

## Publications du service "Service de Physique biomédicale"

2025

### Périodiques scientifiques/Article

- Bernardi, M., de Oliveira Silva, R., Vuong, Q. L., Sakellariou, D., & GOSSUIN, Y. (January 2025). NMR Relaxometry to Monitor In Situ the Loading of Amberlite IR120 and Dowex Marathon MSC Resins With Ni<sup>2+</sup> and Cu<sup>2+</sup> During a Column Experiment. "Magnetic Resonance in Chemistry, 63" (1), 62 - 73. doi:10.1002/mrc.5490  
**Texte intégral :** [Magnetic Reson in Chemistry - 2024 - Bernardi - NMR Relaxometry to Monitor In Situ the Loading of Amberlite IR120 and Dowex.pdf](#) (Accès libre)

2024

### Périodiques scientifiques/Article

- Rousseau, C., Vuong, Q. L., Gossuin, Y., Maes, B., & Rosolen, G. (December 2024). Concurrent photothermal therapy and nuclear magnetic resonance imaging with plasmonic-magnetic nanoparticles: A numerical study. "Computer Methods and Programs in Biomedicine, 257", 108453. doi:10.1016/j.cmpb.2024.108453  
**Texte intégral :** [Manuscript\\_reviewed.pdf](#) (Accès libre)
- Bernardi, M., Hantson, A.-L., Caulier, G., Eyley, S., Thielemans, W., De Weireld, G., & Gossuin, Y. (September 2024). Ni<sup>2+</sup> removal by ion exchange resins and activated carbon: a benchtop NMR study. "International Journal of Environmental Science and Technology, 21" (13), 8337 - 8360. doi:10.1007/s13762-024-05547-2  
**Texte intégral :** [Bernardi-IJEST-2024.pdf](#) (Accès libre)

### Colloques et congrès scientifiques/Communication orale non publiée/Abstract

- Vuong, Q. L., Gossuin, Y., & Kinet, F. (11 September 2024). "THEORY OF PROTON RELAXATION INDUCED BY SUPERPARAMAGNETIC NANOPARTICLE: A CLASSICAL APPROACH TO NMRD" [Paper presentation]. 13th FFC NMR Conference, Palerme, Italy.  
**Texte intégral :** [template-13th-ffcrelax\\_vuong.pdf](#) (Accès libre)
- Moké, M., Carette, J., Gossuin, Y., Nsasi, E. B., Mutombo, C. S., Bakari, S. A., Duez, P., Nachtergaele, A., & Kahumba, J. (23 August 2024). "Microscopic, HPTLC and LF-NMR techniques as practical tools for quality assurance and quality control of herbal health products: the case of *Calea urticifolia* (Mill.) DC. authentication" [Paper presentation]. Journée Scientifique - FSP/UNILU.

### Colloques et congrès scientifiques/Communication poster

- Martin, E., Gossuin, Y., & Vuong, Q. L. (26 November 2024). "Monte Carlo simulations of transverse relaxation induced by superparamagnetic iron oxide nanoparticles with a semipermeable coating" [Poster presentation]. 20th Young Belgian Magnetic Resonance Scientists conference, Blankenberge, Belgium.  
**Texte intégral :** [YBMRS\\_2024.pdf](#) (Accès libre)
- Bernardi, M., De Oliveira-Silva, R., Vuong, Q. L., Sakellariou, D., & Gossuin, Y. (25 November 2024). "NMR relaxometry to monitor in situ the loading of ion exchange resins with Ni<sup>2+</sup> and Cu<sup>2+</sup> ions during a column experiment" [Poster presentation]. YBMRS.  
**Texte intégral :** [poster-ffc24.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (10 September 2024). "Monte Carlo simulations of transverse relaxation induced by superparamagnetic iron oxide nanoparticles with a semipermeable coating" [Poster presentation]. 13th Conference on Fast Field Cycling NMR Relaxometry (FFCRelax 2024).  
**Texte intégral :** [Poster-FFCRelax-2024\\_corrige.pdf](#) (Accès libre)
- Bernardi, M., De Oliveira-Silva, R., Vuong, Q. L., Sakellariou, D., & Gossuin, Y. (09 September 2024). "NMR relaxometry to monitor in situ the loading of ion exchange resins with Ni<sup>2+</sup> and Cu<sup>2+</sup> ions during a column experiment" [Poster presentation]. Fast Field Cycling Conference FFC24, Palerme, Italy.

