

# Brajesh K Kaushik

## List of Publications by Year in descending order

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360  
papers

5,072  
citations

94433

37  
h-index

144013

57  
g-index

366  
all docs

366  
docs citations

366  
times ranked

2801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-Ring Resonator-Based Sensors for Detection of Different Chemicals. Journal of Optical Communications, 2024, 45, 19-25.	4.7	1
2	All-Optical Switching Device Using Plasmonic Mach-Zehnder Interferometer Structure. Journal of Optical Communications, 2022, 43, 191-197.	4.7	3
3	Knowledge-Based Neural Networks for Fast Design Space Exploration of Hybrid Copper-Graphene On-Chip Interconnect Networks. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 182-195.	2.2	21
4	Dilute magnetic semiconductor electrode based all semiconductor magnetic tunnel junction for high-temperature applications. Physica B: Condensed Matter, 2022, 627, 413525.	2.7	5
5	Recent advancements in optical biosensors for cancer detection. Biosensors and Bioelectronics, 2022, 197, 113805.	10.1	173
6	A Plus Shaped Cavity in Optical Fiber Based Refractive Index Sensor. IEEE Transactions on Nanobioscience, 2022, 21, 199-205.	3.3	3
7	Multi-Sensor Surveillance System Based on Integrated Video Analytics. IEEE Sensors Journal, 2022, 22, 10207-10222.	4.7	8
8	Transient Analysis of Hybrid Cu-CNT On-Chip Interconnects Using MRA Technique. IEEE Open Journal of Nanotechnology, 2022, 3, 24-35.	2.0	8
9	Localized Plasmon-Based Multicore Fiber Biosensor for Acetylcholine Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	41
10	Energy-Efficient Advanced Data Encryption System Using Spin-Based Computing-in-Memory Architecture. IEEE Transactions on Electron Devices, 2022, 69, 1736-1742.	3.0	7
11	MXenes-Based Fiber-Optic SPR Sensor for Colorectal Cancer Diagnosis. IEEE Sensors Journal, 2022, 22, 6661-6668.	4.7	34
12	Foreword Special Issue on Spintronics-Devices and Circuits. IEEE Transactions on Electron Devices, 2022, 69, 1622-1628.	3.0	0
13	Area Efficient Computing-in-Memory Architecture Using STT/SOT Hybrid Three Level Cell. IEEE Open Journal of Nanotechnology, 2022, 3, 45-51.	2.0	4
14	Differential spin Hall MRAM based low power logic circuits and multipliers. Semiconductor Science and Technology, 2022, 37, 075007.	2.0	2
15	Novel Radiation Hardened Magnetic Full Adder Using Spin-Orbit Torque for Multinode Upset. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	4
16	Quantum Computing: Fundamentals, Implementations and Applications. IEEE Open Journal of Nanotechnology, 2022, 3, 61-77.	2.0	22
17	Antiferromagnetic skyrmion based shape-configured leaky-integrate-fire neuron device. Journal Physics D: Applied Physics, 2022, 55, 345007.	2.8	8
18	Novel Radiation Hardened SOT-MRAM Read Circuit for Multi-Node Upset Tolerance. IEEE Open Journal of Nanotechnology, 2022, 3, 78-84.	2.0	5

