced Breakdown Spectroscopy (LIBS), Chamonix-Mont-Blanc, France, September 12 – 16 2016
 16. Julian Guezenoc, Camille Pasquet, Peggy Gunkel-Grillon, Monika Le Mestre, Christine Laporte-Magoni, Lena Bassel, Frédéric Adamietz and Bruno Bousquet, “LIBS analysis of soils from New Caledonia to evaluate the environmental impact of the extraction of nickel ore”, SciX 2016: The 43rd Annual North American Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), 18-23 sept 2016
 17. P. Gunkel-Grillon*, C. Carré, A. Serres, M. Jeannin, R. Sabot, «The calcareous deposit formed under cathodic polarization of a seawater d steel electrode as metals remediation device of seawater”, 18th International Conference on Heavy Metals in the Environment (ICHMET), 12 -15 September 2016, Ghent, Belgium
 18. P. Gunkel-Grillon*, A. Boula, M. Le Mestre, C. Laporte-Magoni, «Chromium contamination of water due to Ni mines, New-Caledonia”, 18th International Conference on Heavy Metals in the Environment (ICHMET), 12-15 September 2016, Ghent, Belgium
 19. Pasquet, C.; Gunkel-Grillon, P.; Laporte-Magoni, C.; Monna, F.; Losno, R.; van Oort, F. (2016) “Kinetic extraction as an accurate tool to assess nickel bioavailability in ultramafic soils”. SETAC Asia/Pacific Singapore, 16-19 sept. 2016.
 20. M. Jeannin, C. Carré, R. Sabot, A. Serres, P. Gunkel-Grillon, T. Quiniou, P. Refait, “Study of the Calcareous formed on galvanized steel by cathodic protection in seawater, EUROCORR (European corrosion congress), Montpellier 11-15 septembre 2016
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