



# Pierre Vigneron

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## Publications

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**2024** - Aikaterini Premeti, Maria Pia Bucci, Karin Heidlmayr, Pierre Vigneron, Frédéric Isel. Neurodynamics of selected language processes involved in word reading: An EEG study with French dyslexic adults. *Journal of Neurolinguistics*, 2024, 71, pp.101201. (10.1016/j.jneuroling.2024.101201). (hal-04782988)  
<https://hal.science/hal-04782988v1>

**2022** - Pierre Vigneron, Jean-Baptiste Champenois, Paul Jourda, Celia Alameda Angulo, Sylvie Granet, et al.. Babylon: R&D program for French Bituminized Waste Products acceptability in deep geological repository. International Conference on Nuclear Fuel Cycle GLOBAL 2022, SFEN, Jul 2022, Reims, France. Technical sessions-Topic6\_Waste Management\_6a-Strategy, Options. (cea-03847147)  
<https://cea.hal.science/cea-03847147v1>

**2022** - Gauthier Hulot, Pierre Vigneron, Louis Chauvet, Jean-Michel Leger, Thomas Jager. Self-calibrated absolute vector data produced by the ASM absolute magnetometers on board the Swarm satellites : results, availability and prospect. ESA Living Planet Symposium, May 2022, Bonn, Germany. 2022. (cea-04454614)  
<https://cea.hal.science/cea-04454614v1>

**2022** - Gauthier Hulot, Pierdavide Coisson, Louis Chauvet, Pierre Vigneron, Jean-Michel Leger, et al.. Swarm ASM burst-mode L1b data and the L2 whistler product they allow to derive. LPS 2022 - 2022 Living Planet Symposium, ESA, May 2022, Bonn, Germany. (cea-04454612)  
<https://cea.hal.science/cea-04454612v1>

**2021** - Erwan Thébault, Gauthier Hulot, Benoit Langlais, Pierre Vigneron. A Spherical Harmonic Model of Earth's Lithospheric Magnetic Field up to Degree 1050. *Geophysical Research Letters*, 2021, 48 (21), (10.1029/2021GL095147). (hal-03420984)  
<https://nantes-universite.hal.science/hal-03420984v1>

**2021** - Gauthier Hulot, Jean-Michel Leger, Lasse B. N. Clausen, Florian Deconinck, Pierdavide Coisson, et al.. NanoMagSat, a 16U nanosatellite constellation high-precision magnetic project to initiate permanent low-cost monitoring of the Earth's magnetic field and ionospheric environment. EGU21 - The EGU General Assembly 2021, Apr 2021, Vienne, Austria. (10.5194/egusphere-egu21-14660). (cea-03343593)  
<https://cea.hal.science/cea-03343593v1>

**2021** - Yanyan Yang, Gauthier Hulot, Pierre Vigneron, Xuhui Shen, Zhima Zeren, et al.. The CSES Global Geomagnetic Field Model (CGGM): An IGRF type global geomagnetic field model based on data from the China Seismo-Electromagnetic Satellite.. *Earth Planets and Space*, 2021, 73, pp.45. (10.1186/s40623-020-01316-w). (hal-03092984v2)  
<https://hal.science/hal-03092984v2>

