Iuliana P Radu

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.

 186
 5,251
 38
 67

 papers
 citations
 h-index
 g-index

 201
 6,309
 5.4
 5.28

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
186	Ab initio study of ultrafast spin dynamics in Gdx(FeCo) 1☑ alloys. <i>Applied Physics Letters</i> , 2022 , 120, 0424	19.14	O
185	Magnetic field sensitivity of the photoelectrically read nitrogen-vacancy centers in diamond. <i>Applied Physics Letters</i> , 2022 , 120, 162402	3.4	O
184	Linking Room- and Low-Temperature Electrical Performance of MOS Gate Stacks for Cryogenic Applications. <i>IEEE Electron Device Letters</i> , 2022 , 43, 674-677	4.4	
183	Efficient Modeling of Charge Trapping at Cryogenic Temperatures Part I: Theory. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 6365-6371	2.9	1
182	Efficient Modeling of Charge Trapping at Cryogenic Temperatures Part II: Experimental. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 6372-6378	2.9	1
181	Graphene based Van der Waals contacts on MoS2 field effect transistors. 2D Materials, 2021, 8, 015003	5.9	10
180	Fabrication and room temperature characterization of trilayer junctions for the development of superconducting qubits on 300 mm wafers. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SBBI04	1.4	O
179	Electrical spin-wave spectroscopy in nanoscale waveguides with nonuniform magnetization. <i>Applied Physics Letters</i> , 2021 , 118, 152410	3.4	3
178	All-Electrical Control of Scaled Spin Logic Devices Based on Domain Wall Motion. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 2116-2122	2.9	2
177	Magnonic band structure in CoFeB/Ta/NiFe meander-shaped magnetic bilayers. <i>Applied Physics Letters</i> , 2021 , 118, 162405	3.4	7
176	Measurement of direct and indirect bandgaps in synthetic ultrathin MoS2 and WS2 films from photoconductivity spectra. <i>Journal of Applied Physics</i> , 2021 , 129, 155302	2.5	2
175	Processing Stability of Monolayer WS2 on SiO2. <i>Nano Express</i> , 2021 , 2, 024004	2	1
174	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 295101	3	O
173	Engineering Wafer-Scale Epitaxial Two-Dimensional Materials through Sapphire Template Screening for Advanced High-Performance Nanoelectronics. <i>ACS Nano</i> , 2021 , 15, 9482-9494	16.7	6
172	Nanoscale domain wall devices with magnetic tunnel junction read and write. <i>Nature Electronics</i> , 2021 , 4, 392-398	28.4	9
171	Impact of device scaling on the electrical properties of MoS field-effect transistors. <i>Scientific Reports</i> , 2021 , 11, 6610	4.9	4
170	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	8

(2020-2021)