**Texte intégral :** [poster-ffc24.pdf](#) (Accès libre)

- Fritsche, F., Rosolen, G., De Corte, A., Maes, B., Gossuin, Y., & Vuong, Q. L. (2024). "Monte Carlo Simulations of the relaxation induced by cubic- shaped superparamagnetic nanoparticles" [Poster presentation]. Fast Field Cycling (FFC) 2024, Palermo, Italy.

**Texte intégral :** [FRITSCHÉ\\_FFC\\_2024.pdf](#) (Accès libre)[Abstract\\_FFC2024.pdf](#) (Accès libre)

- Fritsche, F., Rosolen, G., De Corte, A., Maes, B., Gossuin, Y., & Vuong, Q. L. (2024). "Monte Carlo Simulations of the relaxation induced by cubic- shaped superparamagnetic nanoparticles" [Poster presentation]. Belgium Physical Society (BPS) 2024, Blankenberge, Belgium.

**Texte intégral :** [FRITSCHÉ\\_BPS\\_2024.pdf](#) (Accès libre)[Abstract\\_BPS\\_2024.pdf](#) (Accès libre)

- Fritsche, F., Rosolen, G., De Corte, A., Maes, B., Gossuin, Y., & Vuong, Q. L. (2024). "Monte Carlo Simulations of the relaxation induced by cubic- shaped superparamagnetic nanoparticles" [Poster presentation]. Young Belgium Magnetic Resonance Scientists (YBMRS) 2024.

**Texte intégral :** [FRITSCHÉ\\_YBMRS\\_2024.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Communication dans les médias

- Gossuin, Y. (2024). "Infos de téléMB - "de professeur à animateur climat" - courte interview dans le cadre de ce reportage". Mons, Unknown/unspecified: Télé MB.

2023

#### Périodiques scientifiques/Article

- Gossuin, Y., Vuong, Q. L., & Lascialfari, A. (27 June 2023). Comment on "Structure-Correlated Magnetic Resonance Transverse Relaxivity Enhancement in Superparamagnetic Ensembles with Complex Anisotropy Landscape". "Langmuir, 39" (25), 8935 - 8937. doi:10.1021/acs.langmuir.2c03428

**Texte intégral :** [gossuin-et-al-2023-comment-on-structure-correlated-magnetic-resonance-transverse-relaxivity-enhancement-in.pdf](#) (Accès libre)

- Gossuin, Y., Duez, P., Blankert, B., Masson, C., Laurent, S., & Rousseau, C. (07 January 2023). NMR relaxometry to monitor chromium (VI) reduction by hydrogen peroxide, ascorbic acid and aluminum powder. "Magnetic Resonance in Chemistry, 61", 284-295. doi:10.1002/mrc.5332

**Texte intégral :** [17608240.pdf](#) (Accès libre)

- S. Leon-Chaviano, M. Kiseleva, P. Legros, S. Collin, T. Lescot, Henoumont, C., Gossuin, Y., Laurent, S., D. Mayrand, J. Fradette, A. Bégin-Drolet, & J. Ruel, M. A. F. (2023). A Nanoparticle Ink Allowing the High Precision Visualization of Tissue Engineered Scaffolds by MRI. "Small". doi:10.1002/smll.202206644

**Texte intégral :** [Small - 2023 - Leon Chaviano - A Nanoparticle Ink Allowing the High Precision Visualization of Tissue Engineered Scaffolds.pdf](#) (Accès libre)

#### Colloques et congrès scientifiques/Communication orale non publiée/Abstract

- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (14 November 2023). "Benchtop NMR Relaxometry for monitoring Cu<sup>2+</sup> removal using ion exchange resins and commercial activated charcoal" [Paper presentation]. 19th edition of the Young Belgian Magnetic Resonance Scientist symposium (YBMRS), Blankenberge, Belgium.

