

List of publications of Pierre Mathys

List fulfilling the [Guide for applicants 2017](#)'s requirements

3. Articles published in peer-review journals

1. Lonys, L., Vanhoestenberghé, A., Huberty, V., Hiernaux, M., Cauche, N., Julemont, N., Debelle, A., Huberland, F., Acuna Otarola, V., Godfraind, C., Devière, J., Delchambre, A., **Mathys, P.**, & Nonclercq, A. (2016, June). Design and implementation of a less invasive gastrostimulator. *European Journal of Translational Myology*.
2. Lonys, L., Vanhoestenberghé, A., Julemont, N., Godet, S., Delplancke, M.-P., **Mathys, P.**, & Nonclercq, A. (2015, January 06). Silicone rubber encapsulation for an endoscopically implantable gastrostimulator. *Medical & biological engineering & computing*, 53(4), 319-329. doi:10.1007/s11517-014-1236-9
3. Nonclercq, A., Foulon, M., Verheulpen, D., De Cock, C., Buzatu, M., **Mathys, P.**, & Van Bogaert, P. (2012). Cluster-based spike detection algorithm adapts to interpatient and inpatient variation in spike morphology. *Journal of neuroscience methods*, 210(2), 259-65.
https://dipot.ulb.ac.be/dspace/bitstream/2013/126847/1/Cluster_based_spike_detection_algorithm_adapts_to_interpatient.pdf
4. Nonclercq, A., & **Mathys, P.** (2010). Quantification of Motion Artifact Rejection Due to Active Electrodes and Driven-Right-Leg Circuit in Spike Detection Algorithms. *IEEE transactions on biomedical engineering*, 57(11), 2746-2752. doi:10.1109/TBME.2010.2055867
<https://dipot.ulb.ac.be/dspace/bitstream/2013/66494/1/TBME2055867.pdf>
5. Nonclercq, A., Foulon, M., Verheulpen, D., De Cock, C., Buzatu, M., **Mathys, P.**, & Van Bogaert, P. (2009, April). Spike detection algorithm automatically adapted to individual patients applied to spike-and-wave percentage quantification. *Neurophysiologie clinique*, 39(2), 123-131. doi:10.1016/j.neucli.2008.12.001
https://dipot.ulb.ac.be/dspace/bitstream/2013/226002/1/Elsevier_209629.pdf
6. Osee, M., Boey, C., Bairy, E., Robert, F., & **Mathys, P.** (2008, February). Pour bien commencer l'électronique: écoutez la radio! *Journal sur l'enseignement des sciences et technologies de l'information et des systèmes*, 7(HS 1). doi:10.1051/j3ea:2008007
7. Boey, C., Raman, V., Robert, F., & **Mathys, P.** (2006). Une plateforme logicielle interactive pour percevoir intuitivement le comportement temporel des circuits électriques et électroniques. *Journal sur l'enseignement des sciences et technologies de l'information et des systèmes*, 5(HS 2).
8. Nonclercq, A., Boey, C., Schaub, G., Robert, F., & **Mathys, P.** (2006). Illustration de problèmes de compatibilité électromagnétique (CEM). *Journal sur l'enseignement des sciences et technologies de l'information et des systèmes*, 5(HS 2).
https://dipot.ulb.ac.be/dspace/bitstream/2013/74297/1/Illustration_de_problemes_de_compatibilite_electromagnetique.pdf