#	ARTICLE	IF	CITATIONS
19	DFT Analysis of Hydrogenated Zigzag Aluminum Nitride Nanoribbons for Spintronic Devices. IEEE Transactions on Electron Devices, 2022, 69, 4494-4500.	3.0	10
20	Antimonene, CNT and MoS <sub>2</sub> Based SPR-Fiber-Optic Probe for Tuberculosis Detection. IEEE Sensors Journal, 2022, 22, 14903-14910.	4.7	9
21	High-Speed Interconnects: History, Evolution, and the Road Ahead. IEEE Microwave Magazine, 2022, 23, 66-82.	0.8	8
22	(INVITED) Advances in photonic crystal fiber: sensing and supercontinuum generation applications. Optical Fiber Technology, 2022, 72, 102982.	2.7	27
23	Tapered Optical Fiber-Based LSPR Biosensor for Ascorbic Acid Detection. Photonic Sensors, 2021, 11, 418-434.	5.0	29
24	Efficient Method and Architecture for Real-Time Video Defogging. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6536-6546.	8.0	20
25	Modeling and Fabrication Aspects of Cu- and Carbon Nanotube-Based Through-Silicon Vias. IETE Journal of Research, 2021, 67, 377-393.	2.6	5
26	Memory Efficient Architecture for Lifting-Based Discrete Wavelet Packet Transform. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1373-1377.	3.0	2
27	Design of grating based narrow band reflector on SOI waveguide. Optik, 2021, 227, 165995.	2.9	9
28	Computing-in-memory using voltage-controlled spin-orbit torque based MRAM array. Microelectronics Journal, 2021, 109, 104943.	2.0	13
29	Prospects for Electro-optic Modulator Based on 2D Transition Metal Dichalcogenides (TMD). Springer Proceedings in Physics, 2021, , 661-664.	0.2	0
30	2D Materials-Based Fiber Optic SPR Biosensor for Cancer Detection at 1550 nm. IEEE Sensors Journal, 2021, 21, 23957-23964.	4.7	55
31	Image Processing Technique for Field of View Measurement of Electro-Optical Imaging System. Springer Proceedings in Physics, 2021, , 369-372.	0.2	0
32	Energy-Efficient All-Spin BNN Using Voltage-Controlled Spin-Orbit Torque Device for Digit Recognition. IEEE Transactions on Electron Devices, 2021, 68, 385-392.	3.0	18
33	First-Principle Analysis of Transition Metal Edge-Passivated Armchair Graphene Nanoribbons for Nanoscale Interconnects. IEEE Nanotechnology Magazine, 2021, 20, 92-98.	2.0	16
34	Development of High Resolution 3rd Generation Infrared Imaging System Based on Advanced Type II Super Lattice Detector. Springer Proceedings in Physics, 2021, , 323-327.	0.2	0
35	Edge and Dielectric Surface Roughness-Aware EM-RA Model for MLG NR Interconnects. IEEE Nanotechnology Magazine, 2021, 20, 567-575.	2.0	1
36	SOT and STT Based Four-Bit Parallel MRAM Cell for High-Density Applications. IEEE Nanotechnology Magazine, 2021, 20, 653-661.	2.0	6

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37	Hybrid Approach for Image Enhancement of Long Range Electro-optical Surveillance Systems. Springer Proceedings in Physics, 2021, , 345-348.	0.2	0
38	Efficient Hardware Implementation of DNN-Based Speech Enhancement Algorithm With Precise Sigmoid Activation Function. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3461-3465.	3.0	14
39	Broadband THz Absorber for Large Inclination Angle TE and TM Waves. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	6
40	Edge-Roughness Aware EM-RA Model for Signal Integrity Analysis in MLGMR Interconnects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 273-283.	2.5	3
41	Image Processing Framework for Performance Enhancement of Low-Light Image Sensors. IEEE Sensors Journal, 2021, 21, 8530-8542.	4.7	9
42	Antiferromagnetic skyrmion repulsion based artificial neuron device. Nanotechnology, 2021, 32, 215204.	2.6	16
43	Memoryless nonlinearity in IT JL FinFET with spacer technology: Investigation towards reliability. Microelectronics Reliability, 2021, 119, 114072.	1.7	5
44	Transient analysis of graphene-based on-chip interconnects using closed-form MRA model. Semiconductor Science and Technology, 2021, 36, 065014.	2.0	1
45	A Multi-Fidelity Polynomial Chaos Approach for Uncertainty Quantification of MWCNT Interconnect Networks in the Presence of Imperfect Contacts. , 2021, , .		2
46	Efficient method for real-time range enhancement of electro-optical imaging system. Journal of Electronic Imaging, 2021, 30, .	0.9	0
47	MoS <sub>2</sub> Functionalized Multicore Fiber Probes for Selective Detection of <i>Shigella</i> Bacteria Based on Localized Plasmon. Journal of Lightwave Technology, 2021, 39, 4069-4081.	4.6	144
48	T-Count Optimized Wallace Tree Integer Multiplier for Quantum Computing. International Journal of Theoretical Physics, 2021, 60, 2823-2835.	1.2	6
49	Water Pollutants p-Cresol Detection Based on Au-ZnO Nanoparticles Modified Tapered Optical Fiber. IEEE Transactions on Nanobioscience, 2021, 20, 377-384.	3.3	109
50	Novel Architecture for Lifting Discrete Wavelet Packet Transform With Arbitrary Tree Structure. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 1490-1494.	3.1	2
51	Exponential Matrixâ€“Rational Approximation (EM-RA) Model for SWCNT Bundle and Hybrid Cu-CNT Interconnects. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1212-1222.	2.2	1
52	High-Performance Computing-in-Memory Architecture Using STT-/SOT-Based Series Triple-Level Cell MRAM. IEEE Transactions on Magnetics, 2021, 57, 1-12.	2.1	11
53	SOT and STT-Based 4-Bit MRAM Cell for High-Density Memory Applications. IEEE Transactions on Electron Devices, 2021, 68, 4384-4390.	3.0	14
54	A novel plus shaped cavity based optical fiber sensor for the detection of Escherichia-Coli. Results in Optics, 2021, 5, 100156.	2.0	3

