

Jeffrey Bokor

List of Publications by Year in descending order

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195
papers

13,941
citations

34105

52
h-index

23533

111
g-index

200
all docs

200
docs citations

200
times ranked

15420
citing authors

#	ARTICLE	IF	CITATIONS
1	FinFET-a self-aligned double-gate MOSFET scalable to 20 nm. IEEE Transactions on Electron Devices, 2000, 47, 2320-2325.	3.0	1,317
2	MoS ₂ transistors with 1-nanometer gate lengths. Science, 2016, 354, 99-102.	12.6	1,140
3	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	27.8	579
4	Gold Nanoparticle Self-Similar Chain Structure Organized by DNA Origami. Journal of the American Chemical Society, 2010, 132, 3248-3249.	13.7	502
5	Electron thermalization in gold. Physical Review B, 1992, 46, 13592-13595.	3.2	462
6	Direct Chemical Vapor Deposition of Graphene on Dielectric Surfaces. Nano Letters, 2010, 10, 1542-1548.	9.1	439
7	Direct measurement of nonequilibrium electron-energy distributions in subpicosecond laser-heated gold films. Physical Review Letters, 1992, 68, 2834-2837.	7.8	435
8	Diameter-Dependent Electron Mobility of InAs Nanowires. Nano Letters, 2009, 9, 360-365.	9.1	353
9	Dynamic threshold-voltage MOSFET (DTMOS) for ultra-low voltage VLSI. IEEE Transactions on Electron Devices, 1997, 44, 414-422.	3.0	350
10	Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. Nature Communications, 2017, 8, 633.	12.8	312
11	Nanofocusing in a metal-insulator-metal gap plasmon waveguide with a three-dimensional linear taper. Nature Photonics, 2012, 6, 838-844.	31.4	308
12	Formation of Bandgap and Subbands in Graphene Nanomeshes with Sub-10 nm Ribbon Width Fabricated via Nanoimprint Lithography. Nano Letters, 2010, 10, 2454-2460.	9.1	302
13	Sub-50 nm P-channel FinFET. IEEE Transactions on Electron Devices, 2001, 48, 880-886.	3.0	243
14	Switching of perpendicularly polarized nanomagnets with spin orbit torque without an external magnetic field by engineering a tilted anisotropy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10310-10315.	7.1	236
15	Bottom-up graphene nanoribbon field-effect transistors. Applied Physics Letters, 2013, 103, .	3.3	218
16	Extremely scaled silicon nano-CMOS devices. Proceedings of the IEEE, 2003, 9, 1860-1873.	21.3	214
17	Sensitivity of double-gate and finfet devices to process variations. IEEE Transactions on Electron Devices, 2003, 50, 2255-2261.	3.0	182
18	Ultrathin-body SOI MOSFET for deep-sub-tenth micron era. IEEE Electron Device Letters, 2000, 21, 254-255.	3.9	173

