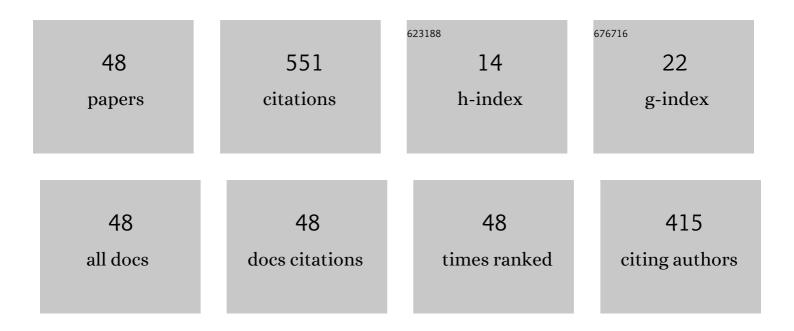
## Xing Zhou

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Exploring the novel characteristics of hetero-material gate field-effect transistors (HMGFETs) with gate-material engineering. IEEE Transactions on Electron Devices, 2000, 47, 113-120.	1.6	89
2	Investigation of Low-Frequency Noise in Silicon Nanowire MOSFETs in the Subthreshold Region. IEEE Electron Device Letters, 2009, 30, 668-671.	2.2	43
3	A Compact Model for Undoped Silicon-Nanowire MOSFETs With Schottky-Barrier Source/Drain. IEEE Transactions on Electron Devices, 2009, 56, 1100-1109.	1.6	40
4	Surface-Potential Solution for Generic Undoped MOSFETs With Two Gates. IEEE Transactions on Electron Devices, 2007, 54, 169-172.	1.6	32
5	Rigorous Surface-Potential Solution for Undoped Symmetric Double-Gate MOSFETs Considering Both Electrons and Holes at Quasi NonEquilibrium. IEEE Transactions on Electron Devices, 2008, 55, 616-623.	1.6	31
6	A Comprehensive Compact Model for GaN HEMTs, Including Quasi-Steady-State and Transient Trap-Charge Effects. IEEE Transactions on Electron Devices, 2016, 63, 1478-1485.	1.6	30
7	A general approach to compact threshold voltage formulation based on 2D numerical simulation and experimental correlation for deep-submicron ULSI technology development [CMOS]. IEEE Transactions on Electron Devices, 2000, 47, 214-221.	1.6	27
8	Subcircuit Compact Model for Dopant-Segregated Schottky Gate-All-Around Si-Nanowire MOSFETs. IEEE Transactions on Electron Devices, 2010, 57, 772-781.	1.6	25
9	A Compact Model Satisfying Gummel Symmetry in Higher Order Derivatives and Applicable to Asymmetric MOSFETs. IEEE Transactions on Electron Devices, 2008, 55, 624-631.	1.6	24
10	Impact of Gate Electrodes on \$hbox{1}/f\$ Noise of Gate-All-Around Silicon Nanowire Transistors. IEEE Electron Device Letters, 2009, 30, 1081-1083.	2.2	24
11	Unified MOSFET compact I-V model formulation through physics-based effective transformation. IEEE Transactions on Electron Devices, 2001, 48, 887-896.	1.6	22
12	Investigation of Low-Frequency Noise in N-Channel FinFETs From Weak to Strong Inversion. IEEE Transactions on Electron Devices, 2009, 56, 2800-2810.	1.6	22
13	Effect of substrate doping on the capacitance-Voltage characteristics of strained-silicon pMOSFETs. IEEE Electron Device Letters, 2006, 27, 62-64.	2.2	17
14	Physics-Based Single-Piece Charge Model for Strained-Si MOSFETs. IEEE Transactions on Electron Devices, 2005, 52, 1555-1562.	1.6	16
15	Unification of MOS compact models with the unified regional modeling approach. Journal of Computational Electronics, 2011, 10, 121-135.	1.3	13
16	Test Structure for Characterization of Low-Frequency Noise in CMOS Technologies. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1860-1865.	2.4	12
17	Quasi-Ballistic Transport Model for Graphene Field-Effect Transistor. IEEE Transactions on Electron Devices, 2013, 60, 2410-2414.	1.6	11
18	In0.49Ga0.51P/GaAs heterojunction bipolar transistors (HBTs) on 200 mm Si substrates: Effects of base thickness, base and sub-collector doping concentrations. AIP Advances, 2018, 8, 115132.	0.6	10

