

Efstratios Skafidas

List of Publications by Year in descending order

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341
papers

4,239
citations

147726

31
h-index

197736

49
g-index

346
all docs

346
docs citations

346
times ranked

5139
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability results for switched controller systems. Automatica, 1999, 35, 553-564.	3.0	229
2	Microglial activation and progressive brain changes in schizophrenia. British Journal of Pharmacology, 2016, 173, 666-680.	2.7	185
3	Predicting the diagnosis of autism spectrum disorder using gene pathway analysis. Molecular Psychiatry, 2014, 19, 504-510.	4.1	136
4	High-Speed Optical Wireless Communication System for Indoor Applications. IEEE Photonics Technology Letters, 2011, 23, 519-521.	1.3	93
5	4,imes,12.5 Gb/s WDM Optical Wireless Communication System for Indoor Applications. Journal of Lightwave Technology, 2011, 29, 1988-1996.	2.7	84
6	Ultra-broadband and low-loss 3dB optical power splitter based on adiabatic tapered silicon waveguides. Optics Letters, 2016, 41, 2053.	1.7	83
7	Enhanced tree routing for wireless sensor networks. Ad Hoc Networks, 2009, 7, 638-650.	3.4	73
8	A Complete 256-Electrode Retinal Prosthesis Chip. IEEE Journal of Solid-State Circuits, 2014, 49, 751-765.	3.5	73
9	High Performance Graphene Nano-ribbon Thermoelectric Devices by Incorporation and Dimensional Tuning of Nanopores. Scientific Reports, 2015, 5, 11297.	1.6	71
10	Robust output feedback stabilizability via controller switching. Automatica, 1999, 35, 69-74.	3.0	68
11	High-speed duplex optical wireless communication system for indoor personal area networks. Optics Express, 2010, 18, 25199.	1.7	63
12	Filling schemes at submicron scale: Development of submicron sized plasmonic colour filters. Scientific Reports, 2014, 4, 6435.	1.6	55
13	Full-Duplex Gigabit Indoor Optical Wireless Communication System With CAP Modulation. IEEE Photonics Technology Letters, 2016, 28, 790-793.	1.3	55
14	Statistical moments-based OSNR monitoring for coherent optical systems. Optics Express, 2012, 20, 17711.	1.7	54
15	Hybrid dynamical systems: robust control synthesis problems. Systems and Control Letters, 1996, 29, 81-90.	1.3	51
16	A 60-GHz Double-Balanced Gilbert Cell Down-Conversion Mixer on 130-nm CMOS. Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE, 2007, , .	0.0	47
17	A Silk Fibroin Bio-Transient Solution Processable Memristor. Scientific Reports, 2017, 7, 14731.	1.6	47
18	Recent advances in printable thermoelectric devices: materials, printing techniques, and applications. RSC Advances, 2020, 10, 8421-8434.	1.7	46

