Viktor Sverdlov

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166 1,262 18 30 g-index h-index citations papers 262 1,568 2.1 4.55 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
166	. IEEE Transactions on Electron Devices, 2007 , 54, 2183-2190	2.9	141
165	The Universality of NBTI Relaxation and its Implications for Modeling and Characterization 2007,		99
164	Emerging memory technologies: Trends, challenges, and modeling methods. <i>Microelectronics Reliability</i> , 2012 , 52, 628-634	1.2	60
163	Nanoscale silicon MOSFETs: A theoretical study. <i>IEEE Transactions on Electron Devices</i> , 2003 , 50, 1926-19	933)	60
162	CMOS-compatible spintronic devices: a review. Semiconductor Science and Technology, 2016 , 31, 113006	1.8	54
161	Implication logic gates using spin-transfer-torque-operated magnetic tunnel junctions for intrinsic logic-in-memory. <i>Solid-State Electronics</i> , 2013 , 84, 191-197	1.7	48
160	Silicon spintronics: Progress and challenges. <i>Physics Reports</i> , 2015 , 585, 1-40	27.7	43
159	Many-body wave function for a quantum dot in a weak magnetic field. <i>Physical Review B</i> , 1999 , 59, 5622	-5.626	43
158	Strain-Induced Effects in Advanced MOSFETs. Computational Microelectronics, 2011,		35
157	Current transport models for nanoscale semiconductor devices. <i>Materials Science and Engineering Reports</i> , 2008 , 58, 228-270	30.9	28
156	Coulomb gap, Coulomb blockade, and dynamic activation energy in frustrated single-electron arrays. <i>Physical Review B</i> , 2003 , 68,	3.3	27
155	Variational wave function for a two-electron quantum dot. <i>Physica B: Condensed Matter</i> , 1998 , 255, 145-	-149	24
154	Two-band kp model for the conduction band in silicon: Impact of strain and confinement on band structure and mobility. <i>Solid-State Electronics</i> , 2008 , 52, 1563-1568	1.7	24
153	Quantum transport in ultra-scaled double-gate MOSFETs: A Wigner function-based Monte Carlo approach. <i>Solid-State Electronics</i> , 2005 , 49, 1510-1515	1.7	23
152	Ultra-scaled Z-RAM cell 2008 ,		22
151	Shot-noise suppression at two-dimensional hopping. <i>Physical Review B</i> , 2001 , 63,	3.3	22
150	Qubit decoherence by Gaussian low-frequency noise. <i>JETP Letters</i> , 2004 , 79, 646-649	1.2	19

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149	Various spin-polarization states beyond the maximum-density droplet: A quantum Monte Carlo study. <i>Physical Review B</i> , 2002 , 65,	3.3	19	
148	Reliability Analysis and Comparison of Implication and Reprogrammable Logic Gates in Magnetic Tunnel Junction Logic Circuits. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5620-5628	2	18	
147	Effective boundary conditions for carriers in ultrathin SOI channels. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 59-63	2.6	15	
146	Variational wave function for a quantum dot in a magnetic field: A quantum Monte Carlo study. <i>Europhysics Letters</i> , 1998 , 41, 407-412	1.6	15	
145	Charging and Discharging of Oxide Defects in Reliability Issues. <i>IEEE Transactions on Device and Materials Reliability</i> , 2008 , 8, 491-500	1.6	14	
144	Volume inversion mobility in SOI MOSFETs for different thin body orientations. <i>Solid-State Electronics</i> , 2007 , 51, 299-305	1.7	13	
143	Two-pulse sub-ns switching scheme for advanced spin-orbit torque MRAM. <i>Solid-State Electronics</i> , 2019 , 155, 49-56	1.7	12	
142	Fast Switching in Magnetic Tunnel Junctions With Two Pinned Layers: Micromagnetic Modeling. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1289-1292	2	11	
141	Subband splitting and surface roughness induced spin relaxation in (0 0 1) silicon SOI MOSFETs. <i>Solid-State Electronics</i> , 2013 , 90, 34-38	1.7	11	
140	Reduction of switching time in pentalayer magnetic tunnel junctions with a composite-free layer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 420-422	2.5	11	
139	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> , 2011 , 29, 01AD03	1.3	11	
138	Effects of shear strain on the conduction band in silicon: An efficient two-band klp theory 2007 ,		11	
137	MOSFETs below: quantum theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 19, 23-27	3	11	
136	Nanoscale SOI MOSFETs: a comparison of two options. <i>Solid-State Electronics</i> , 2004 , 48, 857-865	1.7	10	
135	A multi scale modeling approach to non-radiative multi phonon transitions at oxide defects in MOS structures. <i>Journal of Computational Electronics</i> , 2012 , 11, 218-224	1.8	9	
134	Electronic band structure modeling in strained Si-nanowires: Two band $k \Box p$ versus tight binding 2010 ,		9	
133	Electron subband structure and controlled valley splitting in silicon thin-body SOI FETs: Two-band k	1.7	9	
132	MRAM-based logic array for large-scale non-volatile logic-in-memory applications 2013 ,		8	