- Fritsche, F., Rosolen, G., Maes, B., Gossuin, Y., & Vuong, Q. L. (17 May 2023). "Monte Carlo Simulations of the T2 Relaxation induced by Cubic Shaped Superparamagnetic NanoParticles" [Paper presentation]. Belgian Physical Society (BPS), Namur, Belgium.

**Texte intégral :** [OralPresentation\\_BPS.pdf](#) (Accès libre)[Abstract\\_BPS\\_2023.pdf](#) (Accès libre)

#### Colloques et congrès scientifiques/Communication poster

- Fritsche, F., Rosolen, G., Maes, B., Gossuin, Y., & Vuong, Q. L. (14 November 2023). "Monte Carlo Simulations of the T2 relaxation induced by Cubic Shaped Superparamagnetic Nanoparticles" [Poster presentation]. Young Belgian Magnetic Resonance Scientist symposium (YBMRS), Blankenberge, Belgium.  
**Texte intégral :** [FRITSCHÉ\\_YBMRS\\_2023.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (13 November 2023). "Monte Carlo simulations of transverse relaxation induced by superparamagnetic iron oxide nanoparticles with a semipermeable coating" [Poster presentation]. Young Belgian Magnetic Resonance Scientist, Blankenberge, Belgium.  
**Texte intégral :** [Abstract\\_YBMRS.pdf](#) (Accès libre)
- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (11 July 2023). "Benchtop NMR relaxometry to monitor Ni (II) removal by resin and activated charcoal" [Poster presentation]. Euromar 2023.  
**Texte intégral :** [ID283 Paper No - 72\\_P008-Benchtop NMR relaxometry to monitor Ni\(II\) removal by resin and activated charcoal.pdf](#) (Accès libre)
- Fritsche, F., Rosolen, G., Maes, B., Gossuin, Y., & Vuong, Q. L. (July 2023). "NMR transverse relaxation induced by cubic nanoparticles: a Monte Carlo simulation study" [Poster presentation]. Euromar 2023.  
**Texte intégral :** [ID 549 Paper Number 149 NMR transverse relaxation induced by cubic nanoparticle .pdf](#) (Accès libre)
- Gossuin, Y., Duez, L., Blankert, B., Masson, C., Laurent, S., & Rousseau, C. (July 2023). "NMR relaxometry to monitor chromium (VI) reduction by hydrogen peroxide, ascorbic acid and aluminum powder" [Poster presentation]. euromar 2023, Glasgow, United Kingdom.  
**Texte intégral :** [poster-euromar.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., Kavak, S., Bals, S., & Vuong, Q. L. (17 May 2023). "Monte Carlo and Experimental Study of the Magnetic Behaviour of Superparamagnetic Iron Oxide Nanoparticles" [Poster presentation]. Belgian Physical Society Scientific Meeting 2023, Namur, Belgium.  
**Texte intégral :** [Poster-BPS-2023.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Article grand public

- Tessier, L., & Martin, E. (Other coll.). (2023). Ils racontent la face cachée du doctorat : "Mon promoteur a menacé de me virer parce que je demandais cinq jours de congé". "Moustique".  
**Texte intégral :** [Ils racontent la face cachée du doctorat Mon promoteur a menacé de me virer parce que je demandais cinq jours de congé - Moustique.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Autre

- Martin, E. (2023). "Erreur 404 : contraste introuvable".
- Gamrath, S., Cimino, L., De corte, A., Lhost, G., & Bernardi, M. (2023). "Table ronde - La vie d'un doctorant en physique".

