

# PUBLICATION LIST

## PATRICE ABRY

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# 1 Books

## 1.1 as author (1)

1. Patrice Abry  
Ondelettes et Turbulence - Multirésolutions, algorithmes de décompositions, invariance d'échelle et signaux de pression,  
Diderot, Editeurs des sciences et des arts, Paris, Octobre 1997, 289 pages. [.cover](#)

## 1.2 as editor (2)

- DL2 Patrice Abry, Paulo Gonçalves, Jacques Lévy Véhel, Eds.  
Scaling, Fractal and wavelets.  
ISTE Ltd, London, Wiley, Hoboken, 2009.
- DL1 Sous la direction de Patrice Abry, Paulo Gonçalves, Jacques Lévy Véhel,  
Lois d'échelle, Fractals et Ondelettes, Volumes 1 et 2.  
Hermès, traité Information, Commande, Contrôle, Paris, France, avril 2002. [.cover](#)

# 2 Scientific Mediation Articles (4)

- V4 P. Abry,  
Comment estimer l'évolution du Covid19 malgré des données de contaminations de qualité limitée ?  
The Conversation, 2022 [.www](#)
- V3 P. Abry, P. Flandrin, D. Veitch,  
Phénomènes d'invariance d'échelle dans l'Internet (version révisée de [V2]),  
Les Dossiers de La Recherche, No. 46, pp. 52-55, décembre 2011.
- V2 P. Abry, P. Flandrin, D. Veitch,  
Internet : comment réguler le trafic ?  
La Recherche, 384, mars 2005, pp. 50-53. [.www](#) [.pdf](#)
- V1 P. Abry, R. Baraniuk, P. Flandrin, R. Riedi, D. Veitch,  
Multiscale Network Traffic Analysis, Modeling, and Inference Using Wavelets, Multifractals, and Cascades,  
IEEE Signal Processing Magazine 19(3):28-46, May 2002. [.pdf](#)

# 3 Peer-Reviewed International Journal Articles (133)

## 3.1 Peer-Reviewed International Electronic Journal Articles (2)

- E2 P. Ciuciu, G. Varoquaux, P. Abry, S. Sadaghiani, A. Kleinschmidt,  
Scale-free and multifractal dynamic properties of fMRI signals during rest and task,  
Frontiers in Physiology, 3(186), 2012 [.www](#) [.pdf](#)
- E1 Souza Neto E.P., Abry P., Frutoso J., Flandrin P., Gharib C. Monitoring heart rate variability adds a significant incremental value in cardiovascular surgery. Society of Cardiovascular Anesthesiologists newsletter. 2006, [.www](#)

### 3.2 Peer-Reviewed International Paper Journal Articles (131)

- A131 Miloshevich, G., Cozian, B., Abry, P., Borgnat, P., Bouchet, F. (2023).  
Probabilistic forecasts of extreme heatwaves using convolutional neural networks in a regime of lack of data.  
Physical Review Fluids, 8(4), 040501. [.pdf](#)
- A130 Fort, G., Pascal, B., Abry, P., Pustelnik, N. (2023).  
Covid19 reproduction number: Credibility intervals by blockwise proximal monte carlo samplers.  
IEEE Transactions on Signal Processing. [.pdf](#)
- A129 Lengyel, J., Roux, S., Sémécurbe, F., Jaffard, S., Abry, P. (2023).  
Roughness and intermittency within metropolitan regions-Application in three French conurbations.  
Environment and Planning B: Urban Analytics and City Science, 50(3), 600-620. [.pdf](#)
- A128 Abry, P., Boniece, B.C., Didier, G., Wendt, H. (2023).  
Wavelet eigenvalue regression in high dimensions.  
Statistical Inference for Stochastic Processes 26(1), 1-32. [.pdf](#)
- A127 Guichard, E., Abry, P.. (2022).  
Mesure, estimation et représentations de la Covid-19.  
Annales des mines - Série Responsabilité et environnement. [.pdf](#)
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- A125 Lucas, C.-G., Pascal, B., Pustelnik, N., Abry, P. (2022).  
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- A122 Abry, P., Bastidon, C., Borgnat, P., Jensen, P., Parent, A. (2022).  
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Frontiers in Physics.

- A121 Jacques-Dumas, V., Ragone, F., Borgnat, P., Abry, P., Bouchet, F. (2021).  
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- A120 Abry, P., Mauduit, V., Quemener, E., Roux, S. (2022).  
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