

# Dragica Vasileska

## List of Publications by Year in descending order

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141  
papers

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257101

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142  
all docs

142  
docs citations

142  
times ranked

1386  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the performance limits for Si MOSFETs: a theoretical study. IEEE Transactions on Electron Devices, 2000, 47, 232-240.	1.6	197
2	Lead-Orientation-Dependent Wave Function Scarring in Open Quantum Dots. Physical Review Letters, 1999, 82, 4691-4694.	2.9	131
3	Modeling Thermal Effects in Nanodevices. IEEE Transactions on Electron Devices, 2008, 55, 1306-1316.	1.6	107
4	A novel approach for introducing the electron-electron and electron-impurity interactions in particle-based simulations. IEEE Electron Device Letters, 1999, 20, 463-465.	2.2	102
5	Scaled silicon MOSFETs: degradation of the total gate capacitance. IEEE Transactions on Electron Devices, 1997, 44, 584-587.	1.6	86
6	Electron Mobility in Silicon Nanowires. IEEE Nanotechnology Magazine, 2007, 6, 113-117.	1.1	76
7	Narrow-Width SOI Devices: The Role of Quantum Mechanical Size Quantization Effect and Unintentional Doping on the Device Operation. IEEE Transactions on Electron Devices, 2005, 52, 227-236.	1.6	56
8	Quantum Transport Simulation of Experimentally Fabricated Nano-FinFET. IEEE Transactions on Electron Devices, 2007, 54, 784-796.	1.6	55
9	Ultrasmall MOSFETs: the importance of the full Coulomb interaction on device characteristics. IEEE Transactions on Electron Devices, 2000, 47, 1831-1837.	1.6	54
10	Self-Heating Effects in Nanoscale FD SOI Devices: The Role of the Substrate, Boundary Conditions at Various Interfaces, and the Dielectric Material Type for the BOX. IEEE Transactions on Electron Devices, 2009, 56, 3064-3071.	1.6	47
11	An ensemble Monte Carlo study of high-field transport in $\hat{1}^2$ -SiC. Physica B: Condensed Matter, 1993, 185, 466-470.	1.3	41
12	Wigner quasi-particle attributes An asymptotic perspective. Applied Physics Letters, 2013, 102, .	1.5	38
13	Scaled silicon MOSFET's: universal mobility behavior. IEEE Transactions on Electron Devices, 1997, 44, 577-583.	1.6	37
14	Modeling heating effects in nanoscale devices: the present and the future. Journal of Computational Electronics, 2008, 7, 66-93.	1.3	34
15	Is SOD Technology the Solution to Heating Problems in SOI Devices?. IEEE Electron Device Letters, 2008, 29, 621-624.	2.2	34
16	3D Simulations of Ultra-small MOSFETs with Real-space Treatment of the Electron Electron and Electron-ion Interactions. VLSI Design, 2000, 10, 437-452.	0.5	33
17	Electrothermal Studies of FD SOI Devices That Utilize a New Theoretical Model for the Temperature and Thickness Dependence of the Thermal Conductivity. IEEE Transactions on Electron Devices, 2010, 57, 726-728.	1.6	30
18	Collision-duration time for optical-phonon emission in semiconductors. Physical Review B, 1996, 53, 3846-3855.	1.1	27