2022

#### Périodiques scientifiques/Article

- Gossuin, Y., Martin, E., Vuong, Q. L., DELROISSE, J., Laurent, S., Stanicki, D., & Rousseau, C. (June 2022). Characterization of commercial iron oxide clusters with high transverse relaxivity. "Journal of Magnetic Resonance Open, 10-11", 100054. doi:10.1016/j.jmro.2022.100054  
**Texte intégral :** [Gossuin\\_et\\_al\\_2022.pdf](#) (Accès libre)

- Gossuin, Y., & Gallez, B. (2022). Editorial for "Phase I Randomized Trial of 17 O-Labeled Water: Safety and Feasibility Study of Indirect Proton MRI for the Evaluation of Cerebral Water Dynamics": old concepts, new applications. "Journal of Magnetic Resonance Imaging". doi:10.1002/jmri.28209  
**Texte intégral** : [Magnetic Resonance Imaging - 2022 - Gossuin - Editorial for Phase I Randomized Trial of 17O Labeled Water Safety and.pdf](#) (Accès libre)

#### Colloques et congrès scientifiques/Communication orale non publiée/Abstract

- Bernardi, M. (24 August 2022). "Benchtop NMR relaxometry for the follow-up of Ni(II) removal by three ion exchange resins" [Paper presentation]. the 15th International Bologna Conference on Magnetic Resonance in Porous Media (MRPM15).

#### Colloques et congrès scientifiques/Communication poster

- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (11 July 2022). "Benchtop NMR relaxometry for the follow-up of Cr(III) and Mn(II) removal by ion exchange resin" [Poster presentation]. EUROMAR 2022.  
**Texte intégral** : [euromar-abstract-2022.pdf](#) (Accès libre) [EUROMAR-2022\\_Poster-Marie\\_Bernardi.pdf](#) (Accès libre)
- Gossuin, Y., Martin, E., Vuong, Q. L., Delroisse, J., Laurent, S., Stanicki, D., & Rousseau, C. (July 2022). "Characterization of commercial iron oxide clusters as potential Magnetic Resonance Imaging contrast agent" [Poster presentation]. euromar 22.  
**Texte intégral** : [poster-euromar-2022.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., Bals, S., Kavak, S., & Vuong, Q. L. (15 June 2022). "Monte Carlo and Experimental Study of the Magnetic Behaviour of Superparamagnetic Nanoparticles" [Poster presentation]. Scientific and Clinical Applications of Magnetic Carriers.  
**Texte intégral** : [Poster SCAMC.pdf](#) (Accès libre) [Abstract\\_SCAMC.pdf](#) (Accès libre)
- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (18 May 2022). "Study of Cr(III) and Mn(II) loaded resin by benchtop nuclear magnetic resonance" [Poster presentation]. BPS 2022.  
**Texte intégral** : [Abstract\\_BPS\\_Marie.pdf](#) (Accès libre) [SBP-2022\\_Poster-Marie\\_Bernardi\\_final.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., Bals, S., Kavak, S., & Vuong, Q. L. (18 May 2022). "Monte Carlo and experimental study of the magnetic behaviour of superparamagnetic iron oxide nanoparticles" [Poster presentation]. Belgian Physical Society Meeting 2022.  
**Texte intégral** : [Poster SCAMC.pdf](#) (Accès libre)
- Gossuin, Y., Martin, E., Vuong, Q. L., Delroisse, J., Laurent, S., Stanicki, D., & Rousseau, C. (2022). "Characterization of commercial iron oxide clusters as potential Magnetic Resonance Imaging contrast agent" [Poster presentation]. BPS 2022.  
**Texte intégral** : [poster-2022.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Autre

- Cimino, L., De Corte, A., Gamrath, S., & Martin, E. (2022). "Un doctorat en physique : Séance d'introduction et table ronde".