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55	High-Performance Computing-in-Memory Architecture Based on Single-Level and Multilevel Cell Differential Spin Hall MRAM. IEEE Transactions on Magnetics, 2021, 57, 1-15.	2.1	5
56	Enhancing the Surveillance Detection Range of Image Sensors Using HDR Techniques. IEEE Sensors Journal, 2021, 21, 19516-19528.	4.7	8
57	Advances in Neuromorphic Spin-Based Spiking Neural Networks: A review. IEEE Nanotechnology Magazine, 2021, 15, 33-44.	1.3	1
58	Vertical traversal approach towards TSVs optimisation over multilayer network on chip (NoC). Microelectronics Journal, 2021, 116, 105231.	2.0	8
59	A survey of SRAM-based in-memory computing techniques and applications. Journal of Systems Architecture, 2021, 119, 102276.	4.3	30
60	Hardware Security Exploiting Post-CMOS Devices: Fundamental Device Characteristics, State-of-the-Art Countermeasures, Challenges and Roadmap. IEEE Circuits and Systems Magazine, 2021, 21, 4-30.	2.3	9
61	A Hybrid Dehazing Method and its Hardware Implementation for Image Sensors. IEEE Sensors Journal, 2021, 21, 25931-25940.	4.7	4
62	Magnetic Skyrmions: Recent advances and applications. IEEE Nanotechnology Magazine, 2021, 15, 28-40.	1.3	2
63	High-performance voltage controlled multilevel MRAM cell. Semiconductor Science and Technology, 2021, 36, 125013.	2.0	2
64	T-count optimized quantum circuit for floating point addition and multiplication. Quantum Information Processing, 2021, 20, 1.	2.2	2
65	Guest Editorial: Nanopackaging Part I. IEEE Open Journal of Nanotechnology, 2021, 2, 201-202.	2.0	1
66	Gold Nanoparticles and Uricase Functionalized Tapered Fiber Sensor for Uric Acid Detection. IEEE Sensors Journal, 2020, 20, 219-226.	4.7	56
67	Development of Dopamine Sensor Using Silver Nanoparticles and PEG-Functionalized Tapered Optical Fiber Structure. IEEE Transactions on Biomedical Engineering, 2020, 67, 1542-1547.	4.2	57
68	Objective evaluation method for advance thermal imagers based on minimum resolvable temperature difference. Journal of Optics (India), 2020, 49, 94-101.	1.7	4
69	Modeling of Voltage-Controlled Spin-Orbit Torque MRAM for Multilevel Switching Application. IEEE Transactions on Electron Devices, 2020, 67, 90-98.	3.0	25
70	Development of Uric Acid Biosensor Using Gold Nanoparticles and Graphene Oxide Functionalized Micro-Ball Fiber Sensor Probe. IEEE Transactions on Nanobioscience, 2020, 19, 173-182.	3.3	58
71	Energy-Efficient Differential Spin Hall MRAM-Based 4-2 Magnetic Compressor. IEEE Transactions on Magnetics, 2020, 56, 1-11.	2.1	13
72	Etched multicore fiber sensor using copper oxide and gold nanoparticles decorated graphene oxide structure for cancer cells detection. Biosensors and Bioelectronics, 2020, 168, 112557.	10.1	108