#	ARTICLE	IF	CITATIONS
19	An associative capacitive network based on nanoscale complementary resistive switches for memory-intensive computing. <i>Nanoscale</i> , 2013, 5, 5119.	2.8	44
20	Decreased expression of mGluR5 within the dorsolateral prefrontal cortex in autism and increased microglial number in mGluR5 knockout mice: Pathophysiological and neurobehavioral implications. <i>Brain, Behavior, and Immunity</i> , 2015, 49, 197-205.	2.0	43
21	A CMOS 77-GHz Receiver Front-End for Automotive Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013, 61, 3783-3793.	2.9	42
22	All-Graphene Planar Self-Switching MISFEDs, Metal-Insulator-Semiconductor Field-Effect Diodes. <i>Scientific Reports</i> , 2014, 4, 3983.	1.6	42
23	Wireless technologies for closed-loop retinal prostheses. <i>Journal of Neural Engineering</i> , 2009, 6, 065004.	1.8	38
24	Phenotypic and Functional Characterization of Peripheral Sensory Neurons derived from Human Embryonic Stem Cells. <i>Scientific Reports</i> , 2018, 8, 603.	1.6	38
25	Negative differential resistance effect in planar graphene nanoribbon break junctions. <i>Nanoscale</i> , 2015, 7, 289-293.	2.8	37
26	A single sensor based multispectral imaging camera using a narrow spectral band color mosaic integrated on the monochrome CMOS image sensor. <i>APL Photonics</i> , 2020, 5, .	3.0	37
27	A 60-GHz CMOS Transmit/Receive Switch. <i>Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE</i> , 2007, , .	0.0	35
28	Experimental Demonstration of a Full-Duplex Indoor Optical Wireless Communication System. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 188-190.	1.3	35
29	High-speed indoor optical wireless communication system employing a silicon integrated photonic circuit. <i>Optics Letters</i> , 2018, 43, 3132.	1.7	35
30	Direct Electrohydrodynamic Patterning of High-Performance All Metal Oxide Thin-Film Electronics. <i>ACS Nano</i> , 2019, 13, 13957-13964.	7.3	34
31	60-GHz double-balanced up-conversion mixer on 130-nm CMOS technology. <i>Electronics Letters</i> , 2008, 44, 633.	0.5	31
32	Convergent evidence for mGluR5 in synaptic and neuroinflammatory pathways implicated in ASD. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 52, 172-177.	2.9	29
33	Data-Aided OSNR Estimation for QPSK and 16-QAM Coherent Optical System. <i>IEEE Photonics Journal</i> , 2013, 5, 6601609-6601609.	1.0	28
34	Lab on a chip sensor for rapid detection and antibiotic resistance determination of <i>Staphylococcus aureus</i> . <i>Analyst</i> , 2016, 141, 1922-1929.	1.7	28
35	Self-Organized Nanostructure Modified Microelectrode for Sensitive Electrochemical Glutamate Detection in Stem Cells-Derived Brain Organoids. <i>Biosensors</i> , 2018, 8, 14.	2.3	28
36	Minimum phase properties for input nonaffine nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 868-872.	3.6	27

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37	High-speed indoor optical wireless communication system with single channel imaging receiver. Optics Express, 2012, 20, 8442.	1.7	27
38	A 60-GHz fully-integrated Doherty power amplifier based on 0.13- μm CMOS process. , 2008, , .		26
39	Indoor infrared optical wireless localization system with background light power estimation capability. Optics Express, 2017, 25, 22923.	1.7	26
40	Trajectory-approximation-based adaptive control for nonlinear systems under matching conditions. Automatica, 1998, 34, 287-299.	3.0	25
41	Investigation of Frequency-Dependent Effects in Inductive Coils for Implantable Electronics. IEEE Transactions on Magnetics, 2013, 49, 1353-1360.	1.2	25
42	Asymmetrically-gated graphene self-switching diodes as negative differential resistance devices. Nanoscale, 2014, 6, 7628-7634.	2.8	25
43	Plasmonic Colour Filters Based on Coaxial Holes in Aluminium. Materials, 2017, 10, 383.	1.3	25
44	Attentional set-shifting and social abilities in children with schizotypal and comorbid autism spectrum disorders. Australian and New Zealand Journal of Psychiatry, 2018, 52, 68-77.	1.3	25
45	Experimental Demonstration of Indoor Infrared Optical Wireless Communications With a Silicon Photonic Integrated Circuit. Journal of Lightwave Technology, 2019, 37, 619-626.	2.7	25
46	The problem of optimal robust sensor scheduling. Systems and Control Letters, 2001, 43, 149-157.	1.3	24
47	Angle of Arrival Extended S-V Model for the 60 Ghz Wireless Desktop Channel. , 2006, , .		24
48	Graphene nanopores: electronic transport properties and design methodology. Physical Chemistry Chemical Physics, 2014, 16, 1451-1459.	1.3	24
49	Tunneling-Limited Thermoelectric Transport in Carbon Nanotube Networks Embedded in Poly(dimethylsiloxane) Elastomer. ACS Applied Energy Materials, 2019, 2, 2419-2426.	2.5	24
50	An ab-initio Computational Method to Determine Dielectric Properties of Biological Materials. Scientific Reports, 2013, 3, 1796.	1.6	23
51	A Low Power MICS Band Phase-Locked Loop for High Resolution Retinal Prosthesis. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 513-525.	2.7	23
52	Feasibility of Energy-Autonomous Wireless Microsensors for Biomedical Applications: Powering and Communication. IEEE Reviews in Biomedical Engineering, 2015, 8, 17-29.	13.1	23
53	Low-Loss and Broadband $\times 2$ Polarization Beam Splitter Based on Silicon Nitride Platform. IEEE Photonics Technology Letters, 2016, 28, 1936-1939.	1.3	23
54	A meta-analysis of in vitro exposures to weak radiofrequency radiation exposure from mobile phones (1990-2015). Environmental Research, 2020, 184, 109227.	3.7	23