131	Single-electron soliton avalanches in tunnel-junction arrays. <i>Physical Review B</i> , 2001 , 64,	3.3	8
130	Scattering and space-charge effects in Wigner Monte Carlo simulations of single and double barrier devices. <i>Journal of Computational Electronics</i> , 2007 , 5, 447-450	1.8	7
129	Robust magnetic field-free switching of a perpendicularly magnetized free layer for SOT-MRAM. <i>Solid-State Electronics</i> , 2020 , 168, 107730	1.7	7
128	Intersubband spin relaxation reduction and spin lifetime enhancement by strain in SOI structures. <i>Microelectronic Engineering</i> , 2015 , 147, 89-91	2.5	6
127	Spin injection in a semiconductor through a space-charge layer. Solid-State Electronics, 2014, 101, 116-1	2:1 1.7	6
126	Temperature dependence of the transport properties of spin field-effect transistors built with InAs and Si channels. <i>Solid-State Electronics</i> , 2012 , 71, 25-29	1.7	6
125	Transport modeling for nanoscale semiconductor devices 2010,		6
124	Modeling of modern MOSFETs with strain. <i>Journal of Computational Electronics</i> , 2009 , 8, 192-208	1.8	6
123	Electron subband structure in strained silicon UTB films from the HenselHasegawaNakayama model Part 2 efficient self-consistent numerical solution of the k p schrilinger equation. <i>Solid-State Electronics</i> , 2010 , 54, 143-148	1.7	6
122	Subband engineering in -type silicon nanowires using strain and confinement. <i>Solid-State Electronics</i> , 2012 , 70, 73-80	1.7	5
121	Rigorous simulation study of a novel non-volatile magnetic flip-flop 2013,		5
120	A numerical study of Coulomb interaction effects on 2D hopping transport. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 2013-27	1.8	5
119	A numerical study of transport and shot noise in 2D[hopping. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 1999-2012	1.8	5
118	Two-pulse magnetic field-free switching scheme for perpendicular SOT-MRAM with a symmetric square free layer. <i>Physica B: Condensed Matter</i> , 2020 , 578, 411743	2.8	5
117	Optimization of a Spin-Orbit Torque Switching Scheme Based on Micromagnetic Simulations and Reinforcement Learning. <i>Micromachines</i> , 2021 , 12,	3.3	5
116	Coupled spin and charge drift-diffusion approach applied to magnetic tunnel junctions. <i>Solid-State Electronics</i> , 2021 , 186, 108103	1.7	5
115	Spin injection and diffusion in silicon based devices from a space charge layer. <i>Journal of Applied Physics</i> , 2014 , 115, 17C503	2.5	4
114	Novel bias-field-free spin transfer oscillator. <i>Journal of Applied Physics</i> , 2014 , 115, 17C901	2.5	4