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73	Detection of Collagen-IV Using Highly Reflective Metal Nanoparticlesâ€”Immobilized Photosensitive Optical Fiber-Based MZI Structure. IEEE Transactions on Nanobioscience, 2020, 19, 477-484.	3.3	45
74	Transition metal dichalcogenides integrated waveguide modulator and attenuator in silicon nitride platform. Nanotechnology, 2020, 31, 435202.	2.6	8
75	Statistical Analysis of Temperature Variability on the Write Efficiency of Spin-Orbit Torque MRAM using Polynomial Chaos Metamodels. , 2020, , .		1
76	Estimating Per-Unit-Length Resistance Parameter in Emerging Copper-Graphene Hybrid Interconnects via Prior Knowledge based Accelerated Neural Networks. , 2020, , .		2
77	Review of Recent Progress on Silicon Nitride-Based Photonic Integrated Circuits. IEEE Access, 2020, 8, 195436-195446.	4.2	39
78	Evaluation of circuit performance of Tâ€shaped tunnel FET. IET Circuits, Devices and Systems, 2020, 14, 667-673.	1.4	2
79	First Principle Analysis of Os-passivated Armchair Graphene Nanoribbons for Nanoscale Interconnects. , 2020, , .		1
80	Role of Grain Size on the Effective Resistivity of Cu-Graphene Hybrid Interconnects. , 2020, , .		4
81	From MTJ Device to Hybrid CMOS/MTJ Circuits: A Review. IEEE Access, 2020, 8, 194105-194146.	4.2	40
82	Temperature-Aware Compact Modeling for Resistivity in Ultra-Scaled Cu-Graphene Hybrid Interconnects. , 2020, , .		1
83	Monolayer MoSeâ„-Based Tunneling Field Effect Transistor for Ultrasensitive Strain Sensing. IEEE Transactions on Electron Devices, 2020, 67, 2140-2146.	3.0	24
84	Prospective Design of Dual Band Graphene-Based Patch Antenna for Mid-THz Band. , 2020, , .		1
85	High-Density, Low-Power Voltage-Control Spin Orbit Torque Memory with Synchronous Two-Step Write and Symmetric Read Techniques. , 2020, , .		4
86	Computing-in-Memory Architecture Using Energy-Efficient Multilevel Voltage-Controlled Spin-Orbit Torque Device. IEEE Transactions on Electron Devices, 2020, 67, 1972-1979.	3.0	28
87	Development of Collagen-IV Sensor Using Optical Fiber-Based Mach-Zehnder Interferometer Structure. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.9	30
88	A Temperature and Dielectric Roughness-Aware Matrix Rational Approximation Model for the Reliability Assessment of Copperâ€ Graphene Hybrid On-Chip Interconnects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1454-1465.	2.5	7
89	Highly Sensitive, Selective and Portable Sensor Probe using Germanium-Doped Photosensitive Optical Fiber for Ascorbic Acid Detection. IEEE Sensors Journal, 2020, , 1-1.	4.7	33
90	Localized Surface Plasmon Resonance Based Hetero-Core Optical Fiber Sensor Structure for the Detection of L-Cysteine. IEEE Nanotechnology Magazine, 2020, 19, 201-208.	2.0	53

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91	Fast and robust video stabilisation with preserved intentional camera motion and smear removal for infrared video. IET Image Processing, 2020, 14, 376-383.	2.5	2
92	Temperature-dependent crosstalk between adjacent MLGMR interconnects of different dimensions and its impact on gate oxide reliability. Journal of Computational Electronics, 2020, 19, 191-205.	2.5	6
93	Photosensor Based on Split Gate TMD TFET Using Photogating Effect for Visible Light Detection. IEEE Sensors Journal, 2020, 20, 6346-6353.	4.7	21
94	Novel Bit-Reordering Circuit for Continuous-Flow Parallel FFT Architectures. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3392-3396.	3.0	1
95	Field enhancement assisted graphene-based microring modulator for high modulation depth. IET Optoelectronics, 2020, 14, 391-398.	3.3	1
96	Implementation of an efficient magnetic tunnel junction-based stochastic neural network with application to iris data classification. Nanotechnology, 2020, 31, 504001.	2.6	11
97	High frequency current induced domain wall motion based nano oscillator. , 2020, , .		2
98	Review“Silicene: From Material to Device Applications. ECS Journal of Solid State Science and Technology, 2020, 9, 115031.	1.8	65
99	Performance Improvement of Electro Optic Search and Track System for Maritime Surveillance. Defence Science Journal, 2020, 70, 66-71.	0.8	1
100	Fiscal classification using convolutional neural network. , 2020, , .		0
101	Comparative analysis of spin based memories for neuromorphic computing. , 2020, , .		1
102	Skyrmion nucleation in antiferromagnetic films. , 2020, , .		1
103	Performance analysis of vertical photo-detector for efficient on chip optical interconnect. , 2020, , .		0
104	Design of Mach-Zehnder modulator based optical reversible gate for high speed data transmission. , 2020, , .		0
105	Design of an efficient VCMA controlled spintronic random number generator. , 2020, , .		0
106	Comparative Analysis of Spintronic Memories for Low Power on-chip Caches. Spin, 2020, 10, .	1.3	7
107	Combinational and Sequential Design in CMOS. , 2020, , 119-146.		0
108	Efficient method for evaluation and hardware-in-loop testing of electro“optical tracking system. Optical Engineering, 2020, 59, .	1.0	0