169	Low dephasing and robust micromagnet designs for silicon spin qubits. <i>Applied Physics Letters</i> , 2021 , 119, 094001	3.4	2
168	Interface admittance measurement and simulation of dual gated CVD WS2 MOSCAPs: Mapping the DIT(E) profile. <i>Solid-State Electronics</i> , 2021 , 183, 108035	1.7	
167	Magnonic Band Structure in Vertical Meander-Shaped Co40Fe40B20 Thin Films. <i>Physical Review Applied</i> , 2021 , 15,	4.3	10
166	High mobility SiMOSFETs fabricated in a full 300 mm CMOS process. <i>Materials for Quantum Technology</i> , 2021 , 1, 041001		2
165	Back hopping in spin transfer torque switching of perpendicularly magnetized tunnel junctions. <i>Physical Review B</i> , 2020 , 102,	3.3	7
164	An Integrated Silicon MOS Single-Electron Transistor Charge Sensor for Spin-Based Quantum Information Processing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1253-1256	4.4	O
163	A MOS capacitor model for ultra-thin 2D semiconductors: the impact of interface defects and channel resistance. 2D Materials, 2020 , 7, 035018	5.9	7
162	Analysis of Transferred MoS2 Layers Grown by MOCVD: Evidence of Mo Vacancy Related Defect Formation. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 093001	2	5
161	Sources of variability in scaled MoS2 FETs 2020 ,		6
160	A flexible 300 mm integrated Si MOS platform for electron- and hole-spin qubits exploration 2020 ,		6
159	Future Logic Scaling: Towards Atomic Channels and Deconstructed Chips 2020 ,		8
158	3D Sequential Low Temperature Top Tier Devices using Dopant Activation with Excimer Laser Anneal and Strained Silicon as Performance Boosters 2020 ,		5
157	Two-dimensional WS2 crystals at predetermined locations by anisotropic growth during atomic layer deposition. <i>Journal of Applied Physics</i> , 2020 , 128, 175302	2.5	1
156	Electronic voltage control of magnetic anisotropy at room temperature in high-ISrTiO3/Co/Pt trilayer. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
155	MoS2/MoTe2 Heterostructure Tunnel FETs Using Gated Schottky Contacts. <i>Advanced Functional Materials</i> , 2020 , 30, 1905970	15.6	21
154	Quantum Mechanical Charge Trap Modeling to Explain BTI at Cryogenic Temperatures 2020,		4
153	Reliability and Variability of Advanced CMOS Devices at Cryogenic Temperatures 2020,		11
152	Reconfigurable submicrometer spin-wave majority gate with electrical transducers. <i>Science Advances</i> , 2020 , 6,	14.3	18

151	Understanding Ambipolar Transport in MoSField Effect Transistors: the Substrate is the Key. <i>Nanotechnology</i> , 2020 ,	3.4	4
150	Ferroelectric Control of Magnetism in Ultrathin HfOCoPt Layers. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 34385-34393	9.5	6
149	Evaluation of the effective work-function of monolayer graphene on silicon dioxide by internal photoemission spectroscopy. <i>Thin Solid Films</i> , 2019 , 674, 39-43	2.2	3
148	Spin-on-diffussants for doping in transition metal dichalcogenide semiconductors. <i>Applied Physics Letters</i> , 2019 , 114, 212102	3.4	1
147	Performance Comparison of s-Si, In0.53Ga0.47As, Monolayer BP, and WS2-Based n-MOSFETs for Future Technology NodesPart I: Device-Level Comparison. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3608-3613	2.9	3
146	Analysis of admittance measurements of MOS capacitors on CVD grown bilayer MoS 2. <i>2D Materials</i> , 2019 , 6, 035035	5.9	14
145	A route towards the fabrication of 2D heterostructures using atomic layer etching combined with selective conversion. <i>2D Materials</i> , 2019 , 6, 035030	5.9	3
144	Chemical vapor deposition of monolayer-thin WS crystals from the WF and HS precursors at low deposition temperature. <i>Journal of Chemical Physics</i> , 2019 , 150, 104703	3.9	7
143	Performance Comparison of s-Si, In0.53Ga0.47As, Monolayer BP- and WS2-Based n-MOSFETs for Future Technology NodesPart II: Circuit-Level Comparison. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3614-3619	2.9	
142	Device and Circuit Level Gate Configuration Optimization for 2D Material Field-Effect Transistors 2019 ,		2
141	Ultra-scaled MOCVD MoS2 MOSFETs with 42nm contact pitch and 250µA/µm drain current 2019 ,		17
140	The Growing Application Field of Laser Debonding: From Advanced Packaging to Future Nanoelectronics 2019 ,		3
139	Impact of MoS layer transfer on electrostatics of MoS/SiO interface. <i>Nanotechnology</i> , 2019 , 30, 055702	3.4	10
138	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. Journal Physics D: Applied Physics, 2018, 51, 114007	3	16
137	Relation between film thickness and surface doping of MoS2 based field effect transistors. <i>APL Materials</i> , 2018 , 6, 058301	5.7	8
136	MoS2 synthesis by gas source MBE for transition metal dichalcogenides integration on large scale substrates. <i>Journal of Applied Physics</i> , 2018 , 123, 135702	2.5	15
135	Fabrication of magnetic tunnel junctions connected through a continuous free layer to enable spin logic devices. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FN01	1.4	8
134	Wide operating window spin-torque majority gate towards large-scale integration of logic circuits. AIP Advances, 2018, 8, 055920	1.5	4