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113	Modeling Emerging Non-volatile Memories: Current Trends and Challenges. <i>Physics Procedia</i> , 2012 , 25, 99-104		4
112	Reduction of momentum and spin relaxation rate in strained thin silicon films 2013,		4
111	MTJ-based implication logic gates and circuit architecture for large-scale spintronic stateful logic systems 2012 ,		4
110	Design and applications of magnetic tunnel junction based logic circuits 2013,		4
109	Numerical Quadrature of the Subband Distribution Functions in Strained Silicon UTB Devices 2009,		4
108	Electron subband structure in strained silicon UTB films from the HenselHasegawaNakayama model Part 1 analytical consideration and strain-induced valley splitting. <i>Solid-State Electronics</i> , 2010 , 54, 137-142	1.7	4
107	Emerging CMOS Compatible Magnetic Memories and Logic 2020 ,		3
106	Valley splitting and spin lifetime enhancement in strained thin silicon films 2014,		3
105	High performance MRAM-based stateful logic 2014 ,		3
104	2013,		
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103	Performance analysis and comparison of two 1T/1MTJ-based logic gates 2013,		3
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103	Performance analysis and comparison of two 1T/1MTJ-based logic gates 2013 , Electron mobility and spin lifetime enhancement in strained ultra-thin silicon films. <i>Solid-State</i>	1.7	3
103	Performance analysis and comparison of two 1T/1MTJ-based logic gates 2013, Electron mobility and spin lifetime enhancement in strained ultra-thin silicon films. <i>Solid-State Electronics</i> , 2015, 112, 46-50		3
103	Performance analysis and comparison of two 1T/1MTJ-based logic gates 2013, Electron mobility and spin lifetime enhancement in strained ultra-thin silicon films. Solid-State Electronics, 2015, 112, 46-50 Modelling of multipurpose spintronic devices. International Journal of Nanotechnology, 2015, 12, 313 Reliability-Based Optimization of Spin-Transfer Torque Magnetic Tunnel Junction Implication Logic	1.5	3 3 3
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103 102 101 100	Performance analysis and comparison of two 1T/1MTJ-based logic gates 2013, Electron mobility and spin lifetime enhancement in strained ultra-thin silicon films. Solid-State Electronics, 2015, 112, 46-50 Modelling of multipurpose spintronic devices. International Journal of Nanotechnology, 2015, 12, 313 Reliability-Based Optimization of Spin-Transfer Torque Magnetic Tunnel Junction Implication Logic Gates. Advanced Materials Research, 2013, 854, 89-95 Biotin-Streptavidin Sensitive BioFETs and Their Properties. Communications in Computer and Information Science, 2010, 85-95	0.5	3 3 3 3

95	Simulation of Field-Effect Biosensors (BioFETs) for Biotin-Streptavidin Complexes 2010,		3
94	Stochastic modeling of bipolar resistive switching in metal-oxide based memory by Monte Carlo technique. <i>Journal of Computational Electronics</i> , 2010 , 9, 146-152	1.8	3
93	Paramagnetic Meissner effect and time reversal non-invariance from spin polarization. <i>Superlattices and Microstructures</i> , 1997 , 21, 481-486	2.8	3
92	Theoretical Electron Mobility Analysis in Thin-Body FETs: Dependence on Substrate Orientation and Biaxial Strain. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 334-340	2.6	3
91	Strain engineering for CMOS devices 2006 ,		3
90	Electron Inversion Layer Mobility Enhancement by Uniaxial Stress on (001) and (110) Oriented MOSFETs 2006 ,		3
89	Role of edge electron states in the formation of edge magnetoplasmons. <i>Physical Review B</i> , 1996 , 54, 16333-16336	3.3	3
88	Scaling, Power Consumption, and Mobility Enhancement Techniques. <i>Computational Microelectronics</i> , 2011 , 5-22		3
87	Numerical Analysis of Deterministic Switching of a Perpendicularly Magnetized Spin-Orbit Torque Memory Cell. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 61-67	2.3	3
86	Switching current reduction in advanced spin-orbit torque MRAM 2018 ,		3
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85	Magnetic Tunnel Junctions with a Composite Free Layer: A New Concept for Future Universal Memory	93-101	3
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77	Domain-wall spintronic memristor for capacitance and inductance sensing 2011,		2
76	Switching time and current reduction using a composite free layer in magnetic tunnel junctions 2011 ,		2
75	Thickness Dependence of the Effective Masses in a Strained Thin Silicon Film 2009,		2
74	The Linear Combination of Bulk Bands-Method for Electron and Hole Subband Calculations in Strained Silicon Films and Surface Layers 2009 ,		2
73	Mobility enhancement in thin silicon films: Strain and thickness dependences of the effective masses and non-parabolicity parameter 2008 ,		2
72	Modeling current transport in ultra-scaled field-effect transistors. <i>Microelectronics Reliability</i> , 2007 , 47, 11-19	1.2	2
71	Electron subband dispersions in ultra-thin silicon films from a two-band k?p theory. <i>Journal of Computational Electronics</i> , 2008 , 7, 164-167	1.8	2
70	Wigner Monte Carlo Simulation: Particle Annihilation and Device Applications 2006,		2
69	Quantum mechanical modeling of advanced sub-10 nm MOSFETs		2
68	Subelectron transport in single-electron-tunneling arrays. Physical Review B, 2002, 65,	3.3	2
68 67	Subelectron transport in single-electron-tunneling arrays. <i>Physical Review B</i> , 2002 , 65, Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1776-1777	3·3 2.8	2
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67	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1776-1777 Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM		2
67 66	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1776-1777 Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM Cells 2020 ,		2
67 66 65	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. Physica B: Condensed Matter, 2000, 284-288, 1776-1777 Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM Cells 2020, Classical Device Modeling 2011, 1-96 Influence of magnetization variations in the free layer on a non-volatile magnetic flip flop.	2.8	2 2 2
67 66 65 64	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. Physica B: Condensed Matter, 2000, 284-288, 1776-1777 Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM Cells 2020, Classical Device Modeling 2011, 1-96 Influence of magnetization variations in the free layer on a non-volatile magnetic flip flop. Solid-State Electronics, 2015, 108, 2-7 Conductance in a Nanoribbon of Topologically Insulating MoS2 in the 1TIPhase. IEEE Transactions	2.8	2 2 1
67 66 65 64	Stability of the maximum-density droplet state in quantum dots: a quantum Monte Carlo study. Physica B: Condensed Matter, 2000, 284-288, 1776-1777 Efficient Demagnetizing Field Calculation for Disconnected Complex Geometries in STT-MRAM Cells 2020, Classical Device Modeling 2011, 1-96 Influence of magnetization variations in the free layer on a non-volatile magnetic flip flop. Solid-State Electronics, 2015, 108, 2-7 Conductance in a Nanoribbon of Topologically Insulating MoS2 in the 1TIPhase. IEEE Transactions on Electron Devices, 2020, 67, 4687-4690 Enhancement of Electron Spin Relaxation Time in Thin SOI Films by Spin Injection Orientation and	2.8	2 2 2 1