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109	VLSI Scaling and Fabrication. , 2020, , 37-82.		0
110	Semiconductor Physics and Devices. , 2020, , 1-36.		0
111	VLSI Interconnect and Implementation. , 2020, , 195-236.		0
112	Analog Circuit Design. , 2020, , 147-168.		0
113	Digital Design Through Verilog HDL. , 2020, , 169-194.		0
114	VLSI Design and Testability. , 2020, , 237-250.		0
115	LSPR-Based Cholesterol Biosensor Using Hollow Core Fiber Structure. IEEE Sensors Journal, 2019, 19, 7399-7406.	4.7	71
116	Multispectral Transmission Map Fusion Method and Architecture for Image Dehazing. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 2693-2697.	3.1	13
117	Comparative Analysis of Logic Gates Based on Spin Transfer Torque (STT) and Differential Spin Hall Effect (DSHE) Switching Mechanisms. Communications in Computer and Information Science, 2019, , 428-441.	0.5	2
118	A Transition Metal Dichalcogenide Tunnel FET-Based Waveguide-Integrated Photodetector Using Ge for Near-Infrared Detection. IEEE Sensors Journal, 2019, 19, 9187-9193.	4.7	9
119	Differential Spin Hall Effect-Based Nonvolatile Static Random Access Memory for Energy-Efficient and Fast Data Restoration Application. IEEE Transactions on Magnetics, 2019, 55, 1-11.	2.1	13
120	LSPR based uric acid sensor using graphene oxide and gold nanoparticles functionalized tapered fiber. Optical Fiber Technology, 2019, 53, 102043.	2.7	65
121	Quantum Computing Circuits Based on Spin-Torque Qubit Architecture: Toward the Physical Realization of Quantum Computers. IEEE Nanotechnology Magazine, 2019, 13, 15-24.	1.3	1
122	Spin-Torque-Based Quantum Fourier Transform. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	3
123	A Charge Plasma-Based Monolayer Transition Metal Dichalcogenide Tunnel FET. IEEE Transactions on Electron Devices, 2019, 66, 2837-2843.	3.0	19
124	Implementation of reversible Peres gate using electro-optic effect inside lithium-niobate based Mach-Zehnder interferometers. Optics and Laser Technology, 2019, 117, 28-37.	4.6	12
125	Low Restoration-Energy Differential Spin Hall Effect MRAM for High-Speed Nonvolatile SRAM Application. , 2019, , .		2
126	Crosstalk Analysis in MWCNTs using a Closed-Form Matrix Rational Approximation Technique. , 2019, , .		5