#	ARTICLE	IF	CITATIONS
19	Weak localization in ballistic quantum dots. <i>Physical Review B</i> , 1999, 60, 2680-2690.	1.1	27
20	Three-dimensional simulations of ultrasmall metal-oxide-semiconductor field-effect transistors: The role of the discrete impurities on the device terminal characteristics. <i>Journal of Applied Physics</i> , 2002, 91, 3737-3740.	1.1	27
21	Impact of strong quantum confinement on the performance of a highly asymmetric device structure: Monte Carlo particle-based simulation of a focused-ion-beam MOSFET. <i>IEEE Transactions on Electron Devices</i> , 2002, 49, 1019-1026.	1.6	26
22	Approaching Optimal Characteristics of 10-nm High-Performance Devices: A Quantum Transport Simulation Study of Si FinFET. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 743-753.	1.6	26
23	Importance of the Gate-Dependent Polarization Charge on the Operation of GaN HEMTs. <i>IEEE Transactions on Electron Devices</i> , 2009, 56, 998-1006.	1.6	26
24	Physical scales in the Wigner-Boltzmann equation. <i>Annals of Physics</i> , 2013, 328, 220-237.	1.0	25
25	GaN Vertical-Channel Junction Field-Effect Transistors With Regrown p-GaN by MOCVD. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3972-3977.	1.6	25
26	Diffusive Transport in Quasi-2D and Quasi-1D Electron Systems. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 1725-1753.	0.4	24
27	Parameter-Free Effective Potential Method for Use in Particle-Based Device Simulations. <i>IEEE Nanotechnology Magazine</i> , 2005, 4, 465-471.	1.1	23
28	Transport in the surface channel of strained Si on a relaxed Si <sub>1-x</sub> Ge <sub>x</sub> substrate. <i>Solid-State Electronics</i> , 1997, 41, 879-885.	0.8	22
29	EFFECTIVE POTENTIALS AND QUANTUM FLUID MODELS: A THERMODYNAMIC APPROACH. <i>International Journal of High Speed Electronics and Systems</i> , 2003, 13, 771-801.	0.3	22
30	Monte Carlo particle-based simulations of deep-submicron n-MOSFETs with real-space treatment of electron-electron and electron-impurity interactions. <i>Superlattices and Microstructures</i> , 2000, 27, 147-157.	1.4	21
31	Study of a 50 nm nMOSFET by ensemble Monte Carlo simulation including a new approach to surface roughness and impurity scattering in the Si inversion layer. <i>IEEE Transactions on Electron Devices</i> , 2002, 49, 125-132.	1.6	21
32	Computational electronics. <i>Materials Science and Engineering Reports</i> , 2002, 38, 181-236.	14.8	21
33	Simulation of the Impact of Process Variation on the Optimized 10-nm FinFET. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 2134-2141.	1.6	21
34	Electrothermal Monte Carlo Simulation of GaN HEMTs Including Electron-Electron Interactions. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 562-570.	1.6	21
35	Semiconductor Device Modeling. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 999-1030.	0.4	18
36	Modeling Coulomb Effects in Nanoscale Devices. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 1793-1827.	0.4	17

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37	Current progress in modeling self-heating effects in FD SOI devices and nanowire transistors. Journal of Computational Electronics, 2012, 11, 238-248.	1.3	17
38	Numerical Simulation of Copper Migration in Single Crystal CdTe. IEEE Journal of Photovoltaics, 2016, 6, 1286-1291.	1.5	17
39	Semi-discrete 2D Wigner-particle approach. Journal of Computational Electronics, 2008, 7, 222-225.	1.3	16
40	Metastability and reliability of CdTe solar cells. Journal Physics D: Applied Physics, 2018, 51, 153002.	1.3	16
41	Modeling of $\hat{I}^2$ -SiC MESFETs using hydrodynamic equations. Solid-State Electronics, 1993, 36, 1289-1294.	0.8	15
42	Modeling of FinFET: 3D MC Simulation Using FMM and Unintentional Doping Effects on Device Operation. Journal of Computational Electronics, 2004, 3, 337-340.	1.3	14
43	Is self-heating responsible for the current collapse in GaN HEMTs?. Journal of Computational Electronics, 2012, 11, 129-136.	1.3	14
44	An Effective Potential Approach to Modeling 25 nm MOSFET Devices. Journal of Computational Electronics, 2003, 2, 113-117.	1.3	13
45	Understanding Transport in Hole Contacts of Silicon Heterojunction Solar Cells by Simulating TLM Structures. IEEE Journal of Photovoltaics, 2020, 10, 363-371.	1.5	13
46	Spatial profiles of photon chemical potential in near-field thermophotovoltaic cells. Journal of Applied Physics, 2021, 129, .	1.1	13
47	Hole transport in selenium semiconductors using density functional theory and bulk Monte Carlo. Journal of Applied Physics, 2018, 124, .	1.1	12
48	Stability of regular orbits in ballistic quantum dots. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 120-124.	0.9	11
49	The influence of space quantization effects on the threshold voltage, inversion layer and total gate capacitances in scaled Si-MOSFETs. Nanotechnology, 1999, 10, 192-197.	1.3	11
50	Impact of electronic density of states on electroluminescence refrigeration. Solid-State Electronics, 2007, 51, 1387-1390.	0.8	11
51	Compact modeling and simulation of Random Telegraph Noise under non-stationary conditions in the presence of random dopants. Microelectronics Reliability, 2012, 52, 2955-2961.	0.9	11
52	Study of self-heating effects in SOI and conventional MOSFETs with electro-thermal particle-based device simulator. Journal of Computational Electronics, 2012, 11, 106-117.	1.3	11
53	Cryogenic Characterization and Analysis of Nanoscale SOI FETs Using a Virtual Source Model. IEEE Transactions on Electron Devices, 2022, 69, 1306-1312.	1.6	11
54	Carrier Transport in Nanodevices. Japanese Journal of Applied Physics, 1997, 36, 1841-1845.	0.8	10

