

Stefan Wiefels

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

447
citations

1040056

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h-index

1474206

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12
all docs

12
docs citations

12
times ranked

568
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Standards for the Characterization of Endurance in Resistive Switching Devices. ACS Nano, 2021, 15, 17214-17231. | 14.6 | 128 |
| 2 | Interfacial Metal–Oxide Interactions in Resistive Switching Memories. ACS Applied Materials & Interfaces, 2017, 9, 19287-19295. | 8.0 | 103 |
| 3 | Processes and Effects of Oxygen and Moisture in Resistively Switching TaO _x and HfO _x . Advanced Electronic Materials, 2018, 4, 1700458. | 5.1 | 85 |
| 4 | HRS Instability in Oxide-Based Bipolar Resistive Switching Cells. IEEE Transactions on Electron Devices, 2020, 67, 4208-4215. | 3.0 | 32 |
| 5 | Impact of the Ohmic Electrode on the Endurance of Oxide-Based Resistive Switching Memory. IEEE Transactions on Electron Devices, 2021, 68, 1024-1030. | 3.0 | 26 |
| 6 | Comprehensive model for the electronic transport in Pt/SrTiO_3 analog memristive devices. Physical Review B, 2020, 102, . | 3.2 | 20 |
| 7 | A Consistent Model for Short-Term Instability and Long-Term Retention in Filamentary Oxide-Based Memristive Devices. ACS Applied Materials & Interfaces, 2021, 13, 58066-58075. | 8.0 | 19 |
| 8 | Intrinsic RESET Speed Limit of Valence Change Memories. ACS Applied Electronic Materials, 2021, 3, 5563-5572. | 4.3 | 15 |
| 9 | Reliability aspects of binary vector-matrix-multiplications using ReRAM devices. Neuromorphic Computing and Engineering, 2022, 2, 034001. | 5.9 | 14 |
| 10 | Statistical Modeling and Understanding of HRS Retention in 2.5 Mb HfO ₂ based ReRAM. , 2020, , . | | 5 |
| 11 | Reliability Aspects of Memristive Devices for Computation-in-Memory Applications. , 2021, , . | | 0 |
| 12 | NEUROTEC I: Neuro-inspired Artificial Intelligence Technologies for the Electronics of the Future. , 2022, , . | | 0 |