59	Non-volatility by spin in modern nanoelectronics 2017,		1
58	Influence of valley splitting on spin relaxation time in a strained thin silicon film 2015,		1
57	Influence of device geometry on the non-volatile magnetic flip flop characteristics 2014,		1
56	Reduction of surface roughness induced spin relaxation in SOI MOSFETs 2012,		1
55	Using strain to increase the reliability of scaled spin MOSFETs 2013,		1
54	A stochastic model of bipolar resistive switching in metal-oxide-based memory 2010 ,		1
53	Modeling demands for nanoscale devices 2010 ,		1
52	Stochastic modeling of the resistive switching mechanism in oxide-based memory 2010 ,		1
51	Transport properties of spin field-effect transistors built on Si and InAs 2011,		1
50	Impact of Confinement of Semiconductor and Band Engineering on Future Device Performance. <i>ECS Transactions</i> , 2009 , 19, 15-26	1	1
49	Impact of OBiD bond angle fluctuations on the SiD bond-breakage rate. <i>Microelectronics Reliability</i> , 2009 , 49, 998-1002	1.2	1
48	Simulation of field-effect Biosensors (BioFETs) 2008,		1
47	Self-Consistent Wigner Monte Carlo Simulations of Current in Emerging Nanodevices: Role of Tunneling and Scattering. <i>AIP Conference Proceedings</i> , 2007 ,	O	1
46	Temperature scaling of CMOS circuit power consumption. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 151-152	3	1
45	Plasma Waves in a Finite Superlattice. <i>Physica Status Solidi (B): Basic Research</i> , 1994 , 181, 161-168	1.3	1
44	Topologically Protected and Conventional Subbands in a 1TIIMoS2 Nanoribbon Channel 2020 ,		1
43	Comprehensive Modeling of Coupled Spin and Charge Transport through Magnetic Tunnel Junctions 2020 ,		1
42	Evaluation of Spin Lifetime in Thin-Body FETs: A High Performance Computing Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 285-292	0.9	1