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19	Numerical physics of subpicosecond electrical pulse generation by nonuniform gap illumination. IEEE Journal of Quantum Electronics, 1996, 32, 1672-1679.	1.0	8
20	Source–Drain Symmetry in Unified Regional MOSFET Model. IEEE Electron Device Letters, 2004, 25, 311-313.	2.2	7
21	Extraction of physical parameters of strainedsilicon MOSFETs from C-V measurement. , 0, , .		5
22	The missing link to seamless simulation. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2003, 19, 9-17.	0.8	4
23	Implicit Analytical Surface/Interface Potential Solutions for Modeling Strained-Si MOSFETs. IEEE Transactions on Electron Devices, 2006, 53, 3110-3117.	1.6	4
24	Compact Zero-Temperature Coefficient Modeling Approach for MOSFETs Based on Unified Regional Modeling of Surface Potential. IEEE Transactions on Electron Devices, 2013, 60, 2164-2170.	1.6	4
25	Floating-Body Effect in Partially/Dynamically/Fully Depleted DG/SOI MOSFETs Based on Unified Regional Modeling of Surface and Body Potentials. IEEE Transactions on Electron Devices, 2014, 61, 333-341.	1.6	4
26	Compact Fermi potential model for heterostructure HEMTs with rectangular quantum well. , 2014, , .		4
27	Atomistic modeling of the electrostatic and transport properties ofÂaÂsimplified nanoscale field effect transistor. Journal of Computational Electronics, 2008, 7, 500-508.	1.3	3
28	GaN HEMT compact model for circuit simulation. , 2015, , .		3
29	Numerical investigation of subpicosecond electrical pulse generation by edge illumination of silicon transmission-line gaps. IEEE Journal of Quantum Electronics, 1998, 34, 171-178.	1.0	2
30	Unified regional modeling of GaN HEMTs with the 2DEG and DD formalism. , 2012, , .		2
31	Quasi-2D Surface-Potential-Based Critical Length for Drift-Diffusion. IEEE Electron Device Letters, 2016, 37, 1051-1054.	2.2	2
32	Impact of Subthreshold Carrier Statistics on the Low-Frequency Noise in MOSFETs. IEEE Transactions on Electron Devices, 2017, 64, 1702-1707.	1.6	2
33	Monolithic III-V/CMOS Co-integrated Technology, Scalable Compact Modeling, and Hybrid Circuit Design. , 2018, , .		2
34	High-Frequency Characteristics of InGaP/GaAs Double Heterojunction Bipolar Transistor Epitaxially Grown on 200 mm Ge/Si Wafers. IEEE Journal of the Electron Devices Society, 2020, 8, 122-125.	1.2	2
35	Effect of metal work function on the DC characteristics of an asymmetric MOSFET with Schottky-based source. , 2016, , .		1
36	Unified regional fermi-potential-based compact model for double heterostructure HEMTs. , 2016, , .		1

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#	Article	IF	CITATIONS
37	Analytical models for channel potential and drain current in AlGaN/GaN HEMT devices. , 2017, , .		1
38	Reduction of Current Collapse in GaN (MIS)-HEMTs Using Dual Material Gate. , 2019, , .		1
39	Hybrid III–V/Si-CMOS PDK for Monolithic Heterogeneously-Integrated III–V/Si Technology Platforms. , 2020, , .		1
40	Unified Compact Modeling of Emerging Multiple-Gate MOSFETs. , 2007, , .		0
41	The temperature dependent TCAD and SPICE modeling of AlGaN/GaN HEMTs. , 2013, , .		0
42	Compact modeling of III–V/Si FETs. , 2014, , .		0
43	Compact electrical/optical model for InGaN/GaN quantum-well based LEDs. , 2015, , .		Ο
44	An on-chip integrated III–V / CMOS 125MSps 6-bit SAR ADC. , 2016, , .		0
45	Unified HEMT/CMOS compact models for future heterogeneous III–V/Si co-integrated technology. , 2016, , .		Ο
46	A New Interpretation for the Anomalous Channel-Length Dependence of Low-Frequency Noise in Quasi-Ballistic Transistors. IEEE Electron Device Letters, 2017, 38, 1113-1116.	2.2	0
47	Monolithic Co-integration of III-V Materials into Foundry Si-CMOS in a Single Chip for Novel Integrated Circuits. , 2019, , .		0
48	Enabling Monolithic Heterogeneously Integrated Si/III-V Technology Platform. , 2021, , .		0