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55	3D simulation of GaAs/AlGaAs quantum dot point contact structures. <i>Semiconductor Science and Technology</i> , 1998, 13, A37-A40.	1.0	10
56	Nonuniform energy level broadening in open quantum dots: the influence of the closed dot eigenstates on transport. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 745-749.	1.3	10
57	Title is missing!. <i>Journal of Computational Electronics</i> , 2002, 1, 453-465.	1.3	10
58	A Self-Consistent Event Biasing Scheme for Statistical Enhancement. <i>Journal of Computational Electronics</i> , 2004, 3, 305-309.	1.3	10
59	Contact block reduction method and its application to a 10 nm MOSFET device. <i>Semiconductor Science and Technology</i> , 2004, 19, S118-S121.	1.0	10
60	1/f Noise: threshold voltage and ON-current fluctuations in 45 nm device technology due to charged random traps. <i>Journal of Computational Electronics</i> , 2010, 9, 128-134.	1.3	10
61	Numerical modeling of silicon quantum dots. <i>Superlattices and Microstructures</i> , 1996, 20, 343-347.	1.4	9
62	Convergence Properties of the Bi-CGSTAB Method for the Solution of the 3D Poisson and 3D Electron Current Continuity Equations for Scaled Si MOSFETs. <i>VLSI Design</i> , 1998, 8, 301-305.	0.5	9
63	Single-electron quantum dots in silicon MOS structures. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 71, 415-421.	1.1	9
64	3D Monte-Carlo device simulations using an effective quantum potential including electron-electron interactions. <i>Journal of Computational Electronics</i> , 2007, 6, 15-18.	1.3	9
65	Cross-sectional dependence of electron mobility and lattice thermal conductivity in silicon nanowires. <i>Journal of Computational Electronics</i> , 2008, 7, 319-323.	1.3	9
66	Accurate Model for the Threshold Voltage Fluctuation Estimation in 45-nm Channel Length MOSFET Devices in the Presence of Random Traps and Random Dopants. <i>IEEE Electron Device Letters</i> , 2011, 32, 1044-1046.	2.2	9
67	Statistical analysis of the impact of charge traps in p-type MOSFETs via particle-based Monte Carlo device simulations. <i>Journal of Computational Electronics</i> , 2020, 19, 648-657.	1.3	9
68	Quantum transport in ballistic quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 3, 137-144.	1.3	8
69	Acoustic phonon scattering in silicon quantum dots. <i>Nanotechnology</i> , 1999, 10, 142-146.	1.3	8
70	Doping dependence of the mobility enhancement in surface-channel strained-Si layers. <i>Nanotechnology</i> , 1999, 10, 147-152.	1.3	8
71	Magneto-transport in corrugated quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 750-755.	1.3	8
72	The Effective Potential and Its Use in Simulation. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 226, 1-8.	0.7	8