2021

#### Colloques et congrès scientifiques/Communication poster

- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (06 December 2021). "Low resolution nuclear magnetic resonance for the study of nickel (II) and manganese (II) removal by ion exchange resin" [Poster presentation]. YBMRS, Virtual event, Belgium.  
**Texte intégral** : [poster-mb-YBMRS.pdf](#) (Accès libre)

- Martin, E., Gossuin, Y., & Vuong, Q. L. (06 December 2021). "Simulation of Water Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles Trapped in a Biological Tissue" [Poster presentation]. YBMRS, Virtual event, Belgium.  
**Texte intégral** : [Video\\_pitch\\_YBMRS.mkv](#) (Accès libre) [YBMRS\\_dia\\_intro.pdf](#) (Accès libre) [Poster\\_YBMRS\\_Eleonore\\_Martin.pdf](#) (Accès libre)
- Bernardi, M., & Gossuin, Y. (25 August 2021). "Study of heavy metal removal by benchtop NMR" [Poster presentation]. ISMAR-APNMR, Virtual event, Unknown/unspecified.  
**Texte intégral** : [poster\\_ISMAR-2021-MB-2021.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (25 August 2021). "Simulation of Water Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles Trapped in a Biological Tissue" [Poster presentation]. ISMAR-APNMR, Virtual event, Unknown/unspecified.  
**Texte intégral** : [ISMAR\\_2021.pdf](#) (Accès libre)
- Bernardi, M., Hantson, A.-L., & Gossuin, Y. (05 July 2021). "Study of heavy metal loaded resins by benchtop NMR" [Poster presentation]. euromar, en ligne, Unknown/unspecified.  
**Texte intégral** : [EUROMAR-Marie-Bernardi.pdf](#) (Accès libre)
- Gossuin, Y., Laurent, S., Masson, C., Duez, P., & Blankert, B. (01 July 2021). "Following chromium (IV) reduction by low resolution nuclear magnetic relaxometry" [Poster presentation]. euromar.  
**Texte intégral** : [poster\\_euromar-yves-gossuin.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (30 April 2021). "Monte Carlo and Experimental Study of the Magnetic Relaxation of Superparamagnetic Nanoparticle Ensembles" [Poster presentation]. Intermag 2021, Lyon, France.  
**Texte intégral** : [Intermag\\_poster.mp4](#) (Accès libre) [Poster\\_Magnet2021\\_corrige.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (12 February 2021). "Monte Carlo and Experimental Study of the Magnetic Relaxation of Superparamagnetic Nanoparticle ensembles" [Poster presentation]. Magnet 2021, Italy.  
**Texte intégral** : [Poster\\_Magnet2021\\_corrige.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Article grand public

- Carlot, P., & Martin, E. (Other coll.). (2021). Soapbox Science : une initiative pour mettre les femmes scientifiques en valeur. "Article web RTBF".  
**Texte intégral** : [Soapbox\\_Science\\_une\\_initiative\\_pour\\_mettre\\_les\\_femmes\\_scientifiques\\_en\\_valeur.pdf](#) (Accès libre)

#### Allocutions et communications diverses/Autre

- Chabal, J., Dedier, A. (Other coll.), Mira, S. (Other coll.), & Martin, E. (Other coll.). (2021). "Soapbox part à la rencontre du public pour pousser les femmes à se lancer dans les études scientifiques".

2020

#### Périodiques scientifiques/Article

- Gossuin, Y., Hantson, A.-L., & Vuong, Q. L. (01 February 2020). low resolution benchtop nuclear magnetic resonance for the follow-up of the removal of Cu<sup>2+</sup> and Cr<sup>3+</sup> from water by amberlite IR120 ion exchange resin. "Water Research, 33", 101024. doi:10.1016/j.jwpe.2019.101024  
**Texte intégral** : [amberlite.pdf](#) (Accès libre)
- Nicolas, C., Desoil, M., Gossuin, Y., Gillis, P., & Gallez, B. (05 January 2020). Electron Paramagnetic Resonance Imaging of Melanin in Honey Bee. "Cell Biochemistry and Biophysics, 78(2)", 123-126. doi:10.1007/s12013-020-00903-8  
**Texte intégral** : [Charlier2020\\_Article\\_ElectronParamagneticResonanceI.pdf](#) (Accès libre)

2019

Périodiques scientifiques/Article

- Henrard, D., Vuong, Q. L., Delangre, S., Valentini, X., Nonclercq, D., Gonon, M., & Gossuin, Y. (18 November 2019). Monitoring of Superparamagnetic Particle Sizes in the Langevin Law Regime. "Journal of Nanomaterials, 2019", 6409210. doi:10.1155/2019/6409210  
**Texte intégral :** [magneto-daniel.pdf](#) (Accès libre)