9. Nonclercq, A., Verheulpen, D., De Cock, C., **Mathys, P.**, & Foulon, M. (2006). A new simultaneously objective and patient-specific spike and wave detection algorithm based on template matching (abstract). *Epilepsia*, 47(Supplément S3), 9. doi:10.1111/j.1528-1167.2006.00715_4.x
https://dipot.ulb.ac.be/dspace/bitstream/2013/93459/1/A_new_simultaneously_objective_and_patient_specific_spike_and_wave.pdf
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10. De Cock, C., Nonclercq, A., Verheulpen, D., Foulon, M., **Mathys, P.**, & Jacquy, J. (2006). Relationship between the characteristics of slow-wave components and cognitive impairment in rolandic epilepsy (abstract). *Epilepsia*, 47(Supplément S3), 190-191. doi:10.1111/j.1528-1167.2006.00715_33.x
https://dipot.ulb.ac.be/dspace/bitstream/2013/93460/1/Relationship_between_the_characteristics_of-Slow_wave_components.pdf
<https://dipot.ulb.ac.be/dspace/bitstream/2013/93460/4/93460.pdf>
11. Robert, F., **Mathys, P.**, Velaerts, B., & Schauwers, J.-P. (2005, August). Two-dimensional analysis of the edge effect field and losses in high-frequency transformer foils. *IEEE transactions on magnetics*, 41(8), 2377-2383. doi:10.1109/TMAG.2005.852938
12. Leroy, A., Robert, F., & **Mathys, P.** (2005). Simulation didactique interactive d'une jonction semi-conductrice. *Journal sur l'enseignement des sciences et technologies de l'information et des systèmes*, 4(HS 2).
13. Nonclercq, A., Verheulpen, D., De Cock, C., **Mathys, P.**, & Foulon, M. (2005). A new spike-wave detection algorithm showing high sensitivity, low false positive rate and reduced computing time permits good detection of electrical status epilepticus during slow sleep (ESES) (abstract). *Epilepsia*, 46(Supplément S6), 234. doi:10.1111/j.1528-1167.2005.460602.x
https://dipot.ulb.ac.be/dspace/bitstream/2013/93461/1/A_new_spike_wave_detection_algorithm_showing_high_sensitivity.pdf
<https://dipot.ulb.ac.be/dspace/bitstream/2013/93461/4/93461.pdf>
14. De Groote, A., Groswasser, J., Bersini, H., **Mathys, P.**, & Kahn, A. (2002, June). Detection of obstructive apnea events in sleeping infants from thoracoabdominal movements. *Journal of sleep research*, 11(2), 161-168.
15. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (2001, May). A closed-form formula for 2-D ohmic losses calculation in SMPS transformer foils. *IEEE transactions on power electronics*, 16(3), 437-444. doi:10.1109/63.923777
16. Robert, F., **Mathys, P.**, & Velaerts, B. (2001). L'alimentation à découpage: principes et applications. *Revue E Tijdschrift*, 2, 16-23.
17. Sackner, M. A., De Groote, A., Verbandt, Y., Paiva, M., & **Mathys, P.** (2001). Piezoelectric sensor vs. respiratory inductive plethysmograph. *Journal of applied physiology*, 90, 403-404.

18. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (2000). Layer copper factor, although widely used and useful, has no theoretical base. *PESC Record - IEEE Annual Power Electronics Specialists Conference*, 3, 1633-1638.
19. De Groote, A., Verbandt, Y., Paiva, M., & **Mathys, P.** (2000). Measurement of thoraco-abdominal asynchrony: importance of sensor sensitivity to cross section deformations. *Journal of applied physiology*, 88, 1295-1302.
20. Robert, F., & **Mathys, P.** (1998). Ohmic losses calculation in SMPS transformers: Numerical study of Dowell's approach accuracy. *IEEE transactions on magnetics*, 34(4 PART 1), 1255-1257.
21. Bertha, F., Valaerts, **Mathys, P.**, Tatakis, E., Wyns, A., bogaerts, D., & Miller, M. M. (1993). Improved power diode model for Pspice, applied to converter simulation. *IEE Conference Publication*, 2(377), 247-254.
22. Claessens, P., **Mathys, P.**, Bou Saada, J., & Colignan, (1993). Optimized, adaptive, reduced-order flux-observer. *IEE Conference Publication*, 4(377), 422-427.
23. Wyns, A., bogaerts, D., Van Eck, J.-L., & **Mathys, P.** (1993). PSPICE simulations and 3D-PCB transformers for ZVS full bridge converters. *IEE Conference Publication*, 3(377), 208-215.
24. Velaerts, B., & **Mathys, P.** (1991, October). Microcontroller-based Multi-mode 3-Level Pulse-Width-Modulation. *E P E Journal*, 1(2), 133-138.
25. **Mathys, P.**, & Van Eck, J.-L. (1991, July). Specific Integrated Circuits for Power Electronics. *E P E Journal*, 1(1), 61-66.
26. **Mathys, P.** (1988). Commande numérique des machines asynchrones en vitesse variable - 2ème partie. *Revue E Tijdschrift*, 104(1/1), 41-54.
27. Velaerts, B., **Mathys, P.**, Tatakis, E., & Bingen, G. (1988). Novel approach to the generation and optimization of three-level PWM wave forms. *PESC Record - IEEE Annual Power Electronics Specialists Conference*, 1255-1262.
28. **Mathys, P.** (1987). Commande numérique des machines asynchrones en vitesse variable - 1ère partie. *Revue E Tijdschrift*, 103(1/2), 51-59.
29. Koulischer, J., **Mathys, P.**, & Bingen, G. (1986). COMPUTER-AIDED CHOICE OF DIGITAL PWM STRATEGIES. *PESC Record - IEEE Annual Power Electronics Specialists Conference*, 49-57.