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55	85-Gb/s 40-Gb/s Optical Coherent Pol-Mux Single Carrier System With Frequency Domain Equalization and Training Sequences. IEEE Photonics Technology Letters, 2012, 24, 885-887.	1.3	22
56	A cluster analysis exploration of autism spectrum disorder subgroups in children without intellectual disability. Research in Autism Spectrum Disorders, 2017, 36, 66-78.	0.8	22
57	Capacity and data rate for millimeter wavelength systems in a short range package radio transceiver. IEEE Transactions on Wireless Communications, 2010, 9, 903-906.	6.1	21
58	Data-Aided Chromatic Dispersion Estimation for Polarization Multiplexed Optical Systems. IEEE Photonics Journal, 2012, 4, 2037-2049.	1.0	21
59	Pathway-wide association study identifies five shared pathways associated with schizophrenia in three ancestral distinct populations. Translational Psychiatry, 2017, 7, e1037-e1037.	2.4	21
60	Impact of background light induced shot noise in high-speed full-duplex indoor optical wireless communication systems. Optics Express, 2011, 19, 21321.	1.7	20
61	Experimental demonstration of a novel indoor optical wireless localization system for high-speed personal area networks. Optics Letters, 2015, 40, 1246.	1.7	20
62	Environmentally friendly power generator based on moving liquid dielectric and double layer effect. Scientific Reports, 2016, 6, 26708.	1.6	20
63	Optical Wireless-Based Indoor Localization System Employing a Single-Channel Imaging Receiver. Journal of Lightwave Technology, 2016, 34, 1141-1149.	2.7	20
64	Tuneable graphene nanopores for single biomolecule detection. Nanoscale, 2016, 8, 10066-10077.	2.8	19
65	Ultrasensitive and label-free biosensor for the detection of Plasmodium falciparum histidine-rich protein II in saliva. Scientific Reports, 2019, 9, 17495.	1.6	19
66	Design of 60-GHz millimetre-wave bandpass filter on bulk CMOS. IET Microwaves, Antennas and Propagation, 2009, 3, 943.	0.7	18
67	Enhanced thermoelectric performance of graphene nanoribbon-based devices. Journal of Applied Physics, 2016, 119, .	1.1	18
68	Resonant tunneling based graphene quantum dot memristors. Nanoscale, 2016, 8, 20074-20079.	2.8	18
69	Four-Wave-Mixing-Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. IEEE Photonics Technology Letters, 2016, 28, 1739-1742.	1.3	18
70	An interdigitated electrode biosensor platform for rapid HLA-B*15:02 genotyping for prevention of drug hypersensitivity. Biosensors and Bioelectronics, 2018, 111, 174-183.	5.3	18
71	Millimeter-wave integrated radar systems and techniques. , 2018, , 317-363.		18
72	A 40 GHz Power Efficient Static CML Frequency Divider in 0.13-µm CMOS Technology for High Speed Millimeter-Wave Wireless Systems. , 2008, , .		17

