Stephane Mallat

List of Publications by Year in descending order

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STEDHANE ΜΑΙΙΑΤ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Particle gradient descent model for point process generation. Statistics and Computing, 2022, 32, . | 1.5 | Ο |
| 2 | Maximum entropy models from phase harmonic covariances. Applied and Computational Harmonic Analysis, 2021, 53, 199-230. | 2.2 | 13 |
| 3 | Phase harmonic correlations and convolutional neural networks. Information and Inference, 2020, 9, 721-747. | 1.6 | 14 |
| 4 | Machine learning surrogate models for prediction of point defect vibrational entropy. Physical Review Materials, 2020, 4, . | 2.4 | 9 |
| 5 | The Quijote Simulations. Astrophysical Journal, Supplement Series, 2020, 250, 2. | 7.7 | 149 |
| 6 | Multiscale sparse microcanonical models. Mathematical Statistics and Learning, 2019, 1, 257-315. | 1.2 | 18 |
| 7 | Joint Time–Frequency Scattering. IEEE Transactions on Signal Processing, 2019, 67, 3704-3718. | 5.3 | 29 |
| 8 | Solid harmonic wavelet scattering for predictions of molecule properties. Journal of Chemical Physics, 2018, 148, 241732. | 3.0 | 47 |
| 9 | Wavelet Scattering Regression of Quantum Chemical Energies. Multiscale Modeling and Simulation, 2017, 15, 827-863. | 1.6 | 65 |
| 10 | Deep Haar scattering networks. Information and Inference, 2016, 5, 105-133. | 1.6 | 14 |
| 11 | Rigid Motion Model for Audio Source Separation. IEEE Transactions on Signal Processing, 2016, 64, 1822-1831. | 5.3 | 9 |
| 12 | Understanding deep convolutional networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150203. | 3.4 | 358 |
| 13 | Intermittent process analysis with scattering moments. Annals of Statistics, 2015, 43, . | 2.6 | 34 |
| 14 | Joint time-frequency scattering for audio classification. , 2015, , . | | 20 |
| 15 | Manifold Learning for Latent Variable Inference in Dynamical Systems. IEEE Transactions on Signal Processing, 2015, 63, 3843-3856. | 5.3 | 41 |
| 16 | Audio source separation with time-frequency velocities. , 2014, , . | | 6 |
| 17 | Deep Scattering Spectrum. IEEE Transactions on Signal Processing, 2014, 62, 4114-4128. | 5.3 | 359 |
| 18 | Scattering Transform for Intrapartum Fetal Heart Rate Variability Fractal Analysis: A Case-Control Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 1100-1108. | 4.2 | 54 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Rotation, Scaling and Deformation Invariant Scattering for Texture Discrimination. , 2013, , . | | 217 |
| 20 | Scattering transform for intrapartum fetal heart rate characterization and acidosis detection. , 2013, 2013, 2898-901. | | 4 |
| 21 | Invariant Scattering Convolution Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1872-1886. | 13.9 | 991 |
| 22 | Group Invariant Scattering. Communications on Pure and Applied Mathematics, 2012, 65, 1331-1398. | 3.1 | 554 |
| 23 | Classification with scattering operators. , 2011, , . | | 76 |
| 24 | Super-Resolution With Sparse Mixing Estimators. IEEE Transactions on Image Processing, 2010, 19, 2889-2900. | 9.8 | 251 |
| 25 | Geometrical grouplets. Applied and Computational Harmonic Analysis, 2009, 26, 161-180. | 2.2 | 94 |
| 26 | Orthogonal bandelet bases for geometric images approximation. Communications on Pure and Applied Mathematics, 2008, 61, 1173-1212. | 3.1 | 65 |
| 27 | A review of Bandlet methods for geometrical image representation. Numerical Algorithms, 2007, 44, 205-234. | 1.9 | 115 |
| 28 | Surface compression with geometric bandelets. ACM Transactions on Graphics, 2005, 24, 601-608. | 7.2 | 133 |
| 29 | Sparse geometric image representations with bandelets. IEEE Transactions on Image Processing, 2005, 14, 423-438. | 9.8 | 711 |
| 30 | Surface compression with geometric bandelets. , 2005, , . | | 25 |
| 31 | Foveal detection and approximation for singularities. Applied and Computational Harmonic Analysis, 2003, 14, 133-180. | 2.2 | 13 |
| 32 | Wavelet Foveation. Applied and Computational Harmonic Analysis, 2000, 9, 312-335. | 2.2 | 53 |
| 33 | Adaptive Time-Frequency Approximations with Matching Pursuits. Wavelet Analysis and Its Applications, 1994, 5, 271-293. | 0.2 | 15 |