

# Viktor Sverdlov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166  
papers

1,262  
citations

18  
h-index

30  
g-index

262  
ext. papers

1,568  
ext. citations

2.1  
avg. IF

4.55  
L-index

#	Paper	IF	Citations
166	Temperature increase in STT-MRAM at writing: A fully three-dimensional finite element approach. <i>Solid-State Electronics</i> , <b>2022</b> , 193, 108269	1.7	0
165	Edge modes and their conductance in narrow nanoribbons of 2D materials in a topological phase. <i>Solid-State Electronics</i> , <b>2022</b> , 193, 108266	1.7	
164	Interface Effects in Ultra-Scaled MRAM Cells. <i>Solid-State Electronics</i> , <b>2022</b> , 108373	1.7	0
163	Finite element modeling of spin-orbit torques. <i>Solid-State Electronics</i> , <b>2022</b> , 194, 108323	1.7	1
162	Double Reference Layer STT-MRAM Structures with Improved Performance. <i>Solid-State Electronics</i> , <b>2022</b> , 194, 108335	1.7	1
161	Reinforcement learning to reduce failures in SOT-MRAM switching. <i>Microelectronics Reliability</i> , <b>2022</b> , 135, 114570	1.2	
160	Improving failure rates in pulsed SOT-MRAM switching by reinforcement learning. <i>Microelectronics Reliability</i> , <b>2021</b> , 126, 114231	1.2	
159	Optimization of a Spin-Orbit Torque Switching Scheme Based on Micromagnetic Simulations and Reinforcement Learning. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	5
158	Numerical Analysis of Deterministic Switching of a Perpendicularly Magnetized Spin-Orbit Torque Memory Cell. <i>IEEE Journal of the Electron Devices Society</i> , <b>2021</b> , 9, 61-67	2.3	3
157	Emerging CMOS Compatible Magnetic Memories and Logic. <i>IEEE Journal of the Electron Devices Society</i> , <b>2021</b> , 9, 456-463	2.3	0
156	Subbands in a nanoribbon of topologically insulating MoS <sub>2</sub> in the 1T' phase. <i>Solid-State Electronics</i> , <b>2021</b> , 184, 108081	1.7	0
155	Two-pulse switching scheme and reinforcement learning for energy efficient SOT-MRAM simulations. <i>Solid-State Electronics</i> , <b>2021</b> , 185, 108075	1.7	
154	Coupled spin and charge drift-diffusion approach applied to magnetic tunnel junctions. <i>Solid-State Electronics</i> , <b>2021</b> , 186, 108103	1.7	5
153	Ballistic Conductance in a Topological 1T'-MoS <sub>2</sub> Nanoribbon. <i>Semiconductors</i> , <b>2020</b> , 54, 1713-1715	0.7	
152	Conductance in a Nanoribbon of Topologically Insulating MoS <sub>2</sub> in the 1T' Phase. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4687-4690	2.9	1
151	Emerging CMOS Compatible Magnetic Memories and Logic <b>2020</b> ,		3
150	Topologically Protected and Conventional Subbands in a 1T'-MoS <sub>2</sub> Nanoribbon Channel <b>2020</b> ,		1