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73	A prototype 64-electrode stimulator in 65 nm CMOS process towards a high density epi-retinal prosthesis. , 2011, 2011, 6729-32.		17
74	A 77 GHz CMOS low noise amplifier for automotive radar receiver. , 2012, , .		17
75	Consumer radar: Opportunities and challenges. , 2014, , .		17
76	Label-free screening of single biomolecules through resistive pulse sensing technology for precision medicine applications. Nanotechnology, 2015, 26, 182502.	1.3	17
77	Magneto-Impedance Biosensor Sensitivity: Effect and Enhancement. Sensors, 2020, 20, 5213.	2.1	17
78	High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects. IEEE Photonics Journal, 2012, 4, 1407-1419.	1.0	16
79	Experimental demonstration of high-speed free-space reconfigurable card-to-card optical interconnects. Optics Express, 2013, 21, 2850.	1.7	16
80	Detection of Protein Conformational Changes with Multilayer Graphene Nanopore Sensors. ACS Applied Materials & Interfaces, 2014, 6, 16777-16781.	4.0	16
81	All-Graphene Planar Double Barrier Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2014, 2, 118-122.	1.2	16
82	Monolayer MoS2 self-switching diodes. Journal of Applied Physics, 2016, 119, .	1.1	16
83	Fully Solution-Processed Transparent Artificial Neural Network Using Drop-On-Demand Electrohydrodynamic Printing. ACS Applied Materials & Interfaces, 2019, 11, 17521-17530.	4.0	16
84	Wireless power delivery for retinal prostheses. , 2011, 2011, 8356-60.		15
85	An ultra-low-power and low-noise voltage-controlled ring oscillator for biomedical applications. , 2013, , .		15
86	A compact silicon grating coupler based on hollow tapered spot-size converter. Scientific Reports, 2018, 8, 2540.	1.6	15
87	Low-temperature Solution-processed Transparent QLED Using Inorganic Metal Oxide Carrier Transport Layers. Advanced Functional Materials, 2022, 32, 2106387.	7.8	15
88	Characterization of the 60 GHz Wireless Desktop Channel. IEEE Transactions on Antennas and Propagation, 2007, 55, 2129-2133.	3.1	14
89	Design of integrated millimetre wave microstrip interdigital bandpass filters on CMOS technology. , 2007, , .		14
90	A 60-GHz Double-Balanced Mixer for Direct Up-Conversion Transmitter on 130-nm CMOS. Compound Semiconductor Integrated Circuit Symposium (CSICS), IEEE, 2008, , .	0.0	14

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91	A 60-GHz transceiver on CMOS. , 2008, , .		14
92	Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 283-286.	2.4	14
93	Design of hybrid resistive-capacitive DAC for SAR A/D converters. , 2012, , .		14
94	Performance Analysis of On-Chip Coplanar Waveguide for In Vivo Dielectric Analysis. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 641-647.	2.4	14
95	All-Graphene Planar Double-Quantum-Dot Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2016, 4, 30-39.	1.2	14
96	Graphene foam as a biocompatible scaffold for culturing human neurons. Royal Society Open Science, 2018, 5, 171364.	1.1	14
97	Investigating enhanced thermoelectric performance of graphene-based nano-structures. Nanoscale, 2018, 10, 4786-4792.	2.8	14
98	Issues in the Implementation of a 60GHz Transceiver on CMOS. , 2007, , .		13
99	Experimental demonstration of 3Å–310â€™â€™Gb/s reconfigurable free space optical card-to-card interconnects. Optics Letters, 2012, 37, 2553.	1.7	13
100	Digital Signal Processing for Training-Aided Coherent Optical Single-Carrier Frequency-Domain Equalization Systems. Journal of Lightwave Technology, 2014, 32, 4712-4722.	2.7	13
101	High contrast circular grating reflector on silicon-on-insulator platform. Optics Letters, 2016, 41, 520.	1.7	13
102	No preliminary evidence of differences in astrocyte density within the white matter of the dorsolateral prefrontal cortex in autism. Molecular Autism, 2017, 8, 64.	2.6	13
103	Mind the prevalence rate: overestimating the clinical utility of psychiatric diagnostic classifiers. Psychological Medicine, 2018, 48, 1225-1227.	2.7	13
104	Performance of High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects Under Air Turbulence. Journal of Lightwave Technology, 2013, 31, 1687-1693.	2.7	12
105	Design of a compact ultra wideband balanced-to-balanced power divider/combiner. , 2013, , .		12
106	Highly Effective Conductance Modulation in Planar Silicene Field Effect Devices Due to Buckling. Scientific Reports, 2015, 5, 14815.	1.6	12
107	Vertical Nanowire Electrode Arrays as Novel Electrochemical Labelâ€™Free Immunosensors. Small, 2015, 11, 2862-2868.	5.2	12
108	Development of an Ultrasensitive Impedimetric Immunosensor Platform for Detection of Plasmodium Lactate Dehydrogenase. Sensors, 2019, 19, 2446.	2.1	12