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19	Label-Free DNA Biosensors Based on Functionalized Carbon Nanotube Field Effect Transistors. Nano Letters, 2009, 9, 530-536.	9.1	173
20	Fabrication of Sub-10-nm Silicon Nanowire Arrays by Size Reduction Lithography. Journal of Physical Chemistry B, 2003, 107, 3340-3343.	2.6	169
21	Radiation Engineering of Optical Antennas for Maximum Field Enhancement. Nano Letters, 2011, 11, 2606-2610.	9.1	165
22	Dopant profiling and surface analysis of silicon nanowires using capacitance-voltage measurements. Nature Nanotechnology, 2009, 4, 311-314.	31.5	159
23	Sub 50-nm FinFET: PMOS. , 0, , .		150
24	Mapping Local Charge Recombination Heterogeneity by Multidimensional Nanospectroscopic Imaging. Science, 2012, 338, 1317-1321.	12.6	145
25	Simulation Studies of Nanomagnet-Based Logic Architecture. Nano Letters, 2008, 8, 4173-4178.	9.1	144
26	Complementary silicide source/drain thin-body MOSFETs for the 20 nm gate length regime. , 0, , .		136
27	Experimental test of Landauer's principle in single-bit operations on nanomagnetic memory bits. Science Advances, 2016, 2, e1501492.	10.3	135
28	Sub-60-nm quasi-planar FinFETs fabricated using a simplified process. IEEE Electron Device Letters, 2001, 22, 487-489.	3.9	131
29	Monolithic Integration of Carbon Nanotube Devices with Silicon MOS Technology. Nano Letters, 2004, 4, 123-127.	9.1	131
30	Ultrafast magnetization reversal by picosecond electrical pulses. Science Advances, 2017, 3, e1603117.	10.3	127
31	Chemical Raman Enhancement of Organic Adsorbates on Metal Surfaces. Physical Review Letters, 2011, 106, 083003.	7.8	123
32	Mechanical elasticity of single and double clamped silicon nanobeams fabricated by the vapor-liquid-solid method. Applied Physics Letters, 2005, 87, 053111.	3.3	122
33	High-intensity terahertz pulses at 1-kHz repetition rate. IEEE Journal of Quantum Electronics, 1996, 32, 1839-1846.	1.9	120
34	Hyperspectral Nanoscale Imaging on Dielectric Substrates with Coaxial Optical Antenna Scan Probes.. Nano Letters, 2011, 11, 1201-1207.	9.1	111
35	A Comparison Study of Symmetric Ultrathin-Body Double-Gate Devices With Metal Source/Drain and Doped Source/Drain. IEEE Transactions on Electron Devices, 2005, 52, 1859-1867.	3.0	103
36	Gate length scaling and threshold voltage control of double-gate MOSFETs. , 0, , .		100

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37	Solid state quantum computer development in silicon with single ion implantation. Journal of Applied Physics, 2003, 94, 7017-7024.	2.5	97
38	Exploring the Thermodynamic Limits of Computation in Integrated Systems: Magnetic Memory, Nanomagnetic Logic, and the Landauer Limit. Physical Review Letters, 2011, 107, 010604.	7.8	86
39	Local negative permittivity and topological phase transition in polar skyrmions. Nature Materials, 2021, 20, 194-201.	27.5	86
40	Magneto-Optical Observation of Picosecond Dynamics of Single Nanomagnets. Nano Letters, 2006, 6, 2939-2944.	9.1	85
41	Short-Channel Transistors Constructed with Solution-Processed Carbon Nanotubes. ACS Nano, 2013, 7, 798-803.	14.6	83
42	Direct observation of imprinted antiferromagnetic vortex states in CoO/Fe/Ag(001) discs. Nature Physics, 2011, 7, 303-306.	16.7	82
43	Electrically Driven Magnetic Domain Wall Rotation in Multiferroic Heterostructures to Manipulate Suspended On-Chip Magnetic Particles. ACS Nano, 2015, 9, 4814-4826.	14.6	78
44	Multiphoton ultraviolet spectroscopy of some 6p levels in krypton. Physical Review A, 1980, 21, 1453-1459.	2.5	72
45	Electrical activation and electron spin coherence of ultralow dose antimony implants in silicon. Applied Physics Letters, 2006, 88, 112101.	3.3	69
46	Interface Engineering of Domain Structures in BiFeO ₃ Thin Films. Nano Letters, 2017, 17, 486-493.	9.1	69
47	Role of electron and phonon temperatures in the helicity-independent all-optical switching of GdFeCo. Physical Review B, 2016, 94, .	3.2	67
48	FinFET process refinements for improved mobility and gate work function engineering. , 0, , .		66
49	Ultimate device scaling: Intrinsic performance comparisons of carbon-based, InGaAs, and Si field-effect transistors for 5 nm gate length. , 2011, , .		65
50	Deterministic Domain Wall Motion Orthogonal To Current Flow Due To Spin Orbit Torque. Scientific Reports, 2015, 5, 11823.	3.3	64
51	Model for multishot all-thermal all-optical switching in ferromagnets. Physical Review B, 2016, 94, .	3.2	63
52	Spin-orbit torque switching of a ferromagnet with picosecond electrical pulses. Nature Electronics, 2020, 3, 680-686.	26.0	63
53	Effect of Diameter Variation in a Large Set of Carbon Nanotube Transistors. Nano Letters, 2006, 6, 1364-1368.	9.1	61
54	Single shot ultrafast all optical magnetization switching of ferromagnetic Co/Pt multilayers. Applied Physics Letters, 2017, 111, .	3.3	60