149	Comprehensive Modeling of Coupled Spin and Charge Transport through Magnetic Tunnel Junctions <b>2020</b> ,		1
148	Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM Cells <b>2020</b> ,		2
147	A Monte Carlo Evaluation of the Current and Low Frequency Current Noise at Spin-Dependent Hopping. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 446-453	0.9	
146	Two-pulse magnetic field-free switching scheme for perpendicular SOT-MRAM with a symmetric square free layer. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 578, 411743	2.8	5
145	Robust magnetic field-free switching of a perpendicularly magnetized free layer for SOT-MRAM. <i>Solid-State Electronics</i> , <b>2020</b> , 168, 107730	1.7	7
144	Analysis of Switching Under Fixed Voltage and Fixed Current in Perpendicular STT-MRAM. <i>IEEE Journal of the Electron Devices Society</i> , <b>2020</b> , 8, 1249-1256	2.3	
143	Current and shot noise at spin-dependent hopping through junctions with ferromagnetic contacts. <i>Solid-State Electronics</i> , <b>2019</b> , 159, 43-50	1.7	
142	Two-pulse sub-ns switching scheme for advanced spin-orbit torque MRAM. <i>Solid-State Electronics</i> , <b>2019</b> , 155, 49-56	1.7	12
141	Comprehensive Comparison of Switching Models for Perpendicular Spin-Transfer Torque MRAM Cells <b>2019</b> ,		2
140	Efficient two-level parallelization approach to evaluate spin relaxation in a strained thin silicon film. <i>Journal of Computational Electronics</i> , <b>2019</b> , 18, 28-36	1.8	1
139	Demands for spin-based nonvolatility in emerging digital logic and memory devices for low power computing. <i>Facta Universitatis - Series Electronics and Energetics</i> , <b>2018</b> , 31, 529-545	0.4	
138	Switching current reduction in advanced spin-orbit torque MRAM <b>2018</b> ,		3
137	Non-volatility by spin in modern nanoelectronics <b>2017</b> ,		1
136	Stateful STT-MRAM-Based Logic for Beyond Von Neumann Computing <b>2017</b> , 221-249		
135	CMOS-compatible spintronic devices: a review. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 113006	1.8	54
134	A Universal Nonvolatile Processing Environment <b>2016</b> , 83-91		2
133	Electron Momentum and Spin Relaxation in Silicon Films. <i>Mathematics in Industry</i> , <b>2016</b> , 695-700	0.2	
132	Enhancement of Electron Spin Relaxation Time in Thin SOI Films by Spin Injection Orientation and Uniaxial Stress. <i>Journal of Nano Research</i> , <b>2016</b> , 39, 34-42	1	1

131	Silicon-on-insulator for spintronic applications: spin lifetime and electric spin manipulation. <i>ChemistrySelect</i> , <b>2016</b> , 1,	1.8	1
130	Influence of magnetization variations in the free layer on a non-volatile magnetic flip flop. <i>Solid-State Electronics</i> , <b>2015</b> , 108, 2-7	1.7	1
129	Intersubband spin relaxation reduction and spin lifetime enhancement by strain in SOI structures. <i>Microelectronic Engineering</i> , <b>2015</b> , 147, 89-91	2.5	6
128	Influence of valley splitting on spin relaxation time in a strained thin silicon film <b>2015</b> ,		1
127	SOT-MRAM based on 1Transistor-1MTJ-cell structure <b>2015</b> ,		2
126	Silicon spintronics: Progress and challenges. <i>Physics Reports</i> , <b>2015</b> , 585, 1-40	27.7	43
125	Electron mobility and spin lifetime enhancement in strained ultra-thin silicon films. <i>Solid-State Electronics</i> , <b>2015</b> , 112, 46-50	1.7	3
124	Variation of Spin Lifetime with Spin Injection Orientation in Strained Thin Silicon Films. <i>ECS Transactions</i> , <b>2015</b> , 66, 233-240	1	2
123	Dependence of spin lifetime on spin injection orientation in strained silicon films <b>2015</b> ,		2
122	Modelling of multipurpose spintronic devices. <i>International Journal of Nanotechnology</i> , <b>2015</b> , 12, 313	1.5	3
121	Evaluation of Spin Lifetime in Thin-Body FETs: A High Performance Computing Approach. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 285-292	0.9	1
120	Spin-Based CMOS-Compatible Devices. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 42-49	0.9	
119	Spin injection and diffusion in silicon based devices from a space charge layer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17C503	2.5	4
118	Novel bias-field-free spin transfer oscillator. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17C901	2.5	4
117	Valley splitting and spin lifetime enhancement in strained thin silicon films <b>2014</b> ,		3
116	High performance MRAM-based stateful logic <b>2014</b> ,		3
115	Influence of magnetization variations in the free layer on a non-volatile magnetic flip flop <b>2014</b> ,		1
114	Spin injection in a semiconductor through a space-charge layer. <i>Solid-State Electronics</i> , <b>2014</b> , 101, 116-121.	1.7	6