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127	Performance analysis of differential spin hall effect (DSHE)-MRAM-based logic gates. Circuit World, 2019, 45, 300-310.	0.9	3
128	Temperature-Aware Closed-Form Matrix Rational Approximation Model for Crosstalk Analysis of Multi-Walled Carbon Nanotube Interconnects. , 2019, , .		1
129	Analytical modelling and device design optimisation of epitaxial layerâ€based IIIâ€V tunnel FET. IET Circuits, Devices and Systems, 2019, 13, 763-770.	1.4	7
130	Design of Optical Reversible Hybrid Adder-Subtractor Device Using Mach-Zehnder Interferometers for WDM Applications. Journal of Optical Communications, 2019, .	4.7	4
131	Performance enhancement of graphene plasmonic nanoantennas for THz communication. IET Microwaves, Antennas and Propagation, 2019, 13, 71-75.	1.4	29
132	Area and Energy Efficient Series Multilevel Cell STT-MRAMs for Optimized Readâ€Write Operations. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	16
133	Modeling of a Magnetic Tunnel Junction for a Multilevel STT-MRAM Cell. IEEE Nanotechnology Magazine, 2019, 18, 1005-1014.	2.0	13
134	Transient Analysis of Crosstalk Induced Effects in Mixed CNT Bundle Interconnects Using FDTD Technique. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1621-1629.	2.2	27
135	Tunnel FET. , 2019, , 3-25.		4
136	Transition metal dichalcogenide material based tunneling field-effect transistor for label free bio-sensing application. , 2019, , .		1
137	LSPR-based cholesterol biosensor using a tapered optical fiber structure. Biomedical Optics Express, 2019, 10, 2150.	2.9	72
138	Real Time Non uniformity Correction Algorithm and Implementation in Reconfigurable Architecture for Infra red Imaging Systems. Defence Science Journal, 2019, 69, 179-184.	0.8	3
139	Blur and noisy image restoration for near real time applications. , 2019, , .		1
140	Implementation of Mach Zehnder modulator based all optical gates. , 2019, , .		0
141	Spin based neuromorphic computing. , 2019, , .		1
142	Development and validation of a quantitative model for the subjective and objective minimum resolvable temperature difference of thermal imaging systems. Optical Engineering, 2019, 58, 1.	1.0	2
143	Inverted â€™ Junctionless FinFET (ITJL FinFET): Performance Estimation through Device Geometry Variation. ECS Journal of Solid State Science and Technology, 2018, 7, Q52-Q59.	1.8	7
144	Parallel Multilevel Cell STT-MRAMs for Optimized Area Energy and Readâ€Write Operations. IEEE Transactions on Magnetics, 2018, 54, 1-9.	2.1	10

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145	Temperatureâ€dependent modeling and performance analysis of coupled MLCNR interconnects. International Journal of Circuit Theory and Applications, 2018, 46, 299-312.	2.0	25
146	Performance analysis of VCSEL using finite difference time domain method. Optik, 2018, 156, 505-513.	2.9	1
147	Selected Articles from VDAT 2017 Conference. Journal of Low Power Electronics, 2018, 14, 255-256.	0.6	0
148	Area and Energy Efficient Magnetic Full Adder based on Differential Spin Hall MRAM. , 2018, , .		5
149	Impact of MWCNT Radii on the Performance of Nano Regime Interconnects. , 2018, , .		1
150	Implementation and Analysis of Spin-Torque-Based Reversible D-Latch. , 2018, , .		1
151	Optimal Boolean Logic Quantum Circuit Decomposition for Spin-Torque-Based $\text{N}^1$ -Qubit Architecture. IEEE Transactions on Magnetism, 2018, 54, 1-9.	2.1	4
152	Compact Modeling of Differential Spin-Orbit Torque based MRAM. , 2018, , .		3
153	Transmission Coefficient Matrix Modeling of Spin-Torque-Based $\text{N}^1$ -Qubit Architecture. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 1461-1470.	3.1	6
154	Analysis of the effect of graphene integration on the coupling condition in microresonator. , 2018, , .		1
155	Integrated Navigation, Guidance and Control System and Validation. Current Science, 2018, 114, 109.	0.8	1
156	Range Performance Modelling of Thermal Imaging System based on Single Parameter Characterised by Ambient Temperature and Relative Humidity. Defence Science Journal, 2018, 68, 480-486.	0.8	1
157	Performance analysis of DSHE based memories. , 2018, , .		7
158	Magnetic Domain Wall Race Track Memory. SpringerBriefs in Applied Sciences and Technology, 2017, , 71-92.	0.4	1
159	Spin Orbit Torque MRAM. SpringerBriefs in Applied Sciences and Technology, 2017, , 35-50.	0.4	0
160	Temperature-Dependent Modeling and Crosstalk Analysis in Mixed Carbon Nanotube Bundle Interconnects. Journal of Electronic Materials, 2017, 46, 5324-5337.	2.2	28
161	Multilevel Cell MRAMs. SpringerBriefs in Applied Sciences and Technology, 2017, , 51-70.	0.4	0
162	Emerging Memory Technologies. SpringerBriefs in Applied Sciences and Technology, 2017, , 1-12.	0.4	0