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109	Chromatic Dispersion Estimation in 40 Gb/s Coherent Polarization-Multiplexed Single Carrier System using Complementary Golay Sequences. , 2012, , .		12
110	A fully flexible stimulator using 65 nm cmos process for 1024-electrode epi-retinal prosthesis. , 2009, 2009, 1643-6.		11
111	Impact of Crosstalk on Indoor WDM Optical Wireless Communication Systems. IEEE Photonics Journal, 2012, 4, 375-386.	1.0	11
112	High-speed free-space based reconfigurable card-to-card optical interconnects with broadcast capability. Optics Express, 2013, 21, 15395.	1.7	11
113	GFAP Antibody Detection Using Interdigital Coplanar Waveguide Immunosensor. IEEE Sensors Journal, 2016, 16, 2898-2905.	2.4	11
114	A tight binding and σ study of monolayer stanene. Scientific Reports, 2017, 7, 12069.	1.6	11
115	WDR62 Regulates Early Neural and Glial Progenitor Specification of Human Pluripotent Stem Cells. Stem Cells International, 2017, 2017, 1-9.	1.2	11
116	Analysis and Design of a 50-GHz 2:1 CMOS CML Static Frequency Divider Based on LC-tank. , 2008, , .		10
117	60 GHz compact integrated cross-coupled SIR-MH bandpass filter on bulk CMOS. Electronics Letters, 2008, 44, 738.	0.5	10
118	Frequency-Domain Blind Equalization for Long-Haul Coherent Pol-Mux 16-QAM System With CD Prediction and Dual-Mode Adaptive Algorithm. IEEE Photonics Journal, 2012, 4, 1653-1661.	1.0	10
119	A graphene nanoribbon neuro-sensor for glycine detection and imaging. Journal of Applied Physics, 2014, 115, .	1.1	10
120	Performance Enhanced Butt Coupling for Effective Interconnection Between Fiber and Silicon Nanowire. IEEE Journal of Quantum Electronics, 2016, 52, 1-6.	1.0	10
121	High-Speed Reconfigurable Free-Space Optical Interconnects with Carrierless-Amplitude-Phase Modulation and Space-Time-Block Code. Journal of Lightwave Technology, 2019, 37, 627-633.	2.7	10
122	Improved HLA-based prediction of coeliac disease identifies two novel genetic interactions. European Journal of Human Genetics, 2020, 28, 1743-1752.	1.4	10
123	Optimal controller switching for stochastic systems. , 0, , .		9
124	Implementation of a Gigabit Per Second Millimetre Wave Transceiver on CMOS. , 2007, , .		9
125	Radar-on-a-chip (ROACH). , 2010, , .		9
126	Scalable and Spectrally Efficient Long-Reach Optical Access Networks Employing Frequency Interleaved Directly Detected Optical OFDM. Journal of Optical Communications and Networking, 2011, 3, 881.	3.3	9

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127	Graphene nanopores as negative differential resistance devices. Journal of Applied Physics, 2015, 117, .	1.1	9
128	Multi-gigabit indoor optical wireless networks " Feasibility and challenges. , 2016, , .		9
129	A Label-Free, Quantitative Fecal Hemoglobin Detection Platform for Colorectal Cancer Screening. Biosensors, 2017, 7, 19.	2.3	9
130	Cross-ethnicity tagging SNPs for HLA alleles associated with adverse drug reaction. Pharmacogenomics Journal, 2019, 19, 230-239.	0.9	9
131	Analysis of minimum phase properties for non-affine nonlinear systems. , 0, , .		8
132	An Integrated Transformer Balun for 60 GHz Silicon RF IC Design. , 2007, , .		8
133	A 65nm CMOS low-power, low-voltage bandgapreference with using self-biased composite cascode opamp. , 2010, , .		8
134	High-Q flexible spiral inductive coils. , 2010, , .		8
135	Indoor gigabit optical wireless communication system for personal area networks. , 2010, , .		8
136	A subthreshold down converter optimized for super-low-power applications in MICS Band. , 2011, , .		8
137	Ultra-broadband indoor optical wireless communication system with multimode fiber. Optics Letters, 2012, 37, 1514.	1.7	8
138	Slow-wave slot microstrip transmission line and bandpass filter for compact millimetre-wave integrated circuits on bulk complementary metal oxide semiconductor. IET Microwaves, Antennas and Propagation, 2012, 6, 1548-1555.	0.7	8
139	Quantum conductance of armchair graphene nanopores with edge impurities. Journal of Applied Physics, 2013, 114, 073703.	1.1	8
140	Experimental demonstration of free-space based 120Gb/s reconfigurable card-to-card optical interconnects. Optics Letters, 2014, 39, 5717.	1.7	8
141	Dielectric properties of liquid phase molecular clusters using the external field method: molecular dynamics study. Physical Chemistry Chemical Physics, 2014, 16, 13943-13947.	1.3	8
142	Point-of-care molecular diagnostic devices: an overview. Pharmacogenomics, 2015, 16, 1399-1409.	0.6	8
143	An ultra low power digital receiver architecture for biomedical applications. , 2011, , .		7
144	Design of co-planar waveguide-fed slot/patch antenna with wire bond for a 60-GHz complementary metal-oxide-semiconductor transceiver. IET Microwaves, Antennas and Propagation, 2011, 5, 490.	0.7	7