113	Progress in Magnetoresistive Memory: Magnetic Tunnel Junctions with a Composite Free Layer. <i>International Journal of High Speed Electronics and Systems</i> , <b>2014</b> , 23, 1450014	0.5	
112	Influence of device geometry on the non-volatile magnetic flip flop characteristics <b>2014</b> ,		1
111	Uniaxial Shear Strain as a Mechanism to Increase Spin Lifetime in Thin Film of a SOI-Based Silicon Spin FETs. <i>Engineering Materials</i> , <b>2014</b> , 127-149	0.4	
110	Implication logic gates using spin-transfer-torque-operated magnetic tunnel junctions for intrinsic logic-in-memory. <i>Solid-State Electronics</i> , <b>2013</b> , 84, 191-197	1.7	48
109	<b>2013</b> ,		3
108	Rigorous simulation study of a novel non-volatile magnetic flip-flop <b>2013</b> ,		5
107	Reduction of momentum and spin relaxation rate in strained thin silicon films <b>2013</b> ,		4
106	Performance analysis and comparison of two 1T/1MTJ-based logic gates <b>2013</b> ,		3
105	Subband splitting and surface roughness induced spin relaxation in (0 0 1) silicon SOI MOSFETs. <i>Solid-State Electronics</i> , <b>2013</b> , 90, 34-38	1.7	11
104	Simulation study of an electrically read- and writable magnetic logic gate. <i>Microelectronic Engineering</i> , <b>2013</b> , 112, 188-192	2.5	1
103	Influence of Geometry on the Memristive Behavior of the Domain Wall Spintronic Memristors and Its Applications for Measurement. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 1745-1748	1.5	2
102	Reliability Analysis and Comparison of Implication and Reprogrammable Logic Gates in Magnetic Tunnel Junction Logic Circuits. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5620-5628	2	18
101	Reliability-Based Optimization of Spin-Transfer Torque Magnetic Tunnel Junction Implication Logic Gates. <i>Advanced Materials Research</i> , <b>2013</b> , 854, 89-95	0.5	3
100	Acoustic Phonon and Surface Roughness Spin Relaxation Mechanisms in Strained Ultra-Scaled Silicon Films. <i>Advanced Materials Research</i> , <b>2013</b> , 854, 29-34	0.5	2
99	Design and applications of magnetic tunnel junction based logic circuits <b>2013</b> ,		4
98	MRAM-based logic array for large-scale non-volatile logic-in-memory applications <b>2013</b> ,		8
97	Using strain to increase the reliability of scaled spin MOSFETs <b>2013</b> ,		1
96	Emerging memory technologies: Trends, challenges, and modeling methods. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 628-634	1.2	60