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163	Next Generation 3-D Spin Transfer Torque Magneto-resistive Random Access Memories. SpringerBriefs in Applied Sciences and Technology, 2017, , 13-34.	0.4	2
164	Variation-aware widely tunable nanoscale design of CMOS active inductor-based RF bandpass filter. International Journal of Circuit Theory and Applications, 2017, 45, 2181-2200.	2.0	12
165	Next Generation Spin Torque Memories. SpringerBriefs in Applied Sciences and Technology, 2017, , .	0.4	12
166	T-Shaped III-V Heterojunction Tunneling Field-Effect Transistor. IEEE Transactions on Electron Devices, 2017, 64, 3120-3125.	3.0	83
167	Design of oxide-confined and temperature stable long wavelength Vertical Cavity Surface Emitting Laser for optical interconnects. Optik, 2017, 131, 506-514.	2.9	4
168	Air Turbulence Mitigation Techniques for Long-Range Terrestrial Surveillance. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2017, 34, 416-430.	3.2	3
169	Effectiveness of High Permittivity Spacer for Underlap Regions of Wavy-Junctionless FinFET at 22Ånm Node and Scaling Short Channel Effects. Communications in Computer and Information Science, 2017, , 545-556.	0.5	2
170	Crosstalk-centric designing using graphene based multi-line bus architecture. , 2017, , .		0
171	Reconfigurable Architecture-Based Implementation of Non-uniformity Correction for Long Wave IR Sensors. Advances in Intelligent Systems and Computing, 2017, , 23-34.	0.6	4
172	Modeling and simulation analysis of graphene integrated silicon waveguides. , 2017, , .		1
173	Time-domain finite-difference based analysis of induced crosstalk in multiwall carbon nanotube interconnects. , 2017, , .		1
174	FPGA implementation of image dehazing algorithm for real time applications. , 2017, , .		3
175	Hybrid plasmonic waveguide with centimeter-scale propagation length for nanoscale optical confinement. Applied Optics, 2016, 55, 10341.	2.1	8
176	Crosstalk Modeling with Width Dependent MFP in MLG NR Interconnects Using FDTD Technique. SpringerBriefs in Applied Sciences and Technology, 2016, , 81-96.	0.4	2
177	Analysis and Comparison of Regularization Techniques for Image Deblurring. Advances in Intelligent Systems and Computing, 2016, , 699-709.	0.6	0
178	Interconnect Modeling, CNT and GNR Structures, Properties, and Characteristics. SpringerBriefs in Applied Sciences and Technology, 2016, , 11-41.	0.4	0
179	FDTD Model for Crosstalk Analysis of Multiwall Carbon Nanotube (MWCNT) Interconnects. SpringerBriefs in Applied Sciences and Technology, 2016, , 61-79.	0.4	0
180	Crosstalk in Modern On-Chip Interconnects. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	2

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181	An Efficient US-FDTD Model for Crosstalk Analysis of On-Chip Interconnects. SpringerBriefs in Applied Sciences and Technology, 2016, , 97-116.	0.4	0
182	Introduction to On-Chip Interconnects and Modeling. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-9.	0.4	0
183	FDTD Model for Crosstalk Analysis of CMOS Gate-Driven Coupled Copper Interconnects. SpringerBriefs in Applied Sciences and Technology, 2016, , 43-59.	0.4	1
184	Novel compact model for multi-level spin torque magnetic tunnel junctions. Proceedings of SPIE, 2016, , .	0.8	2
185	Comparative analysis of energy-efficient long wavebands vertical cavity surface emitting lasers. , 2016, , .		0
186	Spintronics-Based Devices to Circuits: Perspectives and challenges. IEEE Nanotechnology Magazine, 2016, 10, 13-28.	1.3	17
187	Modeling and optimization of single-mode vertical cavity surface emitting lasers. Journal of Nanophotonics, 2016, 10, 046008.	1.0	1
188	A detailed capacitive analysis of symmetric and asymmetric dual-k FinFETs for improved circuit delay metrics. , 2016, , .		1
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