Colloques et congrès scientifiques/Communication orale non publiée/Abstract

- Martin, E., Gossuin, Y., & Vuong, Q. L. (06 June 2019). "Simulation of the Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles trapped in a biological tissue" [Paper presentation]. 11th conference on fast field cycling NMR relaxometry, Pise, Italy.
- Gossuin, Y., & Vuong, Q. L. (05 June 2019). "NMR relaxometry for adsorption studies: proof of concept with copper adsorption on activated alumina" [Paper presentation]. 11th conference on fast field cycling NMR relaxometry, Pise, Italy.
- Gossuin, Y. (05 June 2019). "Simulation of the Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles Trapped in a Biological Tissue" [Paper presentation]. 11th conference on fast field cycling NMR relaxometry, Pise, Italy.
- Martin, E., Gossuin, Y., & Vuong, Q. L. (09 May 2019). "Simulation of the Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles trapped in a biological tissue" [Paper presentation]. Contrast-enhanced biomedical imaging, the 16th biannual conference, Mons, Belgium.
- Gossuin, Y. (09 May 2019). "Simulation of the Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles Trapped in a Biological Tissue" [Paper presentation]. Contrast-enhanced biomedical imaging, the 16th biannual conference, Mons, Belgium.

Colloques et congrès scientifiques/Communication poster

- Gossuin, Y., & Vuong, Q. L. (22 May 2019). "NMR relaxometry for adsorption studies: proof of concept with copper adsorption on activated alumina" [Poster presentation]. Annual Meeting of the Belgian Physical Society, ULB, Bruxelles, Belgium.  
**Texte intégral :** [Yves-Gossuin.pdf](#) (Accès libre)
- Gossuin, Y., & Vuong, Q. L. (22 May 2019). "NMR relaxometry for the study of paramagnetic ions adsorption on different substrates" [Poster presentation]. Contrast-enhanced biomedical imaging, the 16th biannual conference, Mons, Belgium.  
**Texte intégral :** [contrast-mons-2019-abstract.pdf](#) (Accès libre)
- Martin, E., Gossuin, Y., & Vuong, Q. L. (22 May 2019). "Simulation of Nuclear Magnetic Relaxation Induced by Superparamagnetic Nanoparticles trapped in a biological tissue" [Poster presentation]. Annual Meeting of the Belgian Physical Society, ULB, Bruxelles, Belgium.
- Gossuin, Y. (18 March 2019). "Présentation du service de physique biomédicale" [Poster presentation]. Événement de maillage UHMAP, Mons, Belgium.

2018

Périodiques scientifiques/Article

- Gossuin, Y., Vuong, Q. L., Grunin, L., Van Nederveelde, L., & Pietercelie, A. (30 September 2018). Illustration of inversion recovery and CarrPurcellMeiboomGill sequences by the determination of ethanol content in alcoholic beverages. "Concepts in Magnetic Resonance. Part A, Bridging Education and Research, 46" (a), 21460. doi:10.1002/cmr.a.21460  
**Texte intégral :** [cmra\\_21460-corrected.pdf](#) (Accès libre)

- Gossuin, Y., & Vuong, Q. L. (09 August 2018). NMR relaxometry for adsorption studies: proof of concept with copper adsorption on activated alumina. "Separation and Purification Technology, 202", 138-143.
- Vuong, Q. L., Rigaut, C., & Gossuin, Y. (09 May 2018). Refraction Law and Fermat Principle: a project using the Ant Colony Optimization algorithm for undergraduate students in physics. "European Journal of Physics, 39", 045806.