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55	Extreme ultraviolet carrier-frequency shearing interferometry of a lithographic four-mirror optical system. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 2939.	1.6	58
56	Plasmonic near-field probes: a comparison of the campanile geometry with other sharp tips. <i>Optics Express</i> , 2013, 21, 8166.	3.4	55
57	Size dependent damping in picosecond dynamics of single nanomagnets. <i>Applied Physics Letters</i> , 2007, 90, 202504.	3.3	54
58	A Simulation Study of Gate Line Edge Roughness Effects on Doping Profiles of Short-Channel MOSFET Devices. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 228-232.	3.0	53
59	Progress towards ultrafast spintronics applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166478.	2.3	51
60	Investigation of NiSi and TiSi as CMOS gate materials. <i>IEEE Electron Device Letters</i> , 2003, 24, 634-636.	3.9	48
61	Hydrogen annealing effect on DC and low-frequency noise characteristics in CMOS FinFETs. <i>IEEE Electron Device Letters</i> , 2003, 24, 186-188.	3.9	47
62	Single atom doping for quantum device development in diamond and silicon. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 2596-2600.	1.3	47
63	Electrical activation and electron spin resonance measurements of implanted bismuth in isotopically enriched silicon-28. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	47
64	Nanoscale ultra-thin-body silicon-on-insulator P-MOSFET with a SiGe/Si heterostructure channel. <i>IEEE Electron Device Letters</i> , 2000, 21, 161-163.	3.9	45
65	Influence of Nonuniform Micron-Scale Strain Distributions on the Electrical Reorientation of Magnetic Microstructures in a Composite Multiferroic Heterostructure. <i>Nano Letters</i> , 2018, 18, 1952-1961.	9.1	44
66	Ultrafast magnetic switching of GdFeCo with electronic heat currents. <i>Physical Review B</i> , 2017, 95, .	3.2	43
67	Investigation of Defects and Errors in Nanomagnetic Logic Circuits. <i>IEEE Nanotechnology Magazine</i> , 2012, 11, 760-762.	2.0	42
68	Low-Temperature Side Contact to Carbon Nanotube Transistors: Resistance Distributions Down to 10 nm Contact Length. <i>Nano Letters</i> , 2019, 19, 1083-1089.	9.1	42
69	Manipulating magnetoelectric energy landscape in multiferroics. <i>Nature Communications</i> , 2020, 11, 2836.	12.8	42
70	Role of element-specific damping in ultrafast, helicity-independent, all-optical switching dynamics in amorphous (Gd,Tb)Co thin films. <i>Physical Review B</i> , 2021, 103, .	3.2	40
71	Gate line-edge roughness effects in 50-nm bulk MOSFET devices. , 2002, 4689, 733.		39
72	Spin-dependent scattering off neutral antimony donors in Si28 field-effect transistors. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	39