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73	Subthreshold Electron Mobility in SOI MOSFETs and MESFETs. IEEE Transactions on Electron Devices, 2005, 52, 1622-1626.	1.6	8
74	Impact of RDF and RTS on the performance of SRAM cells. Journal of Computational Electronics, 2010, 9, 122-127.	1.3	8
75	Empirical pseudopotential band structure parameters of 4H-SiC using a genetic algorithm fitting routine. Superlattices and Microstructures, 2011, 49, 109-115.	1.4	8
76	PVRD-FASP: A Unified Solver for Modeling Carrier and Defect Transport in Photovoltaic Devices. IEEE Journal of Photovoltaics, 2019, 9, 1602-1613.	1.5	8
77	Title is missing!. Journal of Computational Electronics, 2002, 1, 179-183.	1.3	7
78	Effective potential approach to modeling of 25 nm MOSFET devices. Superlattices and Microstructures, 2003, 34, 311-317.	1.4	7
79	Electron-phonon interaction studies in an $\text{In}_{0.52}\text{Al}_{0.48}\text{As}/\text{In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ quantum well structure. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 19, 215-220.	1.3	7
80	Modelling of narrow-width SOI devices. Semiconductor Science and Technology, 2004, 19, S131-S133.	1.0	7
81	Ultrafast Wigner transport in quantum wires. Journal of Computational Electronics, 2007, 6, 235-238.	1.3	7
82	The role of the source and drain contacts on self-heating effect in nanowire transistors. Journal of Computational Electronics, 2010, 9, 180-186.	1.3	7
83	Modeling thermal effects in nano-devices. Microelectronic Engineering, 2013, 109, 163-167.	1.1	7
84	The impact of surface-roughness scattering on the low-field electron mobility in nano-scale Si MOSFETs. Journal of Applied Physics, 2017, 122, .	1.1	7
85	3-D Monte Carlo device simulator for variability modeling of p-MOSFETs. Journal of Computational Electronics, 2020, 19, 668-676.	1.3	7
86	Modeling of Submicron $\text{Si}_{1-x}\text{Ge}_x$ -Based MOSFETs by Self-Consistent Monte Carlo Simulation. Physica Status Solidi (B): Basic Research, 1997, 204, 531-533.	0.7	6
87	Zero field magnetoresistance peaks in open quantum dots: weak localization or a fundamental property?. Journal of Physics Condensed Matter, 1999, 11, 4657-4664.	0.7	6
88	The importance of thermal conductivity modeling for simulations of self-heating effects in FD SOI devices. Journal of Computational Electronics, 2013, 12, 601-610.	1.3	6
89	Kinetic Monte Carlo simulation of transport in amorphous silicon passivation layers in silicon heterojunction solar cells. Journal of Computational Electronics, 2019, 18, 1152-1161.	1.3	6
90	Quantum transport calculations for silicon inversion layers in MOS structures. Physica B: Condensed Matter, 1996, 227, 333-335.	1.3	5