133	Interconnected magnetic tunnel junctions for spin-logic applications. AIP Advances, 2018, 8, 055921	1.5	6
132	Material-Device-Circuit Co-Design of 2-D Materials-Based Lateral Tunnel FETs. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 979-986	2.3	4
131	Towards high-performance polarity-controllable FETs with 2D materials 2018,		3
130	Tunneling Transistors Based on MoS2/MoTe2 Van der Waals Heterostructures. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 1048-1055	2.3	26
129	Nucleation and growth mechanism of 2D SnS 2 by chemical vapor deposition: initial 3D growth followed by 2D lateral growth. <i>2D Materials</i> , 2018 , 5, 035006	5.9	15
128	The conversion mechanism of amorphous silicon to stoichiometric WS2. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4122-4130	7.1	8
127	Microwave Characterization of Ba-Substituted PZT and ZnO Thin Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 881-888	3.2	5
126	Doping-Free Complementary Logic Gates Enabled by Two-Dimensional Polarity-Controllable Transistors. <i>ACS Nano</i> , 2018 , 12, 7039-7047	16.7	69
125	Layer-controlled epitaxy of 2D semiconductors: bridging nanoscale phenomena to wafer-scale uniformity. <i>Nanotechnology</i> , 2018 , 29, 425602	3.4	41
124	Thermal recrystallization of short-range ordered WS2 films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 05G501	2.9	4
123	Nucleation mechanism during WS2 plasma enhanced atomic layer deposition on amorphous Al2O3 and sapphire substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 01A105	2.9	24
122	First experimental demonstration of a scalable linear majority gate based on spin waves 2018,		7
121	Scaled spintronic logic device based on domain wall motion in magnetically interconnected tunnel junctions 2018 ,		5
120	Instant-On Spin Torque in Noncollinear Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018 , 10,	4.3	6
119	Interconnect-Device Co-Optimization for Field-Effect Transistors with Two-Dimensional Materials 2018 ,		1
118	. IEEE Nanotechnology Magazine, 2018 , 17, 1259-1269	2.6	52
117	Chain of magnetic tunnel junctions as a spintronic memristor. <i>Journal of Applied Physics</i> , 2018 , 124, 15	21 <u>1</u> .6	12
116	3-D Sequential Stacked Planar Devices Featuring Low-Temperature Replacement Metal Gate Junctionless Top Devices With Improved Reliability. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 51	65 - 517	17