95	Temperature dependence of the transport properties of spin field-effect transistors built with InAs and Si channels. <i>Solid-State Electronics</i> , <b>2012</b> , 71, 25-29	1.7	6
94	Subband engineering in -type silicon nanowires using strain and confinement. <i>Solid-State Electronics</i> , <b>2012</b> , 70, 73-80	1.7	5
93	Modeling Emerging Non-volatile Memories: Current Trends and Challenges. <i>Physics Procedia</i> , <b>2012</b> , 25, 99-104		4
92	Fast Switching in Magnetic Tunnel Junctions With Two Pinned Layers: Micromagnetic Modeling. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1289-1292	2	11
91	A multi scale modeling approach to non-radiative multi phonon transitions at oxide defects in MOS structures. <i>Journal of Computational Electronics</i> , <b>2012</b> , 11, 218-224	1.8	9
90	Reduction of surface roughness induced spin relaxation in SOI MOSFETs <b>2012</b> ,		1
89	MTJ-based implication logic gates and circuit architecture for large-scale spintronic stateful logic systems <b>2012</b> ,		4
88	Efficient Simulations of the Transport Properties of Spin Field-Effect Transistors Built on Silicon Fins. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 630-637	0.9	
87	Demands of Transport Modeling in Advanced MOSFETs. <i>Computational Microelectronics</i> , <b>2011</b> , 169-237		
86	Reduction of switching time in pentalayer magnetic tunnel junctions with a composite-free layer. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 420-422	2.5	11
85	Domain-wall spintronic memristor for capacitance and inductance sensing <b>2011</b> ,		2
84	Transport properties of spin field-effect transistors built on Si and InAs <b>2011</b> ,		1
83	Switching time and current reduction using a composite free layer in magnetic tunnel junctions <b>2011</b> ,		2
82	Perspectives of Silicon for Future Spintronic Applications From the Peculiarities of the Subband Structure in Thin Films. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 737-743	2.6	
81	Stochastic model of the resistive switching mechanism in bipolar resistive random access memory: Monte Carlo simulations. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 01AD03	1.3	11
80	Properties of Silicon Ballistic Spin Fin-Based Field-Effect Transistors. <i>ECS Transactions</i> , <b>2011</b> , 35, 277-282		3
79	Strain-Induced Effects in Advanced MOSFETs. <i>Computational Microelectronics</i> , <b>2011</b> ,		35
78	Scaling, Power Consumption, and Mobility Enhancement Techniques. <i>Computational Microelectronics</i> , <b>2011</b> , 5-22		3

77	Electron Subbands in Thin Silicon Films. <i>Computational Microelectronics</i> , <b>2011</b> , 131-167		0
76	Band Structure of Relaxed Silicon. <i>Computational Microelectronics</i> , <b>2011</b> , 45-62		
75	Perturbative Methods for Band Structure Calculations in Silicon. <i>Computational Microelectronics</i> , <b>2011</b> , 63-81		
74	Strain Effects on the Conduction Band of Silicon. <i>Computational Microelectronics</i> , <b>2011</b> , 105-121		
73	Modeling of the SET and RESET Process in Bipolar Resistive Oxide-Based Memory Using Monte Carlo Simulations. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 87-94	0.9	1
72	Classical Device Modeling <b>2011</b> , 1-96		2
71	A stochastic model of bipolar resistive switching in metal-oxide-based memory <b>2010</b> ,		1
70	Transport modeling for nanoscale semiconductor devices <b>2010</b> ,		6
69	Biotin-Streptavidin Sensitive BioFETs and Their Properties. <i>Communications in Computer and Information Science</i> , <b>2010</b> , 85-95	0.3	3
68	Modeling demands for nanoscale devices <b>2010</b> ,		1
67	Electronic band structure modeling in strained Si-nanowires: Two band $k_{\parallel}$ versus tight binding <b>2010</b> ,		9
66	Stochastic modeling hysteresis and resistive switching in bipolar oxide-based memory <b>2010</b> ,		3
65	Stochastic modeling of the resistive switching mechanism in oxide-based memory <b>2010</b> ,		1
64	Simulation of Field-Effect Biosensors (BioFETs) for Biotin-Streptavidin Complexes <b>2010</b> ,		3
63	Electron subband structure in strained silicon UTB films from the Hensel-Hasegawa-Nakayama model [Part 1 analytical consideration and strain-induced valley splitting. <i>Solid-State Electronics</i> , <b>2010</b> , 54, 137-142	1.7	4
62	Stochastic modeling of bipolar resistive switching in metal-oxide based memory by Monte Carlo technique. <i>Journal of Computational Electronics</i> , <b>2010</b> , 9, 146-152	1.8	3
61	Silicon for Spintronic Applications: Strain-Enhanced Valley Splitting <b>2010</b> , 281-291		
60	Electron subband structure in strained silicon UTB films from the Hensel-Hasegawa-Nakayama model [Part 2 efficient self-consistent numerical solution of the $k_{\parallel}$ schrödinger equation. <i>Solid-State Electronics</i> , <b>2010</b> , 54, 143-148	1.7	6