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91	Transport in split-gate silicon quantum dots. Superlattices and Microstructures, 2000, 27, 373-376.	1.4	5
92	Green's function approach for transport calculation in a $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ modulation-doped heterostructure. Journal of Applied Physics, 2003, 93, 3359-3363.	1.1	5
93	Band-Structure and Quantum Effects on Hole Transport in p-MOSFETs. Journal of Computational Electronics, 2005, 4, 27-30.	1.3	5
94	Spin polarization in $\text{GaAs}/\text{Al}_{0.24}\text{Ga}_{0.76}\text{As}$ heterostructures. Molecular Simulation, 2005, 31, 797-800.	0.9	5
95	Self-consistent treatment of quantum transport in 10 nm FinFET using Contact Block Reduction (CBR) method. Journal of Computational Electronics, 2007, 6, 77-80.	1.3	5
96	Monte Carlo Solution of High Electric Field Hole Transport Processes in Avalanche Amorphous Selenium. ACS Omega, 2021, 6, 4574-4581.	1.6	5
97	Quantum Transport Simulation of the DOS function, Self-Consistent Fields and Mobility in MOS Inversion Layers. VLSI Design, 1998, 6, 21-25.	0.5	4
98	3D modeling of silicon quantum dots. Superlattices and Microstructures, 2000, 27, 377-382.	1.4	4
99	Self-Consistent Subband Structure and Mobility of Two Dimensional Holes in Strained SiGe MOSFETs. Journal of Computational Electronics, 2003, 2, 443-448.	1.3	4
100	Quantum Potential Approach to Modeling Nanoscale MOSFETs. Journal of Computational Electronics, 2005, 4, 57-61.	1.3	4
101	Low-temperature magnetotransport in ballistic quantum dots and wires. Semiconductor Science and Technology, 1998, 13, A15-A17.	1.0	3
102	Ultra-small MOSFETs: The Importance of the Full Coulomb Interaction on Device Characteristics. VLSI Design, 2001, 13, 75-78.	0.5	3
103	Monte Carlo particle-based simulation of FIBMOS: impact of strong quantum confinement on device performance. Physica B: Condensed Matter, 2002, 314, 386-390.	1.3	3
104	Role of quantization effects in the operation of ultrasmall MOSFETs and SOI device structures. Microelectronic Engineering, 2002, 63, 233-240.	1.1	3
105	Green's function approach for transport calculation in a $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ modulation-doped heterostructure. Physica Status Solidi (B): Basic Research, 2003, 239, 103-109.	0.7	3
106	Fully 3D self-consistent quantum transport simulation of Double-gate and Tri-gate 10 nm FinFETs. Journal of Computational Electronics, 2008, 7, 346-349.	1.3	3
107	Computational nanoelectronics research and education at nanoHUB.org. Journal of Computational Electronics, 2009, 8, 124-131.	1.3	3
108	Static Analysis of Random Telegraph Noise in a 45-nm Channel Length Conventional MOSFET Device: Threshold Voltage and ON-Current Fluctuations. IEEE Nanotechnology Magazine, 2011, 10, 1394-1400.	1.1	3