115	Spin-Wave Emission by Spin-Orbit-Torque Antennas. <i>Physical Review Applied</i> , 2018 , 10,	4.3	18
114	Two-Dimensional Crystal Grain Size Tuning in WS2 Atomic Layer Deposition: An Insight in the Nucleation Mechanism. <i>Chemistry of Materials</i> , 2018 , 30, 7648-7663	9.6	32
113	The Role of Nonidealities in the Scaling of MoS2 FETs. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4635-4640	2.9	8
112	Spin-torque-driven MTJs with extended free layer for logic applications. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 275002	3	3
111	Formation mechanism of 2D SnS2 and SnS by chemical vapor deposition using SnCl4 and H2S. Journal of Materials Chemistry C, 2018 , 6, 6172-6178	7.1	33
110	Two-dimensional WS nanoribbon deposition by conversion of pre-patterned amorphous silicon. <i>Nanotechnology</i> , 2017 , 28, 04LT01	3.4	17
109	On the electrostatic control achieved in transistors based on multilayered MoS2: A first-principles study. <i>Journal of Applied Physics</i> , 2017 , 121, 044505	2.5	14
108	Non-volatile spin wave majority gate at the nanoscale. <i>AIP Advances</i> , 2017 , 7, 056020	1.5	24
107	Toward an Understanding of the Electric Field-Induced Electrostatic Doping in van der Waals Heterostructures: A First-Principles Study. <i>ACS Applied Materials & Doping in Van der Waals ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	15
106	Scaling trends and performance evaluation of 2-dimensional polarity-controllable FETs. <i>Scientific Reports</i> , 2017 , 7, 45556	4.9	9
105	Paramagnetic Intrinsic Defects in Polycrystalline Large-Area 2D MoS Films Grown on SiO by Mo Sulfurization. <i>Nanoscale Research Letters</i> , 2017 , 12, 283	5	12
104	Highly efficient and stable MoS FETs with reversible n-doping using a dehydrated poly(vinyl-alcohol) coating. <i>Nanoscale</i> , 2017 , 9, 258-265	7.7	30
103	. IEEE Transactions on Electron Devices, 2017 , 64, 2970-2976	2.9	3
102	(Invited) Electrical Atomic Force Microscopy for 2D Transition Metal Dichalcogenide Materials. <i>ECS Transactions</i> , 2017 , 77, 41-47	1	
101	Low Energy Phosphorus Plasma Implantation for Isolation of MoS 2 Devices. <i>ECS Transactions</i> , 2017 , 77, 3-8	1	1
100	Demonstration of 2e12 cmaeVa 2D-oxide interface trap density on back-gated MoS2 flake devices with 2.5 nm EOT. <i>Microelectronic Engineering</i> , 2017 , 178, 145-149	2.5	8
99	Operating conditions and stability of spin torque majority gates: Analytical understanding and numerical evidence. <i>Journal of Applied Physics</i> , 2017 , 121, 043902	2.5	7
98	Plasma-Enhanced Atomic Layer Deposition of Two-Dimensional WS2 from WF6, H2 Plasma, and H2S. <i>Chemistry of Materials</i> , 2017 , 29, 2927-2938	9.6	57

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97	Nucleation and growth mechanisms of AlO atomic layerdeposition on synthetic polycrystalline MoS. <i>Journal of Chemical Physics</i> , 2017 , 146, 052810	3.9	31
96	Electrically Driven Unidirectional Optical Nanoantennas. <i>Nano Letters</i> , 2017 , 17, 7433-7439	11.5	40
95	(Invited) Internal Photoemission of Electrons from 2-Dimensional Semiconductors. <i>ECS Transactions</i> , 2017 , 80, 191-201	1	12
94	Exchange-driven Magnetic Logic. <i>Scientific Reports</i> , 2017 , 7, 12154	4.9	14
93	Terahertz Spin Currents and Inverse Spin Hall Effect in Thin-Film Heterostructures Containing Complex Magnetic Compounds. <i>Spin</i> , 2017 , 07, 1740010	1.3	52
92	From the metal to the channel: a study of carrier injection through the metal/2D MoS interface. <i>Nanoscale</i> , 2017 , 9, 10869-10879	7.7	40
91	MoS2 Functionalization with a Sub-nm Thin SiO2 Layer for Atomic Layer Deposition of High-Dielectrics. <i>Chemistry of Materials</i> , 2017 , 29, 6772-6780	9.6	19
90	Improving MOCVD MoS2 Electrical Performance: Impact of Minimized Water and Air Exposure Conditions. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1606-1609	4.4	28
89	Micromagnetic simulations of magnetoelastic spin wave excitation in scaled magnetic waveguides. <i>Applied Physics Letters</i> , 2017 , 111, 192411	3.4	21
88	Material-Device-Circuit Co-optimization of 2D Material based FETs for Ultra-Scaled Technology Nodes. <i>Scientific Reports</i> , 2017 , 7, 5016	4.9	13
87	Transistors on two-dimensional semiconductors: contact resistance limited by the contact edges 2017 ,		4
86	Spin waves for interconnect applications 2017 ,		2
85	Modulating the resistivity of MoS2 through low energy phosphorus plasma implantation. <i>Applied Physics Letters</i> , 2017 , 110, 262102	3.4	12
84	Doping of graphene for the application in nano-interconnect. <i>Microelectronic Engineering</i> , 2017 , 167, 42-46	2.5	10
83	Evaluation of multilayer graphene for advanced interconnects. <i>Microelectronic Engineering</i> , 2017 , 167, 1-5	2.5	7
82	Benchmarking of monolithic 3D integrated MX2 FETs with Si FinFETs 2017 ,		3
81	Perpendicular magnetic anisotropy of CoFeBTa bilayers on ALD HfO2. AIP Advances, 2017, 7, 055933	1.5	6
80	Proposal for nanoscale cascaded plasmonic majority gates for non-Boolean computation. <i>Scientific Reports</i> , 2017 , 7, 17866	4.9	11