59	Transport in Nanostructures: A Comparative Analysis Using Monte Carlo Simulation, the Spherical Harmonic Method, and Higher Moments Models. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 443-450	0.9	
58	Impact of Confinement of Semiconductor and Band Engineering on Future Device Performance. <i>ECS Transactions</i> , <b>2009</b> , 19, 15-26	1	1
57	Impact of the Surrounding Network on the Si-O Bond-Breakage Energetics. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1177, 31		
56	Modeling of modern MOSFETs with strain. <i>Journal of Computational Electronics</i> , <b>2009</b> , 8, 192-208	1.8	6
55	Impact of OSiD bond angle fluctuations on the SiD bond-breakage rate. <i>Microelectronics Reliability</i> , <b>2009</b> , 49, 998-1002	1.2	1
54	Thickness Dependence of the Effective Masses in a Strained Thin Silicon Film <b>2009</b> ,		2
53	Modeling of Low Concentrated Buffer DNA Detection with Suspend Gate Field-Effect Transistors (SGFET) <b>2009</b> ,		3
52	Numerical Quadrature of the Subband Distribution Functions in Strained Silicon UTB Devices <b>2009</b> ,		4
51	The Linear Combination of Bulk Bands-Method for Electron and Hole Subband Calculations in Strained Silicon Films and Surface Layers <b>2009</b> ,		2
50	Ultra-scaled Z-RAM cell <b>2008</b> ,		22
49	Simulation of field-effect Biosensors (BioFETs) <b>2008</b> ,		1
48	Charging and Discharging of Oxide Defects in Reliability Issues. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2008</b> , 8, 491-500	1.6	14
47	Mobility enhancement in thin silicon films: Strain and thickness dependences of the effective masses and non-parabolicity parameter <b>2008</b> ,		2
46	Mobility Modeling in Advanced MOSFETs with Ultra-Thin Silicon Body under Stress. <i>ECS Transactions</i> , <b>2008</b> , 14, 159-168	1	
45	Electron subband dispersions in ultra-thin silicon films from a two-band k?p theory. <i>Journal of Computational Electronics</i> , <b>2008</b> , 7, 164-167	1.8	2
44	Two-band k?p model for the conduction band in silicon: Impact of strain and confinement on band structure and mobility. <i>Solid-State Electronics</i> , <b>2008</b> , 52, 1563-1568	1.7	24
43	Electron subband structure and controlled valley splitting in silicon thin-body SOI FETs: Two-band k ?p theory and beyond. <i>Solid-State Electronics</i> , <b>2008</b> , 52, 1861-1866	1.7	9
42	Current transport models for nanoscale semiconductor devices. <i>Materials Science and Engineering Reports</i> , <b>2008</b> , 58, 228-270	30.9	28

41	Monte Carlo Algorithm for Mobility Calculations in Thin Body Field Effect Transistors: Role of Degeneracy and Intersubband Scattering. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 157-164	0.9	
40	Effects of shear strain on the conduction band in silicon: An efficient two-band $k\cdot p$ theory <b>2007</b> ,		11
39	Theoretical Electron Mobility Analysis in Thin-Body FETs: Dependence on Substrate Orientation and Biaxial Strain. <i>IEEE Nanotechnology Magazine</i> , <b>2007</b> , 6, 334-340	2.6	3
38	Self-Consistent Wigner Monte Carlo Simulations of Current in Emerging Nanodevices: Role of Tunneling and Scattering. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	1
37	Volume inversion mobility in SOI MOSFETs for different thin body orientations. <i>Solid-State Electronics</i> , <b>2007</b> , 51, 299-305	1.7	13
36	Modeling current transport in ultra-scaled field-effect transistors. <i>Microelectronics Reliability</i> , <b>2007</b> , 47, 11-19	1.2	2
35	. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 2183-2190	2.9	141
34	Scattering and space-charge effects in Wigner Monte Carlo simulations of single and double barrier devices. <i>Journal of Computational Electronics</i> , <b>2007</b> , 5, 447-450	1.8	7
33	The Universality of NBTI Relaxation and its Implications for Modeling and Characterization <b>2007</b> ,		99
32	A numerical study of Coulomb interaction effects on 2D hopping transport. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 2013-27	1.8	5
31	A numerical study of transport and shot noise in 2D hopping. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 1999-2012	1.8	5
30	Strain engineering for CMOS devices <b>2006</b> ,		3
29	Electron Inversion Layer Mobility Enhancement by Uniaxial Stress on (001) and (110) Oriented MOSFETs <b>2006</b> ,		3
28	Wigner Monte Carlo Simulation: Particle Annihilation and Device Applications <b>2006</b> ,		2
27	Quantum Correction to the Semiclassical Electron-Phonon Scattering Operator. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 594-601	0.9	
26	Quantum transport in ultra-scaled double-gate MOSFETs: A Wigner function-based Monte Carlo approach. <i>Solid-State Electronics</i> , <b>2005</b> , 49, 1510-1515	1.7	23
25	Qubit decoherence by Gaussian low-frequency noise. <i>JETP Letters</i> , <b>2004</b> , 79, 646-649	1.2	19
24	Nanoscale SOI MOSFETs: a comparison of two options. <i>Solid-State Electronics</i> , <b>2004</b> , 48, 857-865	1.7	10