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109	Phonon-limited mobility modeling of gallium nitride nanowires. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	3
110	Electron transport analysis of 4H-SiC with full-band Monte Carlo simulation including real-space Coulomb interactions. <i>Journal of Applied Physics</i> , 2020, 127, 155702.	1.1	3
111	Compatibility of cobalt and chromium depletion gates with RPECVD upper gate oxide for silicon-based nanostructures. <i>Semiconductor Science and Technology</i> , 1998, 13, A71-A74.	1.0	2
112	2D Monte Carlo Simulation of Hole and Electron Transport in Strained Si. <i>VLSI Design</i> , 1998, 6, 167-171.	0.5	2
113	Selecting wave function states in open quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 740-744.	1.3	2
114	Optimization of FIBMOS Through 2D Silvaco ATLAS and 2D Monte Carlo Particle-based Device Simulations. <i>VLSI Design</i> , 2001, 13, 251-256.	0.5	2
115	Quantum mechanical tunneling phenomena in metal-semiconductor junctions. <i>Superlattices and Microstructures</i> , 2003, 34, 335-339.	1.4	2
116	Quantum confinements in highly asymmetric sub-micrometer device structures. <i>Superlattices and Microstructures</i> , 2003, 34, 347-354.	1.4	2
117	Threshold voltage shifts in narrow-width SOI devices due to quantum mechanical size-quantization effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 19, 48-52.	1.3	2
118	Electron Density Calculation Using the Contact Block Reduction Method. <i>Journal of Computational Electronics</i> , 2004, 3, 45-50.	1.3	2
119	1/f noise simulation in MOSFETs under cyclo-stationary conditions using SPICE simulator. <i>Journal of Computational Electronics</i> , 2015, 14, 15-20.	1.3	2
120	Static and Transient Simulation of 4H-SiC VDMOS Using Full-Band Monte Carlo Simulation That Includes Real-Space Treatment of the Coulomb Interactions. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3705-3710.	1.6	2
121	Role of Hydrogen in the Electronic Properties of a-Si:H/c-Si Heterostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13050-13058.	1.5	2
122	Evaluating the Ballistic Transport in nFinFETs: A Carrier Centric Perspective. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 311-319.	1.1	2
123	Backscattering of electrons in a periodically corrugated quantum wire modeled with a self-consistent potential. <i>Microelectronic Engineering</i> , 1999, 47, 151-153.	1.1	1
124	Focused multi-peaks in gated ballistic wires. <i>Microelectronic Engineering</i> , 1999, 47, 155-157.	1.1	1
125	Adiabatic switching in coupled quantum dot systems facilitated by the coexistence of molecular and atomic states. <i>Applied Physics Letters</i> , 2002, 80, 4440-4442.	1.5	1
126	Low-Field Mobility and Quantum Effects in Asymmetric Silicon-Based Field-Effect Devices. <i>Journal of Computational Electronics</i> , 2002, 1, 273-277.	1.3	1



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127	Title is missing!. Journal of Computational Electronics, 2002, 1, 359-363.	1.3	1
128	A First Principles Alloy Scattering Approach for Monte Carlo Hole Mobility Calculations. Journal of Computational Electronics, 2004, 3, 351-354.	1.3	1
129	Hole transport in p-channel Si MOSFETs. Microelectronics Journal, 2005, 36, 323-326.	1.1	1
130	Electron-phonon interaction in nanowires: A Monte Carlo study of the effect of the field. Mathematics and Computers in Simulation, 2010, 81, 515-521.	2.4	1
131	Current Degradation in GaN HEMTs: Is Self-Heating Responsible. ECS Transactions, 2012, 49, 103-109.	0.3	1
132	Weakly open quantum dots: Magnetotransport spectroscopy and zero-field resistance peaks. Microelectronic Engineering, 1999, 47, 89-93.	1.1	0
133	3D modeling of discrete impurity effects in silicon quantum dots: energy level spacing and scarring effects. Superlattices and Microstructures, 2000, 28, 461-467.	1.4	0
134	The Role of Quantization Effects on the Operation of 50 nm MOSFET and 250 nm FIBMOS Devices. Physica Status Solidi (B): Basic Research, 2002, 233, 127-133.	0.7	0
135	Subthreshold Mobility Extraction for SOI-MESFETs. Journal of Computational Electronics, 2004, 3, 243-246.	1.3	0
136	Spontaneous spin polarization in GaAs/AlGaAs split-gate heterostructures. Microelectronics Journal, 2005, 36, 460-462.	1.1	0
137	Theoretical Evidence of Spontaneous Spin Polarization in GaAs/AlGaAs Split-Gate Heterostructures. Journal of Computational Electronics, 2005, 4, 125-128.	1.3	0
138	Electronic and Thermal Properties of Silicon Nanowires. ECS Transactions, 2007, 6, 159-164.	0.3	0
139	Assessment of the CBR Quantum Transport Simulator on Experimentally Fabricated Nano-FinFET. ECS Transactions, 2007, 6, 197-203.	0.3	0
140	Can silicon FinFETs satisfy ITRS projections for high performance 10Ånm devices?. Journal of Computational Electronics, 2008, 7, 284-287.	1.3	0
141	Current degradation due to electromechanical coupling in GaN HEMT's. Microelectronics Journal, 2013, 44, 592-597.	1.1	0