79	Tunneling transistors based on MoS2/MoTe2 Van der Waals heterostructures 2017,		1
78	WS2 transistors on 300 mm wafers with BEOL compatibility 2017 ,		18
77	Demonstration of Direction Dependent Conduction through MoS2Films Prepared by Tunable Mass Transport Fabrication. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, Q3046-Q3049	2	4
76	High-Field High-Repetition-Rate Sources for the Coherent THz Control of Matter. <i>Scientific Reports</i> , 2016 , 6, 22256	4.9	89
75	Effect of material parameters on two-dimensional materials based TFETs: An energy-delay perspective 2016 ,		7
74	Overview of spin-based majority gates and interconnect implications 2016,		1
73	Single- and multilayer graphene wires as alternative interconnects. <i>Microelectronic Engineering</i> , 2016 , 156, 131-135	2.5	15
72	Multilayer MoS2 growth by metal and metal oxide sulfurization. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1295-1304	7.1	45
71	Controlled Sulfurization Process for the Synthesis of Large Area MoS2 Films and MoS2/WS2 Heterostructures. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500635	4.6	53
70	Structural and magnetic characterization of large area, free-standing thin films of magnetic ion intercalated dichalcogenides Mn0.25TaS2 and Fe0.25TaS2. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 356002	1.8	7
69	Insight on the Characterization of MoS2Based Devices and Requirements for Logic Device Integration. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, Q3072-Q3081	2	26
68	Origin of the performances degradation of two-dimensional-based metal-oxide-semiconductor field effect transistors in the sub-10 nm regime: A first-principles study. <i>Applied Physics Letters</i> , 2016 , 108, 043504	3.4	4
67	Comparison of short-channel effects in monolayer MoS2 based junctionless and inversion-mode field-effect transistors. <i>Applied Physics Letters</i> , 2016 , 108, 023506	3.4	13
66	Molecular doping of MoS2 transistors by self-assembled oleylamine networks. <i>Applied Physics Letters</i> , 2016 , 109, 253112	3.4	37
65	Transport properties of chemically synthesized MoS2 Dielectric effects and defects scattering. <i>Applied Physics Letters</i> , 2016 , 109, 233102	3.4	11
64	All electrical propagating spin wave spectroscopy with broadband wavevector capability. <i>Applied Physics Letters</i> , 2016 , 109, 012403	3.4	45
63	Perpendicular magnetic anisotropy of CoPt bilayers on ALD HfO2. <i>Journal of Applied Physics</i> , 2016 , 120, 163903	2.5	7
62	Polarity control in WSe2 double-gate transistors. <i>Scientific Reports</i> , 2016 , 6, 29448	4.9	45

(2015-2016)