4. Articles published in conference proceedings

1. Lonys, L., Vanhoestenbergh, A., Huberty, V., Hiernaux, M., Cauche, N., Julemont, N., Debelle, A., Huberland, F., Acuna Otarola, V., Godfraind, C., Devière, J., Delchambre,

- A., **Mathys, P.**, & Nonclercq, A. (2016, June 10). Design and implementation of a less invasive gastrostimulator. *Proceedings of the IFESS Annual Conference*.
2. Lonys, L., Vanhoestenberghé, A., Huberty, V., Hiernaux, M., Cauche, N., Julemont, N., Devière, J., **Mathys, P.**, & Nonclercq, A. (2013). A first prototype of an endoscopically implantable gastrostimulator. *Proceedings of the IFESS Annual Conference. 18th Annual International FES Society Conference* (pp. 1-3).
https://dipot.ulb.ac.be/dspace/bitstream/2013/146617/1/A_first_prototype_of_an_endoscopically_implantable.pdf
 3. Lonys, L., Vanhoestenberghé, A., Devière, J., Julemont, N., Huberty, V., Cauche, N., Hiernaux, M., **Mathys, P.**, & Nonclercq, A. (2013). An endoscopically implantable gastric stimulator. *12th Belgian Day on Biomedical Engineering – joint meeting with IEEE EMBS Benelux Chapter* (p. 1).
https://dipot.ulb.ac.be/dspace/bitstream/2013/160851/1/An_endoscopically_implantable_gastric_stimulator.pdf
 4. Osee, M., Robert, F., & **Mathys, P.** (2011, September 01). A digital platform for real-time simulation of power converters with high switching frequency. *Power Electronics and Applications (EPE 2011), Proceedings of the 2011-14th European Conference on*.
 5. Lonys, L., Hiernaux, M., Cauche, N., Devière, J., Vanhoestenberghé, A., **Mathys, P.**, & Nonclercq, A. (2011). Challenges for the design of an endoscopically implanted electrostimulator. *Proceedings of the IFESS Annual Conference* (pp. 1-3).
https://dipot.ulb.ac.be/dspace/bitstream/2013/91896/1/Challenges_for_the_design_of_an_endoscopically_implanted.pdf
 6. Lonys, L., **Mathys, P.**, & Nonclercq, A. (2011). Human energy harvesting used for endoscopic implant power supply. *Proceedings of ISB2011* (pp. 1-2).
https://dipot.ulb.ac.be/dspace/bitstream/2013/91895/1/Human_energy_harvesting_used_for_endoscopic_implant_power_supply.pdf
 7. Lonys, L., Delchambre, A., **Mathys, P.**, & Nonclercq, A. (2010). Human energy harvesting used for endoscopic implant power supply. *Proceedings of Belgian Day on Biomedical Engineering* (p. 1).
https://dipot.ulb.ac.be/dspace/bitstream/2013/78262/3/Human_energy_harvesting_used_for_endoscopic.pdf
 8. Anthony, A., Jaumain, M., Penelle, B., Warzée, N., **Mathys, P.**, & Nonclercq, A. (2010). Electromyogram pattern recognition in neurophysiology and physiotherapy. *Proceedings of Belgian Day on Biomedical Engineering* (p. 1).
https://dipot.ulb.ac.be/dspace/bitstream/2013/78263/1/EMG_pattern_recognition_final.pdf
 9. Jaumain, M., Osee, M., Richard, A., Vander Biest, A., & **Mathys, P.** (2007, September 03). Educational simulation of the RiSC processor. *Proc. ICEE (International Conference on Engineering Education), 03-07/09/07, Coimbra (Portugal)*.
 10. Boey, C., Bairy, E., Robert, F., & **Mathys, P.** (2006). Un dispositif d'évaluation mixte (formative/sommative) efficace et perçu positivement par les étudiants dans le cadre

de laboratoires en sciences de l'ingénieur. *Actes des 8e Biennale internationale de l'Education et de la Formation.*

