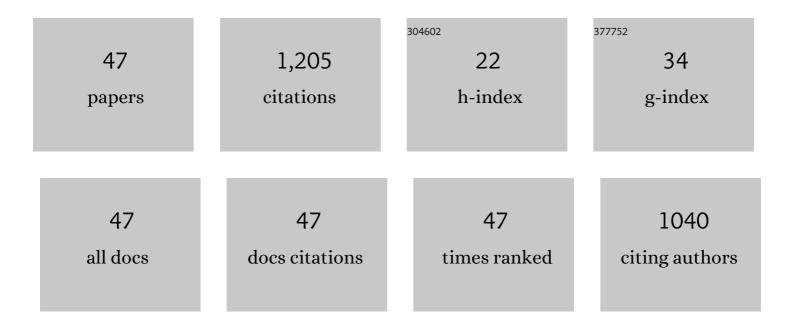
Fei Zhou

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/12052358/publications.pdf Version: 2024-02-01



FEI 7HOU

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Demonstration of Synaptic Behaviors and Resistive Switching Characterizations by Proton Exchange Reactions in Silicon Oxide. Scientific Reports, 2016, 6, 21268. | 1.6 | 84 |
| 2 | Intrinsic SiOx-based unipolar resistive switching memory. II. Thermal effects on charge transport and characterization of multilevel programing. Journal of Applied Physics, 2014, 116, . | 1.1 | 83 |
| 3 | Understanding the resistive switching characteristics and mechanism in active SiOx-based resistive switching memory. Journal of Applied Physics, 2012, 112, . | 1.1 | 72 |
| 4 | Effects of barrier layers on device performance of high mobility In0.7Ga0.3As metal-oxide-semiconductor field-effect-transistors. Applied Physics Letters, 2010, 96, . | 1.5 | 66 |
| 5 | Electroforming and resistive switching in silicon dioxide resistive memory devices. RSC Advances, 2015, 5, 21215-21236. | 1.7 | 59 |
| 6 | Intrinsic SiOx-based unipolar resistive switching memory. I. Oxide stoichiometry effects on reversible switching and program window optimization. Journal of Applied Physics, 2014, 116, . | 1.1 | 55 |
| 7 | Sub-50-nm \$hbox{In}_{0.7}hbox{Ga}_{0.3}hbox{As}\$ MOSFETs With Various Barrier Layer Materials. IEEE Electron Device Letters, 2012, 33, 32-34. | 2.2 | 51 |
| 8 | Memory switching properties of e-beam evaporated SiOx on N++ Si substrate. Applied Physics Letters, 2012, 100, . | 1.5 | 48 |
| 9 | Study of polarity effect in SiO _x -based resistive switching memory. Applied Physics Letters, 2012, 101, 052111. | 1.5 | 47 |
| 10 | Effects of gate-first and gate-last process on interface quality of In0.53Ga0.47As metal-oxide-semiconductor capacitors using atomic-layer-deposited Al2O3 and HfO2 oxides. Applied Physics Letters, 2009, 95, . | 1.5 | 42 |
| 11 | Stabilization of multiple resistance levels by current-sweep in SiOx-based resistive switching memory. Applied Physics Letters, 2015, 106, . | 1.5 | 41 |
| 12 | InAs inserted InGaAs buried channel metal-oxide-semiconductor field-effect-transistors with atomic-layer-deposited gate dielectric. Applied Physics Letters, 2011, 98, . | 1.5 | 36 |
| 13 | Study of self-compliance behaviors and internal filament characteristics in intrinsic SiOx-based resistive switching memory. Applied Physics Letters, 2016, 108, . | 1.5 | 35 |
| 14 | Improved electrical characteristics of TaN/Al2O3/In0.53Ga0.47As metal-oxide-semiconductor field-effect transistors by fluorine incorporation. Applied Physics Letters, 2009, 95, 013501. | 1.5 | 33 |
| 15 | Dynamic conductance characteristics in HfO _x -based resistive random access memory. RSC Advances, 2017, 7, 12984-12989. | 1.7 | 32 |
| 16 | Oxygen-induced bi-modal failure phenomenon in SiOx-based resistive switching memory. Applied Physics Letters, 2013, 103, 033521. | 1.5 | 30 |
| 17 | Improving the on-current of In0.7Ga0.3As tunneling field-effect-transistors by p++/n+ tunneling junction. Applied Physics Letters, 2011, 98, . | 1.5 | 26 |
| 18 | Investigation of edge- and bulk-related resistive switching behaviors and backward-scan effects in SiO _x -based resistive switching memory. Applied Physics Letters, 2013, 103, 193508. | 1.5 | 26 |