61	Toward error-free scaled spin torque majority gates. AIP Advances, 2016, 6, 065304	1.5	10
60	Efficient metallic spintronic emitters of ultrabroadband terahertz radiation. <i>Nature Photonics</i> , 2016 , 10, 483-488	33.9	324
59	(Invited) Heterogeneous Nano- to Wide-Scale Co-Integration of Beyond-Si and Si CMOS Devices to Enhance Future Electronics. <i>ECS Transactions</i> , 2015 , 66, 3-14	1	6
58	High-quality, large-area MoSe2 and MoSe2/Bi2Se3 heterostructures on AlN(0001)/Si(111) substrates by molecular beam epitaxy. <i>Nanoscale</i> , 2015 , 7, 7896-905	7.7	107
57	Band alignment at interfaces of few-monolayer MoS2 with SiO2 and HfO2. <i>Microelectronic Engineering</i> , 2015 , 147, 294-297	2.5	27
56	Switching mechanism in two-terminal vanadium dioxide devices. <i>Nanotechnology</i> , 2015 , 26, 165202	3.4	40
55	In situ X-ray diffraction study of the controlled oxidation and reduction in the VD system for the synthesis of VO2 and V2O3 thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11357-11365	7.1	44
54	High Cycling Stability and Extreme Rate Performance in Nanoscaled LiMn2O4 Thin Films. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 1, 22413-20	9.5	48
53	Dynamical influence of vortexIntivortex pairs in magnetic vortex oscillators. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 394, 292-298	2.8	5
52	Characterization of thin films of the solid electrolyte $Li(x)Mg(1-2x)Al(2+x)O4$ (x = 0, 0.05, 0.15, 0.25). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29045-56	3.6	5
51	ALICEAn advanced reflectometer for static and dynamic experiments in magnetism at synchrotron radiation facilities. <i>Review of Scientific Instruments</i> , 2015 , 86, 063902	1.7	21
50	Low temperature deposition of 2D WS2 layers from WF6 and H2S precursors: impact of reducing agents. <i>Chemical Communications</i> , 2015 , 51, 15692-5	5.8	56
49	Deducing the apparent flat-band position Vafb and the doping level of large area single layer graphene MOS capacitors. <i>Microelectronic Engineering</i> , 2015 , 147, 314-317	2.5	3
48	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015 , 05, 1550004	1.3	69
47	Metal-Insulator Transition in ALD VO2 Ultrathin Films and Nanoparticles: Morphological Control. <i>Advanced Functional Materials</i> , 2015 , 25, 679-686	15.6	60
46	Band alignment and effective work function of atomic-layer deposited VO2 and V2O5 films on SiO2 and Al2O3. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 238-241		5
45	Spintronic majority gates 2015 ,		14
44	Probing ultrafast spin dynamics with high-harmonic magnetic circular dichroism spectroscopy. <i>Physical Review B</i> , 2015 , 92,	3.3	49

43	Transition metal contacts to graphene. <i>Applied Physics Letters</i> , 2015 , 107, 153104	3.4	31
42	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. <i>Springer Proceedings in Physics</i> , 2015 , 30-31	0.2	
41	Benchmarking of MoS2 FETs With Multigate Si-FET Options for 5 nm and Beyond. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 4051-4056	2.9	22
40	Graphene wires as alternative interconnects 2015 ,		3
39	Area and routing efficiency of SWD circuits compared to advanced CMOS 2015,		2
38	Design and benchmarking of hybrid CMOS-Spin Wave Device Circuits compared to 10nm CMOS 2015 ,		25
37	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, 297-299	0.2	1
36	Large Area Carbon Nanosheet Capacitors. <i>ECS Solid State Letters</i> , 2014 , 3, N8-N10		5
35	Low leakage Ru-strontium titanate-Ru metal-insulator-metal capacitors for sub-20 nm technology node in dynamic random access memory. <i>Applied Physics Letters</i> , 2014 , 104, 082908	3.4	28
34	Ultrathin Metal/Amorphous-Silicon/Metal Diode for Bipolar RRAM Selector Applications. <i>IEEE Electron Device Letters</i> , 2014 , 35, 199-201	4.4	36
33	System-level assessment and area evaluation of Spin Wave logic circuits 2014 ,		9
32	Crystallization and semiconductor-metal switching behavior of thin VO2 layers grown by atomic layer deposition. <i>Thin Solid Films</i> , 2014 , 550, 59-64	2.2	27
31	Bilayer Graphene Tunneling FET for Sub-0.2 V Digital CMOS Logic Applications. <i>IEEE Electron Device Letters</i> , 2014 , 35, 1308-1310	4.4	6
30	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. <i>Nature Materials</i> , 2013 , 12, 293-8	27	225
29	(Invited) Vanadium Dioxide for Selector Applications. <i>ECS Transactions</i> , 2013 , 58, 249-258	1	12
28	Synthesis of large area carbon nanosheets for energy storage applications. <i>Carbon</i> , 2013 , 58, 59-65	10.4	44
27	Terahertz spin current pulses controlled by magnetic heterostructures. <i>Nature Nanotechnology</i> , 2013 , 8, 256-60	28.7	303
26	Complementary Role of Field and Temperature in Triggering ON/OFF Switching Mechanisms in \${rm Hf}/{rm HfO}_{2}\$ Resistive RAM Cells. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2471-2478	2.9	34