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73	Ultrafast magnetization switching in nanoscale magnetic dots. Applied Physics Letters, 2019, 114, .	3.3	39
74	FinFET-a quasi-planar double-gate MOSFET. , 0, , .		38
75	Is Gate Line Edge Roughness a First-Order Issue in Affecting the Performance of Deep Sub-Micro Bulk MOSFET Devices?. IEEE Transactions on Semiconductor Manufacturing, 2004, 17, 357-361.	1.7	37
76	Toward Intrinsic Ferroelectric Switching in Multiferroic BiFeO_3 . Physical Review Letters, 2020, 125, 067601.	7.8	37
77	Cavity-Enhanced Magneto-optical Observation of Magnetization Reversal in Individual Single-Domain Nanomagnets. Nano Letters, 2005, 5, 1413-1417.	9.1	36
78	Surface adhesion reduction in silicon microstructures using femtosecond laser pulses. Applied Physics Letters, 1996, 68, 197-199.	3.3	33
79	Bi-directional coupling in strain-mediated multiferroic heterostructures with magnetic domains and domain wall motion. Scientific Reports, 2018, 8, 5207.	3.3	33
80	Detection of low energy single ion impacts in micron scale transistors at room temperature. Applied Physics Letters, 2007, 91, .	3.3	32
81	Disk-shaped magnetic particles for cancer therapy. Applied Physics Reviews, 2020, 7, .	11.3	32
82	High-field transport of inversion-layer electrons and holes including velocity overshoot. IEEE Transactions on Electron Devices, 1997, 44, 664-671.	3.0	31
83	Ultra-thin body SOI MOSFET for deep-sub-tenth micron era. , 0, , .		30
84	Comparative study of solution-processed carbon nanotube network transistors. Applied Physics Letters, 2012, 101, 112104.	3.3	30
85	Design and fabrication of 50-nm thin-body p-MOSFETs with a SiGe heterostructure channel. IEEE Transactions on Electron Devices, 2002, 49, 279-286.	3.0	29
86	Electric current induced ultrafast demagnetization. Physical Review B, 2017, 96, .	3.2	28
87	Ultrafast carrier dynamics on the Si(100)2 \times 1 surface. Physical Review B, 1996, 54, R17300-R17303.	3.2	27
88	Transfer-Free Synthesis of Atomically Precise Graphene Nanoribbons on Insulating Substrates. ACS Nano, 2021, 15, 2635-2642.	14.6	27
89	Harnessing Chemical Raman Enhancement for Understanding Organic Adsorbate Binding on Metal Surfaces. Journal of Physical Chemistry Letters, 2012, 3, 1357-1362.	4.6	26
90	Sub-nanosecond signal propagation in anisotropy-engineered nanomagnetic logic chains. Nature Communications, 2015, 6, 6466.	12.8	26

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91	Electrically Detected Magnetic Resonance of Neutral Donors Interacting with a Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 2011, 106, 207601.	7.8	25
92	Unifying femtosecond and picosecond single-pulse magnetic switching in Gd-Fe-Co. <i>Physical Review B</i> , 2021, 103, .	3.2	25
93	High-performance thin-film transistors produced from highly separated solution-processed carbon nanotubes. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	23
94	Synergetic Bottom-Up Synthesis of Graphene Nanoribbons by Matrix-Assisted Direct Transfer. <i>Journal of the American Chemical Society</i> , 2021, 143, 4174-4178.	13.7	23
95	Reliability study of CMOS FinFETs. , 0, , .		22
96	Single-Domain Multiferroic Array-Addressable Terfenol-D (SMArT) Micromagnets for Programmable Single-Cell Capture and Release. <i>Advanced Materials</i> , 2021, 33, e2006651.	21.0	20
97	Low-frequency noise characteristics in p-channel FinFETs. <i>IEEE Electron Device Letters</i> , 2002, 23, 722-724.	3.9	19
98	Critical issues in the formation of quantum computer test structures by ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2563-2566.	1.4	19
99	Electronic Anabolic Steroid Recognition with Carbon Nanotube Field-Effect Transistors. <i>ACS Nano</i> , 2010, 4, 1473-1480.	14.6	19
100	Cascade-like signal propagation in chains of concave nanomagnets. <i>Applied Physics Letters</i> , 2012, 100, 152406.	3.3	19
101	Channel doping engineering of MOSFET with adaptable threshold voltage using body effect for low voltage and low power applications. , 0, , .		18
102	Remote charge scattering in MOSFETs with ultra-thin gate dielectrics. , 0, , .		18
103	Optimization of nano-magneto-optic sensitivity using dual dielectric layer enhancement. <i>Applied Physics Letters</i> , 2007, 90, 252504.	3.3	18
104	Detection of nanomechanical vibrations by dynamic force microscopy in higher cantilever eigenmodes. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	18
105	Characterization of the junction capacitance of metal-semiconductor carbon nanotube Schottky contacts. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	18
106	Negative Differential Resistance and Steep Switching in Chevron Graphene Nanoribbon Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2018, 39, 143-146.	3.9	18
107	Minimum critical defects in extreme-ultraviolet lithography masks. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 2467.	1.6	17
108	High field hole velocity and velocity overshoot in silicon inversion layers. <i>IEEE Electron Device Letters</i> , 1997, 18, 54-56.	3.9	17