Fei Zhou

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Tristate Operation in Resistive Switching of \$ hbox{SiO}_{2}\$ Thin Films. IEEE Electron Device Letters, 2012, 33, 1702-1704. | 2.2 | 25 |
| 20 | Fluorinated HfO2 gate dielectric engineering on In0.53Ga0.47As metal-oxide-semiconductor field-effect-transistors. Applied Physics Letters, 2010, 96, . | 1.5 | 24 |
| 21 | Effects of fluorine incorporation into HfO2 gate dielectrics on InP and In0.53Ga0.47As metal-oxide-semiconductor field-effect-transistors. Applied Physics Letters, 2010, 96, 253502. | 1.5 | 24 |
| 22 | Bidirectional voltage biased implication operations using SiOx based unipolar memristors. Applied Physics Letters, 2015, 107, 183501. | 1.5 | 22 |
| 23 | Effect of hydrogen/deuterium incorporation on electroforming voltage of SiOx resistive random access memory. Applied Physics Letters, 2012, 101, . | 1.5 | 20 |
| 24 | Effects of sidewall etching on electrical properties of SiOx resistive random access memory. Applied Physics Letters, 2013, 103, 213505. | 1.5 | 20 |
| 25 | High-k InGaAs metal-oxide-semiconductor field-effect-transistors with various barrier layer materials. Applied Physics Letters, 2011, 99, 033507. | 1.5 | 19 |
| 26 | A study of the interfacial resistive switching mechanism by proton exchange reactions on the SiO _x layer. Physical Chemistry Chemical Physics, 2016, 18, 700-703. | 1.3 | 19 |
| 27 | Discussion on device structures and hermetic encapsulation for SiOx random access memory operation in air. Applied Physics Letters, 2014, 105, . | 1.5 | 17 |
| 28 | Characterization of external resistance effect and performance optimization in unipolar-type SiOx-based resistive switching memory. Applied Physics Letters, 2014, 105, . | 1.5 | 16 |
| 29 | Nonplanar InGaAs Gate Wrapped Around Field-Effect Transistors. IEEE Transactions on Electron Devices, 2014, 61, 2332-2337. | 1.6 | 16 |
| 30 | Improved Electrical Properties of HfO2-Based Gate Dielectrics on InP Substrate Using Al2O3/HfO2 and SF6 Plasma Treatment. Electrochemical and Solid-State Letters, 2011, 14, H291. | 2.2 | 14 |
| 31 | Physical and Electrical Analysis of Post-\$ hbox{HfO}_{2}\$ Fluorine Plasma Treatment for the Improvement of \$hbox{In}_{0.53}hbox{Ga}_{0.47}hbox{As}\$ MOSFETs' Performance. IEEE Transactions on Electron Devices, 2012, 59, 139-144. | 1.6 | 13 |
| 32 | Effects of Fluorine Incorporation on the Electrical Properties of Atomic-Layer-Deposited Al[sub 2]O[sub 3] Gate Dielectric on InP Substrate. Journal of the Electrochemical Society, 2010, 157, G71. | 1.3 | 11 |
| 33 | Impact of SF6 plasma treatment on performance of TaN–HfO2–InP metal-oxide-semiconductor field-effect transistor. Applied Physics Letters, 2011, 98, 043506. | 1.5 | 10 |
| 34 | Channel Thickness Dependence of InGaAs Quantum-Well Field-Effect Transistors With High- \$kappa\$ Gate Dielectrics. IEEE Electron Device Letters, 2012, 33, 1255-1257. | 2.2 | 10 |
| 35 | Random Process of Filamentary Growth and Localized Switching Mechanism in Resistive Switching of SiO _x Thin Films. ECS Journal of Solid State Science and Technology, 2012, 1, P148-P151. | 0.9 | 9 |
| 36 | Study of SiO <inf>x</inf> -based complementary resistive switching memristor. , 2012, , . | | 9 |

Fei Zhou

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Comprehensive trap-level study in SiO <inf>x</inf> -based resistive switching memory. , 2013, , | | 9 |
| 38 | HfO2 dielectrics engineering using low power SF6 plasma on InP and In0.53Ga0.47As metal-oxide-semiconductor field-effect-transistors. Applied Physics Letters, 2012, 100, 243508. | 1.5 | 6 |
| 39 | Optimization of Fluorine Plasma Treatment for Interface Improvement on HfO2/In0.53Ga0.47As MOSFETs. Applied Sciences (Switzerland), 2012, 2, 233-244. | 1.3 | 6 |
| 40 | Effects of InP barrier layer thicknesses and different ALD oxides on device performance of In <inf>0.7</inf> Ga <inf>0.3</inf> As MOSFETs. , 2010, , . | | 5 |
| 41 | Effect of indium concentration on InGaAs channel metal-oxide-semiconductor field-effect transistors with atomic layer deposited gate dielectric. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, . | 0.6 | 3 |
| 42 | III-V Gate-wrap-around field-effect-transistors with high-k gate dielectrics. , 2014, , . | | 3 |
| 43 | Study of SiO <inf>x</inf> -based resistive switching memory (ReRAM) in integrated one diode — One resistor (1D-1R) architecture. , 2015, , . | | 3 |
| 44 | Effects of SF ₆ plasma treatment on electrical characteristics of TaN-Al ₂ O ₃ -InP metal-oxide-semiconductor field-effect transistor. Applied Physics Letters, 2012, 101, 063505. | 1.5 | 2 |
| 45 | Resistive switching characteristics and mechanisms in silicon oxide memory devices. ChemistrySelect, 2016, 1, . | 0.7 | 2 |
| 46 | Review of Recently Progress on Neural Electronics and Memcomputing Applications in Intrinsic SiOx-Based Resistive Switching Memory. , 2018, , . | | 2 |
| 47 | A synaptic device built in one diode–one resistor (1D–1R) architecture with intrinsic SiOx-based resistive switching memory. ChemistrySelect, 2016, 1 | 0.7 | 0 |