

Jeffrey A Davis

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

371
citations

1937685

4
h-index

1474206

9
g-index

10
all docs

10
docs citations

10
times ranked

488
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Limits on Silicon Nanoelectronics for Terascale Integration. <i>Science</i> , 2001, 293, 2044-2049. | 12.6 | 324 |
| 2 | Design and Optimization of On-Chip Interconnects Using Wave-Pipelined Multiplexed Routing. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2007, 15, 990-1002. | 3.1 | 15 |
| 3 | Optimal Voltage Scaling, Repeater Insertion, and Wire Sizing for Wave-Pipelined Global Interconnects. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 1023-1030. | 5.4 | 11 |
| 4 | Decreased Effectiveness of On-Chip Decoupling Capacitance in High-Frequency Operation. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2007, 15, 649-659. | 3.1 | 9 |
| 5 | Fractal Electrode Formation in Metal-Insulator Composites Near the Percolation Threshold. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 725-733. | 2.0 | 4 |
| 6 | Energy Density Limits of Multiphase Composites With Dielectric Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 250-260. | 2.0 | 3 |
| 7 | Permittivity Characterization of Dielectric Surfaces Using Nanofabricated In-Plane Capacitors. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4033-4038. | 3.0 | 2 |
| 8 | Impact of Microstructure on Dielectric Nanocomposites With High- <i>k</i> Interfacial Layers. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 717-725. | 2.0 | 1 |
| 9 | Breakdown Field Strength Variations and Energy Density Limits of Nanoparticle Composite Materials. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 811-819. | 2.0 | 1 |
| 10 | Interfacial Permittivity Characterization of Heterogeneous Dielectric Bi-Layers. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1950-1955. | 3.0 | 1 |