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25	Coupling of spin and vibrational degrees of freedom of adsorbates at metal surfaces probed by vibrational sum-frequency generation. <i>Applied Physics Letters</i> , 2013 , 103, 132403	3.4	1
24	The VO2 interface, the metal-insulator transition tunnel junction, and the metal-insulator transition switch On-Off resistance. <i>Journal of Applied Physics</i> , 2012 , 112, 124501	2.5	42
23	Process Study and Characterization of VO2Thin Films Synthesized by ALD Using TEMAV and O3Precursors. <i>ECS Journal of Solid State Science and Technology</i> , 2012 , 1, P169-P174	2	39
22	Perpendicular exchange bias in ferrimagnetic spin valves. <i>Nature Communications</i> , 2012 , 3, 715	17.4	99
21	VO2, a Metal-Insulator Transition Material for Nanoelectronic Applications. <i>ECS Transactions</i> , 2012 , 45, 151-158	1	5
20	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011 , 472, 205-8	50.4	641
19	(Invited) Vanadium Oxide as a Memory Material. ECS Transactions, 2011, 35, 233-243	1	12
18	Laser-induced generation and quenching of magnetization on FeRh studied with time-resolved x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2010 , 81,	3.3	49
17	(Invited) First-Principles Investigation of High-k Dielectrics for Nonvolatile Memories. <i>ECS Transactions</i> , 2010 , 33, 393-407	1	3
16	Laser-induced magnetization dynamics of lanthanide-doped permalloy thin films. <i>Physical Review Letters</i> , 2009 , 102, 117201	7.4	74
15	Antiferromagnetic-ferromagnetic phase transition in FeRh probed by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2008 , 77,	3.3	71
14	Electrical control of spin relaxation in a quantum dot. <i>Physical Review Letters</i> , 2008 , 100, 046803	7.4	193
13	Quasi-particle properties from tunneling in the $v = 5/2$ fractional quantum Hall state. Science, 2008 , 320, 899-902	33.3	253
12	Ultrafast dynamics at lanthanide surfaces: microscopic interaction of the charge, lattice and spin subsystems. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 164004	3	11
11	Spin-dependent tunneling of single electrons into an empty quantum dot. <i>Physical Review B</i> , 2008 , 78,	3.3	30
10	Fractional quantum Hall effect in a quantum point contact at filling fraction 5/2. <i>Nature Physics</i> , 2007 , 3, 561-565	16.2	70
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8	Toward the manipulation of a single spin in an AlGaAs/GaAs single-electron transistor 2006,		3

7	Femtosecond electron and spin dynamics in Gd(0001) studied by time-resolved photoemission and magneto-optics. <i>Physical Review Letters</i> , 2005 , 95, 137402	7.4	77
6	Two-stage Kondo effect in a four-electron artificial atom. <i>Physical Review B</i> , 2005 , 72,	3.3	33
5	Magnetic-field asymmetry of nonlinear transport in carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 256601	7.4	51
4	Publisher Note: Magnetic-Field Asymmetry of Nonlinear Transport in Carbon Nanotubes [Phys. Rev. Lett. 95, 256601 (2005)]. <i>Physical Review Letters</i> , 2005 , 95,	7.4	2
3	Oriented growth of single-wall carbon nanotubes using alumina patterns. <i>Nanotechnology</i> , 2004 , 15, 473-476	3.4	11
2	Coherent optical phonons and parametrically coupled magnons induced by femtosecond laser excitation of the Gd(0001) surface. <i>Physical Review Letters</i> , 2003 , 91, 227403	7.4	84

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