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- Gossuin, Y., & Vuong, Q. L. (06 December 2018). "NMR relaxometry for adsorption studies: proof of concept with copper adsorption on activated alumina" [Poster presentation]. YBMRS, Spa, Belgium.  
**Texte intégral** : [poster-ybmrs-2018.pdf](#) (Accès libre)
- Vuong, Q. L., & Gossuin, Y. (11 April 2018). "Magnetometry of superparamagnetic nanoparticles: influence of size polydispersity, dipolar interaction and anisotropy energy" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.
- Gossuin, Y., Vuong, Q. L., Van Nederveelde, L., & Pietercelie, A. (11 April 2018). "Nuclear Magnetic Resonance (NMR) relaxometry for the determination of ethanol content in alcoholic beverages: a tool for NMR education?" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.  
**Texte intégral** : [poster-bps2018.pdf](#) (Accès libre)

#### Mémoires et thèses/Thèse de doctorat

- Henrard, D., Vuong, Q. L., Delangre, S., Valentini, X., Nonclercq, D., & Gossuin, Y. (2018). "Mesure de distribution de taille et d'anisotropie de nanoparticules de magnétite en solution par magnétométrie" [Doctoral thesis, Université de Mons]. ORBi UMONS-University of Mons. <https://orbi.umons.ac.be/handle/20.500.12907/1073>

#### Allocutions et communications diverses/Autre

- Gossuin, Y. (2018). "L'université séduit de plus en plus les étudiants: est-elle porteuse en termes d'emplois? RTL".

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2017

#### Périodiques scientifiques/Article

- Gossuin, Y., Okusa, P. N., Vuong, Q. L., & Duez, P. (06 November 2017). NMR relaxation properties of the synthetic malaria pigment beta-hematin. "Scientific Reports, 7", 14557. doi:10.1038/s41598-017-15238-3  
**Texte intégral** : [malaria.pdf](#) (Accès libre)
- Bouchoucha, M., Van Heeswijk, R. B., Gossuin, Y., Kleitz, F., & Fortin, M.-A. (08 September 2017). Fluorinated Mesoporous Silica Nanoparticles for Binuclear Probes in <sup>1</sup>H and <sup>19</sup>F Magnetic Resonance Imaging. "Langmuir, 33" (40), 10531-10542. doi:10.1021/acs.langmuir.7b01792  
**Texte intégral** : [fluorinated-probes-langmuir2017.pdf](#) (Accès libre)
- Vuong, Q. L., Gillis, P., Roch, A., & Gossuin, Y. (01 April 2017). Magnetic resonance relaxation induced by superparamagnetic particles used as contrast agents in MRI: a theoretical review. "Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 9" (6). doi:10.1002/wnan.1468  
**Texte intégral** : [vuong\\_2017.pdf](#) (Accès libre)
- Volatron, J., Kolosnjaj-Tabi, J., Javed, Y., Vuong, Q. L., Gossuin, Y., Neveu, S., Luciani, N., Hémadi, M., Carn, F., alloyeau, D., & Gazeau, F. (09 January 2017). Physiological Remediation of Cobalt Ferrite Nanoparticles by Ferritin. "Scientific Reports, 7", 40075. doi:10.1038/srep40075  
**Texte intégral** : [volatron\\_2017.pdf](#) (Accès libre)

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- Gossuin, Y., Okusa, P. N., Vuong, Q. L., & Duez, P. (08 June 2017). "Effect of the synthetic malaria pigment b-hematin on water NMR relaxation times: implications for malaria diagnosis by NMR" [Paper presentation]. 10th Conference on Fast Field-Cycling NMR Relaxometry, Mikolajki, Poland.

Colloques et congrès scientifiques/Communication poster

- Henrard, D., Vuong, Q. L., Delangre, S., Valentini, X., Nonclercq, D., & Gossuin, Y. (04 December 2017). "Anisotropy constant estimation of magnetite nanoparticles via hysteresis curves analysis" [Poster presentation]. YBMRS 16e édition, Blankenberge, Belgium.
- Gossuin, Y. (01 December 2017). "NMR relaxation properties of the synthetic malaria pigment -hematin" [Poster presentation]. YBMRS 16e édition, Blankenberge, Belgium.  
**Texte intégral :** [poster-bps2017.pdf](#) (Accès libre)
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