11. Nonclercq, A., Verheulpen, D., De Cock, C., **Mathys, P.**, & Foulon, M. (2006). A new, simultaneously objective and patient-specific, spike and wave detection algorithm based on template matching. *Proceedings of 7th European Congress on Epileptology*: Vol. 32 (pp. 123-131).
https://dipot.ulb.ac.be/dspace/bitstream/2013/70861/1/A_new_simultaneously_objective_and_patient_specific_spike_and_wave.pdf
12. De Cock, C., Nonclercq, A., Verheulpen, D., Foulon, M., **Mathys, P.**, & Jacquy, J. (2006). Relationship between the characteristics of slow-wave components and cognitive impairment in rolandic epilepsy. *Proceedings of 7th European Congress on Epileptology Helsinki, Finland* (pp. 1-2).
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13. Nonclercq, A., Boey, C., Schaub, G., Robert, F., & **Mathys, P.** (2005). Illustration de problèmes de compatibilité électromagnétique (CEM). *Actes du 5ème Colloque sur l'Enseignement des Technologies et des Sciences de l'Information et des Systèmes* (pp. 1-6).
https://dipot.ulb.ac.be/dspace/bitstream/2013/70865/1/Nonclercq_2005.pdf
14. Robert, F., Sprooten, J., **Mathys, P.**, Schauwers, J.-P., & Velaerts, B. (2005). Eddy current losses in SMPS transformers round wire windings: a semi-analytical closed-form formula. *Proceedings of the 11th European Conference on Power Electronics and Applications*.
15. Nonclercq, A., Verheulpen, D., De Cock, C., **Mathys, P.**, & Foulon, M. (2005). A new spike-wave detection algorithm showing high sensitivity, low false positive rate and reduced computing time permits a good detection of electrical status epilepticus during slow sleep (ESES). *Proceedings of 26th International Epilepsy Congress* (p. 1).
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16. Nonclercq, A., & **Mathys, P.** (2005). High resolution wave generator permits test and calibration of medical instrumentation devices. *Proceedings of 3rd IFMBE European Conference on Biomedical Engineering* (pp. 1-5).
https://dipot.ulb.ac.be/dspace/bitstream/2013/70864/1/Nonclercq_2005.pdf
17. Nonclercq, A., & **Mathys, P.** (2004). Reduction of power line interference using active electrodes and a driven-right-leg circuit in electroencephalographic recording with a minimum number of electrodes. *Conf Proc IEEE Eng Med Biol Soc.* (pp. 2247-2250).
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18. Nonclercq, A., & **Mathys, P.** (2004). Characterisation of the electrodes used in the EEG. *Proceedings of Forum URSI* (p. 1).
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19. Nonclercq, A., & **Mathys, P.** (2004). Design of a DC-coupled amplifier for biological measurements based on a Sallen-Key filter. *Proceedings of Belgian Day on Biomedical Engineering* (p. 1).
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20. Nonclercq, A., Driessens, E., Adams, S., & **Mathys, P.** (2003). New strategies of acquisition and processing of encephalographic potentials. *Proceedings of Forum URSI* (p. 1).
https://dipot.ulb.ac.be/dspace/bitstream/2013/70868/1/New_strategies_of_acquisition_and_processing.pdf
21. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (2002, August 07). Simultaneous analysis of harmonics and 2D effects on the optimal thickness of transformer windings. *Digest of Technical Papers INTERMAG Europe 2002* (p. 3). IEEE.
22. COLASSE, A. A., Delporte, L., MASSELUS, J.-E. J.-E., Osee, M., & **Mathys, P.** (2001, September 03). Symetrisation of asymetrical short-circuits in IGBT drives. *Proc. 9th European Conference on Power Electronics and Applications*.
23. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (2001). Eddy current losses in SMPS transformers: a full-frequency-range review of 2D effects inside the windings. *Proceedings of the European Power Electronics and Applications Conference* (p. 10).
24. Robert, F., **Mathys, P.**, Schauwers, J.-P., & Velaerts, B. (2001). Copper losses and power density of power transformer technologies. *Proc. 23rd International elecommunications Energy Conference INTELEC 2001* (pp. 73-80).
25. Schauwers, J.-P., Velaerts, B., Robert, F., & **Mathys, P.** (2000). Modélisation et simulation de transformateurs: application aux transformateurs planaires. *Actes du Congrès SIMTEC* (p. 10).
26. BODSON, J.-M. J.-M., Bou Saada, J., COLASSE, A. A., Delporte, L., MASSELUS, J.-E. J.-E., **Mathys, P.**, & Osee, M. (1999, September 07). ONIX3000 : an IGBT propulsion drive directly coupled to the 3kV catenary for railway application. *Proc. 8th European Conference on Power Electronics and Applications*.
27. BODSON, J.-M. J.-M., Bou Saada, J., COLASSE, A. A., Colignon, P. P., MASSELUS, J.-E. J.-E., **Mathys, P.**, & Osee, M. (1999, September 07). Study of direct series connection of IGBT for a 3kV chopper. *Proc. 8th European Conference on Power Electronics and Applications*.
28. Bou Saada, J., Delporte, L., Colignon, P. P., Thomas, P. P., **Mathys, P.**, & Osee, M. (1999, September 07). High power factor, high efficiency bi-directional GTO rectifier for locomotive application (2nd part). *Proc. 8th European Conference on Power Electronics and Applications*.
29. Schauwers, J.-P., Nunes, C., Velaerts, B., Robert, F., & **Mathys, P.** (1999). Planar transformer technology applied to AC/DC conversion. *Proceedings of the INTELEC Conference* (p. 5).

30. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (1999). Advanced guidelines and optimization tools for foil conductors design in SMPS transformers. *Proceedings of the European Power Electronics and Applications Conference* (p. 8).
31. Robert, F., **Mathys, P.**, & Schauwers, J.-P. (1998). Ohmic losses calculation in SMPS transformers: numerical study of Dowell's approach accuracy. *Proceedings of the 7th Joint MMM-Intermag Conference* (p. 3).
32. Bou Saada, J., Colignon, P. P., Thomas, P. P., Avaux, F., Delporte, L., & **Mathys, P.** (1997). High Power factor High efficiency bidirectional GTO rectifiers for locomotif application. *Proc. 7th European Conference on Power Electronics and Applications: Vol. 4* (pp. 298-304). EPE Association.
33. bogaerts, D., George, N., & **Mathys, P.** (1995). Intelligent energy systems for telecommunications. *Proc. 17th International Telecommunications Energy Conference* (pp. 203-206).
34. Velaerts, B., Schauwers, J.-P., bogaerts, D., Miller, M., **Mathys, P.**, & Van Eck, J.-L. (1995). Multi-resonant techniques applied to a family of single-output DC-DC converters. *Proc. 6th European Conference on Power Electronics and Applications: Vol. 2* (pp. 612-617).
35. Bertha, F., Velaerts, B., **Mathys, P.**, Tatakis, E., Wijns, A., bogaerts, D., & Miller, M. (1993). An improved power diode model for PSPICE applied to converter simulation. *Proc. 5th European Conference on Power Electronics and Applications: Vol. 2* (pp. 249-254). EPE Association.
36. Wijns, A., bogaerts, D., Van Eck, J.-L., & **Mathys, P.** (1993). PSPICE simulations and 3-D PCB transformers for ZVS full-bridge converter. *Proc. 5th European Conference on Power Electronics and Applications: Vol. 3* (pp. 208-215). EPE Association.
37. Claessens, P., **Mathys, P.**, & Bou Saada, J. (1993). An optimized, adaptative, reduced order flux observer. *Proc. 5th European Conference on Power Electronics and Applications: Vol. 4* (pp. 422-427). EPE Association.
38. Velaerts, B., & **Mathys, P.** (1991). Study of 2 and 3-level Precalculated Modulations. *Proc. 4th European Conference on Power Electronics and Applications: Vol. 3* (pp. 228-234). EPE Association.
39. Velaerts, B., **Mathys, P.**, & Bingen, G. (1989). New developments of 3-level PWM strategies. *Proc. 3rd European Conference on Power Electronics and Applications* (pp. 411-416). EPE Association.
40. Velaerts, B., **Mathys, P.**, Tatakis, E., & Bingen, G. (1988). A novel approach to the generation and optimization of three-level PWM wave forms. *Proc. PESC'88 IEEE Power Electronics Specialists Conference* (pp. 0-3).
41. Bingen, G., Koulischer, J., & **Mathys, P.** (1986). Computer aided choice of digital PWM strategies. *Proc. Power Electronics Specialists Conference* (pp. 49-57).