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145	OFDM Versus Single Carrier Towards Spectrally Efficient 100ÅGb/s Transmission With Direct Detection. Journal of Optical Communications and Networking, 2012, 4, 779.	3.3	7
146	Optical performance monitoring for OFDM using low bandwidth coherent receivers. Optics Express, 2012, 20, 28724.	1.7	7
147	Comparison of corrected calibration independent transmission coefficient method to estimate complex permittivity. Sensors and Actuators A: Physical, 2013, 189, 466-473.	2.0	7
148	Space-Time-Coded High-Speed Reconfigurable Card-to-Card Free-Space Optical Interconnects. Journal of Optical Communications and Networking, 2017, 9, A189.	3.3	7
149	Compact Silicon Photonic Grating Coupler With Dual-Taper Partial Overlay Spot-Size Converter. IEEE Photonics Journal, 2017, 9, 1-7.	1.0	7
150	Optimal Controller Switching for Stochastic Systems. Lecture Notes in Computer Science, 1999, , 341-355.	1.0	7
151	A hybrid routing protocol for wireless sensor networks. , 2007, , .		6
152	IEEE 802.15.3c Medium Access Controller Throughput for Phased Array Systems. , 2007, , .		6
153	Angle of arrival extended S-V model for the 60 GHz wireless indoor channel. , 2007, , .		6
154	A 60 GHz VCO with 6GHz tuning range in 130 nm bulk CMOS. , 2008, , .		6
155	Design of 60GHz Millimetre-Wave Integrated SIR-MH Microstrip Bandpass Filters on Bulk CMOS. , 2008, , .		6
156	A super low power MICS band receiver in 65 nm CMOS for high resolution epi-retinal prosthesis. , 2009, , .		6
157	Closed-loop inductive link for wireless powering of a high density electrode array retinal prosthesis. , 2009, , .		6
158	Emergence of competitive control in a memristor-based neuromorphic circuit. , 2012, , .		6
159	A precise charge balancing and compliance voltage monitoring stimulator front-end for 1024-electrodes retinal prosthesis. , 2012, 2012, 3001-4.		6
160	A CMOS track-and-hold circuit with beyond 30 GHz input bandwidth. , 2012, , .		6
161	Functionalized Nanowire-Based Antigen Detection Using Frequency-Based Signals. IEEE Transactions on Biomedical Engineering, 2012, 59, 213-218.	2.5	6
162	Modeling and Estimating Simulated DNA Nanopore Translocation Signals. IEEE Sensors Journal, 2013, 13, 1216-1222.	2.4	6