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109	30 nm ultra-thin-body SOI MOSFET with selectively deposited Ge raised S/D. , 0, , .		17
110	Detecting single nanomagnet dynamics beyond the diffraction limit in varying magnetostatic environments. Applied Physics Letters, 2011, 98, .	3.3	17
111	Stark shift and field ionization of arsenic donors in 28Si-silicon-on-insulator structures. Applied Physics Letters, 2014, 104, .	3.3	17
112	Highly uniform carbon nanotube nanomesh network transistors. Nano Research, 2015, 8, 1320-1326.	10.4	17
113	RKKY Exchange Bias Mediated Ultrafast All-Optical Switching of a Ferromagnet. Advanced Functional Materials, 2022, 32, 2107490.	14.9	17
114	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. Small, 2022, 18, .	10.0	17
115	AC output conductance of SOI MOSFETs and impact on analog applications. IEEE Electron Device Letters, 1997, 18, 36-38.	3.9	15
116	Picosecond ultrasonic study of Mo/Si multilayer structures using an alternating-pump technique. Applied Physics Letters, 1999, 74, 320-322.	3.3	15
117	Characterization of the Ultrathin Vertical Channel CMOS Technology. IEEE Transactions on Electron Devices, 2004, 51, 106-112.	3.0	15
118	Ion implantation with scanning probe alignment. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2798.	1.6	15
119	Streptavidin as CNTs and DNA Linker for the Specific Electronic and Optical Detection of DNA Hybridization. Journal of Physical Chemistry C, 2012, 116, 22579-22586.	3.1	15
120	3D multilevel spin transfer torque devices. Applied Physics Letters, 2018, 112, .	3.3	15
121	Bottom-Up Synthesized Nanoporous Graphene Transistors. Advanced Functional Materials, 2021, 31, 2103798.	14.9	15
122	MOSFETs with 9 to 13 Å thick gate oxides. , 0, , .		14
123	Spin-dependent scattering in a silicon transistor. Physical Review B, 2009, 80, .	3.2	14
124	Concave nanomagnets: investigation of anisotropy properties and applications to nanomagnetic logic. Applied Physics A: Materials Science and Processing, 2013, 111, 413-421.	2.3	14
125	Deterministic multi-step rotation of magnetic single-domain state in Nickel nanodisks using multiferroic magnetoelastic coupling. Journal of Magnetism and Magnetic Materials, 2017, 439, 196-202.	2.3	14
126	Enhanced magnetoelectric coupling in a composite multiferroic system via interposing a thin film polymer. AIP Advances, 2018, 8, .	1.3	14