42. Koulischer, J., & **Mathys, P.** (1985). Modulateur numérique à hautes performances pour onduleurs à transistors de puissance. *Proc. 1st European Conference on Power Electronics and Applications*: Vol. 2 (pp. 105-111). EPE Association.
43. **Mathys, P.**, Maggetto, G., & Van Eck, J.-L. (1983). Performances d'un modulateur à microprocesseur pour onduleur MLI. *Actes du colloque international sur la commande et la régulation numériques des machines électriques 1983 toulouse*: Vol. II (pp. 52-59).
44. Maggetto, G., Van Eck, J.-L., **Mathys, P.**, & Van Dooren, Y. (1982). Application des techniques digitales à la commande de chaînes de traction à moteurs asynchrones. *Proc. Drive Electric 82* (pp. 509-519).
45. **Mathys, P.** (1982). Microprocessor based multimode synchronous pulse width modulation. *Proc. Microelectronics in Power electronics and Electrical Drives* (pp. 237-242).
46. **Mathys, P.** (1981). Prom based modulator for an inverter fed asynchronous machine drive. *Proc. 4th Power Electronics Conference*: Vol. II (pp. 51-59).
47. Maggetto, G., Van Eck, J.-L., Broucke, A., & **Mathys, P.** (1981). Battery chargers for commercial electric vehicles, a comparison of different solutions. *Proc. Electric Vehicle 81*.
48. **Mathys, P.**, Kirschen, D., Maggetto, G., & Van Eck, J.-L. (1980). Modulateur digital pour un onduleur à thyristors ultra-rapides. *Actes du colloque international sur la commande et la régulation numériques des machines électriques*: Vol. II (pp. 22-30).
49. Maggetto, G., Van Eck, J.-L., Debacker, H., Moortgat, D., Meyers, R., & **Mathys, P.** (1980). Brussels Electric Vehicle Experiment. *Proc. Drive Electric 80*.

5. Oral presentations during conferences, which include a review committee

1. **Mathys, P.** (1996). *Les bus de terrain : concept général et évolution*. Paper session presented at SRBE Société Royale Belge des Electriciens (1996: Bruxelles).
2. **Mathys, P.** (1994). *Analog Simulation with PSPICE for the design of switch-mode power supplies*. Paper session presented at Semaine de la Technologie de la Region Wallonne (1994: Wavre).
3. **Mathys, P.** (1993). *Les besoins en communication des capteurs et actionneurs intelligents - Présentation succincte des différents réseaux de terrain*. Paper session presented at AIM93 (1993: Liège).
4. **Mathys, P.** (1990). *Appareillages de test à microprocesseur pour auto-adhésifs*. Paper session presented at ISIL (1990: Liège).
5. **Mathys, P.** (1989). *Des capteurs classiques aux capteurs intelligents*. Paper session presented at IBRA Institut Royal Belge de Régulation et d'Automatisme (1989).

6. Maggetto, G., & **Mathys, P.** (1984). *Chargeurs de batterie à haute fréquence: une évolution de la technique de charge des batteries pour la traction routière et la manutention: bilan énergétique*. Paper session presented at SRBE Société Royale Belge de Electriciens (1984: Bruxelles).
7. Bingen, G., & **Mathys, P.** (1984). *L'évolution des transistors de puissance*. Paper session presented at SRBE Société Royale Belge des Electriciens (1984: Bruxelles).
8. **Mathys, P.**, Maggetto, G., & Van Eck, J.-L. (1983). *Performances d'un modulateur à microprocesseur pour onduleur MLI*. Paper session presented at AIM83 - Utilisation des semi-conducteurs de puissance en électrotechnique (1983: Liège).
9. **Mathys, P.** (1982). *Evolution des modulateurs PWM pour machines asynchrones; des circuits câblés aux microprocesseurs*. Paper session presented at SRBE Société Royale Belge des Electriciens (1982: Bruxelles).
10. **Mathys, P.**, Maggetto, G., & Van Eck, J.-L. (1980). *Commande digitale d'un groupe moteur asynchrone onduleur de tension à thyristors ultra rapides; avantages et inconvénients*. Paper session presented at AIM80 Utilisation des semi-conducteurs de puissance en électrotechnique (1980: Liège).