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41	Modeling of the SET and RESET Process in Bipolar Resistive Oxide-Based Memory Using Monte Carlo Simulations. <i>Lecture Notes in Computer Science</i> , 2011 , 87-94	0.9	1
40	Silicon-on-insulator for spintronic applications: spin lifetime and electric spin manipulation. <i>ChemistrySelect</i> , 2016 , 1,	1.8	1
39	Efficient two-level parallelization approach to evaluate spin relaxation in a strained thin silicon film. <i>Journal of Computational Electronics</i> , 2019 , 18, 28-36	1.8	1
38	Finite element modeling of spinBrbit torques. Solid-State Electronics, 2022, 194, 108323	1.7	1
37	Double Reference Layer STT-MRAM Structures with Improved Performance. <i>Solid-State Electronics</i> , 2022 , 194, 108335	1.7	1
36	Electron Subbands in Thin Silicon Films. Computational Microelectronics, 2011, 131-167		О
35	Emerging CMOS Compatible Magnetic Memories and Logic. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 456-463	2.3	0
34	Subbands in a nanoribbon of topologically insulating MoS2 in the 1T? phase. <i>Solid-State Electronics</i> , 2021 , 184, 108081	1.7	О
33	Temperature increase in STT-MRAM at writing: A fully three-dimensional finite element approach. <i>Solid-State Electronics</i> , 2022 , 193, 108269	1.7	О
32	Interface Effects in Ultra-Scaled MRAM Cells. Solid-State Electronics, 2022, 108373	1.7	О
31	Current and shot noise at spin-dependent hopping through junctions with ferromagnetic contacts. <i>Solid-State Electronics</i> , 2019 , 159, 43-50	1.7	
30	Ballistic Conductance in a Topological 1T '-MoS2 Nanoribbon. <i>Semiconductors</i> , 2020 , 54, 1713-1715	0.7	
29	Electron Momentum and Spin Relaxation in Silicon Films. Mathematics in Industry, 2016, 695-700	0.2	
28	Progress in Magnetoresistive Memory: Magnetic Tunnel Junctions with a Composite Free Layer. <i>International Journal of High Speed Electronics and Systems</i> , 2014 , 23, 1450014	0.5	
27	Demands of Transport Modeling in Advanced MOSFETs. Computational Microelectronics, 2011, 169-237		
26	Impact of the Surrounding Network on the Si-O Bond-Breakage Energetics. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1177, 31		
25	Perspectives of Silicon for Future Spintronic Applications From the Peculiarities of the Subband Structure in Thin Films. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 737-743	2.6	
24	Silicon for Spintronic Applications: Strain-Enhanced Valley Splitting 2010 , 281-291		

23	Mobility Modeling in Advanced MOSFETs with Ultra-Thin Silicon Body under Stress. <i>ECS Transactions</i> , 2008 , 14, 159-168	1
22	Shot noise in frustrated single-electron arrays. <i>Applied Physics Letters</i> , 2003 , 83, 2662-2664	3.4
21	Effect of electromagnetic environment on transport of composite fermions in a narrow constriction between compressible quantum Hall liquids. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1730-1731	2.8
20	Influence of dynamical screening on the superconducting transition temperature. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2949-2950	1.3
19	On the Theory of Surface Plasma Waves in Superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 1991 , 165, K59-K62	1.3
18	Improving failure rates in pulsed SOT-MRAM switching by reinforcement learning. <i>Microelectronics Reliability</i> , 2021 , 126, 114231	1.2
17	Shot Noise at 2D Hopping. Journal of the Physical Society of Japan, 2003, 72, 149-150	1.5
16	Quantum Correction to the Semiclassical Electron-Phonon Scattering Operator. <i>Lecture Notes in Computer Science</i> , 2006 , 594-601	0.9
15	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> , 2008 , 157-164	0.9
14	Stateful STT-MRAM-Based Logic for Beyondlon Neumann Computing 2017 , 221-249	
14	Stateful STT-MRAM-Based Logic for Beyond Von Neumann Computing 2017, 221-249 Demands for spin-based nonvolatility in emerging digital logic and memory devices for low power computing. Facta Universitatis - Series Electronics and Energetics, 2018, 31, 529-545	0.4
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LIST OF PUBLICATIONS

5	Uniaxial Shear Strain as a Mechanism to Increase Spin Lifetime in Thin Film of a SOI-Based Silicon Spin FETs. <i>Engineering Materials</i> , 2014 , 127-149	0.4
4	Analysis of Switching Under Fixed Voltage and Fixed Current in Perpendicular STT-MRAM. <i>IEEE Journal of the Electron Devices Society</i> , 2020 , 8, 1249-1256	2.3
3	Two-pulse switching scheme and reinforcement learning for energy efficient SOT-MRAM simulations. <i>Solid-State Electronics</i> , 2021 , 185, 108075	1.7
2	Edge modes and their conductance in narrow nanoribbons of 2D materials in a topological phase. <i>Solid-State Electronics</i> , 2022 , 193, 108266	1.7
1	Reinforcement learning to reduce failures in SOT-MRAM switching. <i>Microelectronics Reliability</i> , 2022 , 135, 114570	1.2