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163	Graphene Self Switching Diodes with high rectification ratios. , 2013, , .		6
164	Consumer radar: Technology and limitations. , 2013, , .		6
165	1.15 Tb/s Nyquist PDM 16-QAM Transmission with Joint Matched Filtering and Frequency-Domain Equalization. , 2014, , .		6
166	Highly scalable neuromorphic hardware with 1-bit stochastic nano-synapses. , 2014, , .		6
167	Contactless electronic transport in a bio-molecular junction. Applied Physics Letters, 2014, 105, .	1.5	6
168	An active 38 GHz differential power divider for automotive radar systems in 65-nm CMOS. , 2014, , .		6
169	Silicon nanowire photodetector enhanced by a bow-tie antenna. Applied Physics A: Materials Science and Processing, 2014, 115, 491-493.	1.1	6
170	Experimental Demonstration of Full-Duplex Optical Wireless Personal Area Communication System with 16-CAP Modulation. , 2015, , .		6
171	Energy-filtered Electron Transport Structures for Low-power Low-noise 2-D Electronics. Scientific Reports, 2016, 6, 36167.	1.6	6
172	Facile fabrication of an electrolyte-gated In ₂ O ₃ nanoparticle-based thin-film transistor uniting laser ablation and inkjet printing. Flexible and Printed Electronics, 2018, 3, 042001.	1.5	6
173	Low-Complexity Fractionally-Spaced Frequency Domain Equalization with Improved Channel Estimation for Long-Haul Coherent Optical Systems. , 2013, , .		6
174	Distributed Source Localization Based on TOA Measurements in Wireless Sensor Networks. Research Letters in Electronics, 2009, 2009, 1-4.	0.6	5
175	Robust estimation of GCD with sparse coefficients. Signal Processing, 2010, 90, 972-976.	2.1	5
176	5â€“75â€…GHz common-gate subharmonic mixer in 65â€…nm CMOS. Electronics Letters, 2010, 46, 1203.	0.5	5
177	High-Speed Indoor Optical Wireless Communication System with a Steering Mirror Based Up-Link Receiver. , 2012, , .		5
178	Improved two-stage equalization for coherent Pol-Mux QPSK and 16-QAM systems. Optics Express, 2012, 20, B141.	1.7	5
179	Band-pass sampling techniques for high resolution multi-channel single-chip radar systems. , 2012, , .		5
180	Identification of MIMO systems with sparse transfer function coefficients. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	5

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181	Design of a capacitive DAC mismatch calibrator for split SAR ADC in 65 nm CMOS. , 2013, , .		5
182	Graphene nanopore field effect transistors. Journal of Applied Physics, 2014, 116, 023709.	1.1	5
183	Complex Permittivity Measurements in 1â€³30 GHz Using a MEMS Probe. Journal of Microelectromechanical Systems, 2015, 24, 976-981.	1.7	5
184	Heater Integrated Lab-on-a-Chip Device for Rapid HLA Alleles Amplification towards Prevention of Drug Hypersensitivity. Sensors, 2021, 21, 3413.	2.1	5
185	A microstrip antenna with flip-chip interconnect for millimetre wave transceiver on CMOS. , 2008, , .		4
186	Gigabit optical wireless communication system for indoor applications. , 2010, , .		4
187	A Flexible Electrode Driver Using 65 nm CMOS Process for 1024-Electrode Epi-Retinal Prosthesis. , 2010, , .		4
188	A low-power 5-75-GHz common-gate subharmonic mixer in 65-nm CMOS. , 2011, , .		4
189	PMD monitoring in 16-QAM coherent optical system using golay sequences. , 2012, , .		4
190	A High Performance Low Cost CMOS Radar for Advanced Driving Assistance Applications. , 2012, , .		4
191	Applying implicit training to polarization-division-multiplexed coherent optical systems. Optics Express, 2013, 21, 20187.	1.7	4
192	Response to Belgard et al.. Molecular Psychiatry, 2014, 19, 407-409.	4.1	4
193	Experimental Demonstration of Optical Wireless Indoor Localization System with Background Light Power Estimation. , 2015, , .		4
194	Multiple layers of siliconâ€³silica (Siâ€³SiO2) pair onto silicon substrate towards highly efficient, wideband silicon photonic grating coupler. Optical and Quantum Electronics, 2016, 48, 1.	1.5	4
195	Photonics for Gigabit Wireless Networks. , 2015, , .		4
196	Meander Thin-Film Biosensor Fabrication to Investigate the Influence of Structural Parameters on the Magneto-Impedance Effect. Sensors, 2021, 21, 6514.	2.1	4
197	A 70GHz VCO with 8GHz Tuning Range in 0.13um CMOS Technology. , 2008, , .		3
198	Gigabit optical wireless communication system for indoor applications. , 2010, , .		3

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199	Distortion analysis of ultra wide-band diode bridge track and hold amplifier. , 2010, , .		3
200	A super low power MICS band receiver front-end down converter on 65 nm CMOS. , 2010, , .		3
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202	Indoor gigabit full-duplex optical wireless communication system with SCM based multiple-user access. , 2011, , .		3
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