23	Nanoscale silicon MOSFETs: A theoretical study. <i>IEEE Transactions on Electron Devices</i> , <b>2003</b> , 50, 1926-1933	3	60
22	Temperature scaling of CMOS circuit power consumption. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 18, 151-152	3	1
21	MOSFETs below : quantum theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 19, 23-27	3	11
20	Effective boundary conditions for carriers in ultrathin SOI channels. <i>IEEE Nanotechnology Magazine</i> , <b>2003</b> , 2, 59-63	2.6	15
19	Shot noise in frustrated single-electron arrays. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2662-2664	3-4	
18	Coulomb gap, Coulomb blockade, and dynamic activation energy in frustrated single-electron arrays. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	27
17	Shot Noise at 2D Hopping. <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 149-150	1.5	
16	Various spin-polarization states beyond the maximum-density droplet: A quantum Monte Carlo study. <i>Physical Review B</i> , <b>2002</b> , 65,	3-3	19
15	Subelectron transport in single-electron-tunneling arrays. <i>Physical Review B</i> , <b>2002</b> , 65,	3-3	2
14	Shot-noise suppression at two-dimensional hopping. <i>Physical Review B</i> , <b>2001</b> , 63,	3-3	22
13	Single-electron soliton avalanches in tunnel-junction arrays. <i>Physical Review B</i> , <b>2001</b> , 64,	3-3	8
12	Effect of electromagnetic environment on transport of composite fermions in a narrow constriction between compressible quantum Hall liquids. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1730-1731	2.8	
11	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1776-1777	2.8	2
10	Many-body wave function for a quantum dot in a weak magnetic field. <i>Physical Review B</i> , <b>1999</b> , 59, 5622-5626	3-3	43
9	Variational wave function for a two-electron quantum dot. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 255, 145-149	1.6	24
8	Variational wave function for a quantum dot in a magnetic field: A quantum Monte Carlo study. <i>Europhysics Letters</i> , <b>1998</b> , 41, 407-412	1.6	15
7	Paramagnetic Meissner effect and time reversal non-invariance from spin polarization. <i>Superlattices and Microstructures</i> , <b>1997</b> , 21, 481-486	2.8	3
6	Role of edge electron states in the formation of edge magnetoplasmons. <i>Physical Review B</i> , <b>1996</b> , 54, 16333-16336	3-3	3

- 5 Plasma Waves in a Finite Superlattice. *Physica Status Solidi (B): Basic Research*, **1994**, 181, 161-168 1.3 1
- 4 Influence of dynamical screening on the superconducting transition temperature. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2949-2950 1.3
- 3 On the Theory of Surface Plasma Waves in Superlattices. *Physica Status Solidi (B): Basic Research*, **1991**, 165, K59-K62 1.3
- 2 Quantum mechanical modeling of advanced sub-10 nm MOSFETs 2
- 1 Magnetic Tunnel Junctions with a Composite Free Layer: A New Concept for Future Universal Memory 93-101 3