- 2021** - Pierre Vigneron, Gauthier Hulot, Jean-Michel Leger, Thomas Jager. Using improved Swarm's experimental absolute vector mode data to produce a candidate Definitive Geomagnetic Reference Field (DGRF) 2015.0 model. *Earth Planets and Space*, 2021, 73 (197), <https://doi.org/10.1186/s40623-021-01529-7>. (10.1186/s40623-021-01529-7). (cea-03409434) <https://cea.hal.science/cea-03409434v1>
- 2020** - Gauthier Hulot, Pierre Vigneron, Jean-Michel Léger, Thomas Jager. On the self-calibrated absolute vector data produced by the ASM absolute magnetometers on board the Swarm satellites, results and prospect. EGU General Assembly 2020, May 2020, Vienne, Austria. (10.5194/egusphere-egu2020-10515). (cea-03141557) <https://cea.hal.science/cea-03141557v1>
- 2019** - Pierre Vigneron. Mesures vectorielles expérimentales des instruments ASM de la mission SWARM, : du commissioning à la production de modèles de champs géomagnétiques. Sciences de la Terre. Université Paris Cité, 2019. Français. (NNT : 2019UNIP7162). (tel-03139970) <https://theses.hal.science/tel-03139970v1>
- 2019** - Gauthier Hulot, Jean-Michel Léger, Pierre Vigneron, Thomas Jager, Pierdavide Coïsson, et al.. The NanoMagSat (Swarm Delta) nanosatellite high-precision magnetic project. 21st EGU General Assembly, EGU2019, Apr 2019, Vienne, Austria. (cea-03141553) <https://cea.hal.science/cea-03141553v1>
- 2019** - Pierdavide Coïsson, Gauthier Hulot, Pierre Vigneron, Pierre Deram, Jean-Michel Léger, et al.. 0+ whistlers in the ELF band recorded by Swarm satellites used to reconstruct the ionosphere below the satellite height. 21st EGU General Assembly, EGU2019, Apr 2019, Vienne, Austria. (cea-03141549) <https://cea.hal.science/cea-03141549v1>
- 2016** - Erwan Thébault, Pierre Vigneron, Benoit Langlais, Gauthier Hulot. A Swarm lithospheric magnetic field model to SH degree 80. *Earth Planets and Space*, 2016, 68, pp.126. (10.1186/s40623-016-0510-5). (insu-01412242) <https://insu.hal.science/insu-01412242v1>
- 2016** - Isabelle Fratter, Jean-Michel Léger, François Bertrand, Thomas Jager, Gauthier Hulot, et al.. Swarm Absolute Scalar Magnetometers first in-orbit results. *Acta Astronautica*, 2016, 121, pp.76-87. (10.1016/j.actaastro.2015.12.025). (insu-03581663) <https://insu.hal.science/insu-03581663v1>
- 2015** - Gauthier Hulot, Pierre Vigneron, Jean-Michel Léger, Isabelle Fratter, Nils Olsen, et al.. Swarm's absolutemagnetometer experimental vectormode, an innovative capability for space magnetometry. *Geophysical Research Letters*, 2015, (10.1002/2014GL062700). (insu-01408629) <https://insu.hal.science/insu-01408629v1>
- 2015** - Pierre Vigneron, Gauthier Hulot, Nils Olsen, Jean-Michel Léger, Thomas Jager, et al.. A 2015 International Geomagnetic Reference Field (IGRF) candidate model based on Swarm's experimental absolute magnetometer vector mode data. *Earth Planets and Space*, 2015, 67, pp.95. (10.1186/s40623-015-0265-4). (insu-01412648) <https://insu.hal.science/insu-01412648v1>
- 2015** - Jean-Michel Léger, Thomas Jager, François Bertrand, Gauthier Hulot, Laura Brocco, et al.. In-flight performance of the Absolute Scalar Magnetometer vector mode on board the Swarm satellites. *Earth Planets and Space*, 2015, 67, pp.57. (10.1186/s40623-015-0231-1). (insu-01409797) <https://insu.hal.science/insu-01409797v1>
- 2015** - Erwan Thébault, Christopher C Finlay, Ciarán D Beggan, Patrick Alken, Julien J Aubert, et al..

International Geomagnetic Reference Field: the 12th generation. Earth Planets and Space, 2015, 67, pp.79. (10.1186/s40623-015-0228-9). (insu-01412375)  
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2014 - Pierdavid Coisson, Pierre Vigneron, Gauthier Hulot, R. Crespo Grau, Laura Brocco, et al.. Swarm's Absolute Scalar Magnetometers Burst Mode Results. AGU Fall Meeting, Dec 2014, San Francisco, France. 2014. (hal-04059782)  
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2013 - Nils N Olsen, Eigil D Friis-Christensen, Rune N Floberghagen, Patrick N Alken, H D Beggan, et al.. The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products. Earth Planets and Space, 2013, 65 (1), pp.1319-1200. (10.5047/eps.2013.07.001). (insu-01404764)  
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2013 - Patrick Alken, Stefan Maus, Pierre Vigneron, Olivier Sirol, Gauthier Hulot. Swarm SCARF equatorial electric field inversion chain. Earth Planets and Space, 2013, 65 (11), pp.1309-1317. (10.5047/eps.2013.09.008). (insu-01403949)  
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<https://insu.hal.science/insu-01404028v1>

1986 - Louis Lefaucheur, C. Le Peuch, Bruno Barenton, Pierre Vigneron. Characterization of insulin binding to slices of slow and fast twitch skeletal muscles in the rabbit. Hormone and Metabolic Research, 1986, 18 (11), pp.725-729. (10.1055/s-2007-1012420). (hal-02727407)  
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1982 - Francis Bacou, Pierre Vigneron, Jean Massoulié. Acetylcholinesterase forms in fast and slow rabbit muscle. Nature, 1982, 296 (5858), pp.661-664. (10.1038/296661a0). (hal-02728024)  
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