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127	Engineering new limits to magnetostriction through metastability in iron-gallium alloys. Nature Communications, 2021, 12, 2757.	12.8	14
128	Strategies for integration of donor electron spin qubits in silicon. Microelectronic Engineering, 2006, 83, 1814-1817.	2.4	13
129	Design analysis of thin-body silicide source/drain devices. , 0, , .		12
130	Quasi-planar NMOS FinFETs with sub-100 nm gate lengths. , 0, , .		12
131	Low-frequency noise characteristics of ultrathin body p-MOSFETs with molybdenum gate. IEEE Electron Device Letters, 2003, 24, 31-33.	3.9	12
132	Computing in Thermal Equilibrium With Dipole-Coupled Nanomagnets. IEEE Nanotechnology Magazine, 2011, 10, 1401-1404.	2.0	12
133	Improved single ion implantation with scanning probe alignment. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	1.2	12
134	All-Electrical Nuclear Spin Polarization of Donors in Silicon. Physical Review Letters, 2013, 110, 057601.	7.8	12
135	Tunable Magnetoelastic Effects in Voltage-Controlled Exchange-Coupled Composite Multiferroic Microstructures. ACS Applied Materials & Interfaces, 2020, 12, 6752-6760.	8.0	12
136	ArF laser photolysis of OCS _e . II. Effect of vibrational excitation on Se(1S) quantum yields. Journal of Chemical Physics, 1979, 70, 5593-5597.	3.0	11
137	Single ion implantation with scanning probe alignment. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2992.	1.6	11
138	Mapping of ion beam induced current changes in FinFETs. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1222-1225.	1.4	11
139	A Dual Magnetic Tunnel Junction-Based Neuromorphic Device. Advanced Intelligent Systems, 2020, 2, 2000143.	6.1	11
140	Intrinsic Controllable Magnetism of Graphene Grown on Fe. Journal of Physical Chemistry C, 2019, 123, 26870-26876.	3.1	10
141	Electrically controlled switching of the magnetization state in multiferroic $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ submicrometer structures. Physical Review Materials, 2018, 2, .	2.4	10
142	Device fabrication and transport measurements of FinFETs built with ²⁸ Si SOI wafers toward donor qubits in silicon. Semiconductor Science and Technology, 2009, 24, 105022.	2.0	9
143	Electrically detected magnetic resonance in a W-band microwave cavity. Review of Scientific Instruments, 2011, 82, 034704.	1.3	9
144	The Physics of Spin-Transfer Torque Switching in Magnetic Tunneling Junctions in Sub-10 nm Size Range. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9

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145	Statistically meaningful measure of domain-wall roughness in magnetic thin films. Physical Review B, 2020, 101, .	3.2	9
146	Doppler-free spectroscopy of the $\hat{1}/2$ band in $^{14}\text{NH}_3$: Application to ^{16}O $1/4$ m generation. Journal of Applied Physics, 1979, 50, 4541-4544.	2.5	8
147	A bulk-Si-compatible ultrathin-body SOI technology for sub-100 nm MOSFETs. , 0, , .		8
148	Mode shape imaging of out-of-plane and in-plane vibrating RF micromechanical resonators by atomic force microscopy. Microelectronic Engineering, 2007, 84, 1354-1357.	2.4	8
149	Direct optical detection of current induced spin accumulation in metals by magnetization-induced second harmonic generation. Applied Physics Letters, 2015, 107, .	3.3	8
150	Progress toward picosecond on-chip magnetic memory. Applied Physics Letters, 2022, 120, .	3.3	8
151	Contact Engineering for High-Performance N-Type 2D Semiconductor Transistors. , 2021, , .		8
152	Nondestructive picosecond-ultrasonic characterization of Mo/Si extreme ultraviolet multilayer reflection coatings. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 3014.	1.6	7
153	Deterministic doping and the exploration of spin qubits. AIP Conference Proceedings, 2015, , .	0.4	7
154	Effects of Interface Induced Natural Strains on Magnetic Properties of FeRh. Nanomaterials, 2019, 9, 574.	4.1	7
155	Structural Optimization of SUTBDG Devices for Low-Power Applications. IEEE Transactions on Electron Devices, 2005, 52, 360-366.	3.0	6
156	DNA directed assembly of nanoparticle linear structure for nanophotonics. Journal of Vacuum Science & Technology B, 2009, 27, 184.	1.3	6
157	Design Requirements for a Spintronic MTJ Logic Device for Pipelined Logic Applications. IEEE Transactions on Electron Devices, 2016, 63, 1754-1761.	3.0	6
158	Cytocompatible magnetostrictive microstructures for nano- and microparticle manipulation on linear strain response piezoelectrics. Multifunctional Materials, 2018, 1, 014004.	3.7	6
159	Noncontact probing of metal-oxide-semiconductor inversion layer mobility. Applied Physics Letters, 1996, 69, 1779-1780.	3.3	5
160	Scanning acoustic force microscopy characterization of thermal expansion effects on the electromechanical properties of film bulk acoustic resonators. Applied Physics Letters, 2005, 86, 084102.	3.3	5
161	Demonstration of spin transfer torque (STT) magnetic recording. Applied Physics Letters, 2019, 114, .	3.3	5
162	Localized strain profile in surface electrode array for programmable composite multiferroic devices. Applied Physics Letters, 2021, 118, .	3.3	5

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163	Magnetic state switching in FeGa microstructures. <i>Smart Materials and Structures</i> , 2022, 31, 035005.	3.5	5
164	Short-Channel Double-Gate FETs with Atomically Precise Graphene Nanoribbons. , 2021, , .		5
165	60 nm planarized ultra-thin body solid phase epitaxy MOSFETs. , 0, , .		4
166	Positive Effects of Summer Research Program on Diverse Community College Students. , 2020, , .		4
167	Sensitive detection of laser damage to Mo/Si multilayers by picosecond ultrasonics. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 107-112.	2.2	3
168	Mechanical detection and mode shape imaging of vibrational modes of micro and nanomechanical resonators by dynamic force microscopy. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052009.	0.4	3
169	Self-assembled single-digit nanometer memory cells. <i>Applied Physics Letters</i> , 2018, 113, 062404.	3.3	3
170	Influence of dislocations and twin walls in BaTiO ₃ on the voltage-controlled switching of perpendicular magnetization. <i>Physical Review Materials</i> , 2021, 5, .	2.4	3
171	Advanced lithography for ULSI. <i>IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems</i> , 1996, 12, 11-15.	0.4	2
172	Quasi-planar FinFETs with selectively grown germanium raised source/drain. , 0, , .		2
173	Signal propagation in dipole coupled nanomagnets for logic applications. , 2012, , .		2
174	Nanomagnetic Particle-Based Information Processing. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 983-988.	2.0	2
175	Single-Cell Manipulation: Single-Domain Multiferroic Array-Addressable Terfenol-D (SMaRT) Micromagnets for Programmable Single-Cell Capture and Release (<i>Adv. Mater.</i> 20/2021). <i>Advanced Materials</i> , 2021, 33, 2170159.	21.0	2
176	Bottom-Up Synthesized Nanoporous Graphene Transistors (<i>Adv. Funct. Mater.</i> 47/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170348.	14.9	2
177	Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces. <i>ACS Nano</i> , 2022, 16, 9620-9630.	14.6	2
178	Time-resolved reflectivity measurement of thermally stabilized low temperature grown GaAs doped with beryllium. , 0, , .		1
179	Thermal Stabilization of Non-Stoichiometric GaAs through Beryllium Doping. <i>Materials Research Society Symposia Proceedings</i> , 1998, 510, 55.	0.1	1
180	Error immunity techniques for nanomagnetic logic. , 2012, , .		1

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181	Anomalous properties of sub-10-nm magnetic tunneling junctions. , 2015, , .		1
182	Electric-field controlled magnetic reorientation in exchange coupled CoFeB/Ni bilayer microstructures. Journal of Physics: Conference Series, 2019, 1407, 012024.	0.4	1
183	ULTRAFAST HOT ELECTRON RELAXATION IN METALS. Advanced Series in Physical Chemistry, 1995, , 327-346.	1.5	1
184	Experimental and theoretical studies on Mo/Si multilayers for extreme ultraviolet lithography using picosecond ultrasonics. , 2001, , .		0
185	Signal Enhancement of Time-resolved Magneto-optic Measurements on Individual Nanomagnets. , 2006, , .		0
186	Prospects for emerging nanoelectronics in mainstream information processing systems. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	0
187	Prospects for Emerging Nanoelectronics in Mainstream Information Processing Systems. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	0
188	(Invited) Single-Digit Nanofabrication Routes for Tailoring and Assembling Graphene into Functional Nanostructures and Devices. ECS Transactions, 2011, 35, 55-65.	0.5	0
189	Temperature dependence of heat dissipation during Landauer erasure of nanomagnets. , 2012, , .		0
190	Ultrafast magnetic memory bits using all-optical magnetic switching. , 2017, , .		0
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