

# Efstratios Skafidas

## List of Publications by Citations

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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.

266  
papers

2,966  
citations

25  
h-index

40  
g-index

346  
ext. papers

3,709  
ext. citations

4.2  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
266	Stability results for switched controller systems. <i>Automatica</i> , <b>1999</b> , 35, 553-564	5.7	161
265	Microglial activation and progressive brain changes in schizophrenia. <i>British Journal of Pharmacology</i> , <b>2016</b> , 173, 666-80	8.6	126
264	Predicting the diagnosis of autism spectrum disorder using gene pathway analysis. <i>Molecular Psychiatry</i> , <b>2014</b> , 19, 504-10	15.1	106
263	. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 519-521	2.2	69
262	. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 1988-1996	4	66
261	High Performance Graphene Nano-ribbon Thermoelectric Devices by Incorporation and Dimensional Tuning of Nanopores. <i>Scientific Reports</i> , <b>2015</b> , 5, 11297	4.9	53
260	Robust output feedback stabilizability via controller switching. <i>Automatica</i> , <b>1999</b> , 35, 69-74	5.7	51
259	A Complete 256-Electrode Retinal Prosthesis Chip. <i>IEEE Journal of Solid-State Circuits</i> , <b>2014</b> , 49, 751-765	5.5	50
258	Enhanced tree routing for wireless sensor networks. <i>Ad Hoc Networks</i> , <b>2009</b> , 7, 638-650	4.8	46
257	Ultra-broadband and low-loss 3 dB optical power splitter based on adiabatic tapered silicon waveguides. <i>Optics Letters</i> , <b>2016</b> , 41, 2053-6	3	46
256	Filling schemes at submicron scale: development of submicron sized plasmonic colour filters. <i>Scientific Reports</i> , <b>2014</b> , 4, 6435	4.9	44
255	High-speed duplex optical wireless communication system for indoor personal area networks. <i>Optics Express</i> , <b>2010</b> , 18, 25199-216	3.3	44
254	Statistical moments-based OSNR monitoring for coherent optical systems. <i>Optics Express</i> , <b>2012</b> , 20, 17713-21	3.3	42
253	An associative capacitive network based on nanoscale complementary resistive switches for memory-intensive computing. <i>Nanoscale</i> , <b>2013</b> , 5, 5119-28	7.7	39
252	Hybrid dynamical systems: robust control synthesis problems. <i>Systems and Control Letters</i> , <b>1996</b> , 29, 81-90	4	36
251	All-graphene planar self-switching MISFEDs, Metal-Insulator-Semiconductor Field-Effect Diodes. <i>Scientific Reports</i> , <b>2014</b> , 4, 3983	4.9	34
250	A Silk Fibroin Bio-Transient Solution Processable Memristor. <i>Scientific Reports</i> , <b>2017</b> , 7, 14731	4.9	33

249	Negative differential resistance effect in planar graphene nanoribbon break junctions. <i>Nanoscale</i> , <b>2015</b> , 7, 289-93	7.7	32
248	. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 790-793	2.2	32
247	Recent advances in printable thermoelectric devices: materials, printing techniques, and applications.. <i>RSC Advances</i> , <b>2020</b> , 10, 8421-8434	3.7	30
246	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> , <b>2015</b> , 49, 197-205	16.6	28
245	A 60-GHz Double-Balanced Gilbert Cell Down-Conversion Mixer on 130-nm CMOS. <i>Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE</i> , <b>2007</b> ,		28
244	Phenotypic and Functional Characterization of Peripheral Sensory Neurons derived from Human Embryonic Stem Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 603	4.9	27
243	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 3783-3793	4.1	26
242	A 60-GHz CMOS Transmit/Receive Switch. <i>Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE</i> , <b>2007</b> ,		26
241	Wireless technologies for closed-loop retinal prostheses. <i>Journal of Neural Engineering</i> , <b>2009</b> , 6, 065004 5		25
240	High-speed indoor optical wireless communication system employing a silicon integrated photonic circuit. <i>Optics Letters</i> , <b>2018</b> , 43, 3132-3135	3	24
239	Lab on a chip sensor for rapid detection and antibiotic resistance determination of <i>Staphylococcus aureus</i> . <i>Analyst, The</i> , <b>2016</b> , 141, 1922-9	5	23
238	. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 188-190	2.2	23
237	60 GHz double-balanced up-conversion mixer on 130 nm CMOS technology. <i>Electronics Letters</i> , <b>2008</b> , 44, 633	1.1	23
236	Graphene nanopores: electronic transport properties and design methodology. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1451-9	3.6	22
235	Asymmetrically-gated graphene self-switching diodes as negative differential resistance devices. <i>Nanoscale</i> , <b>2014</b> , 6, 7628-34	7.7	22
234	Data-Aided OSNR Estimation for QPSK and 16-QAM Coherent Optical System. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 6601609-6601609	1.8	22
233	Direct Electrohydrodynamic Patterning of High-Performance All Metal Oxide Thin-Film Electronics. <i>ACS Nano</i> , <b>2019</b> , 13, 13957-13964	16.7	22
232	High-speed indoor optical wireless communication system with single channel imaging receiver. <i>Optics Express</i> , <b>2012</b> , 20, 8442-56	3.3	21

231	Minimum phase properties for input nonaffine nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 868-872	5.9	21
230	Indoor infrared optical wireless localization system with background light power estimation capability. <i>Optics Express</i> , <b>2017</b> , 25, 22923-22931	3.3	20
229	8\$,times,\$40-Gb/s Optical Coherent Pol-Mux Single Carrier System With Frequency Domain Equalization and Training Sequences. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 885-887	2.2	20
228	Angle of Arrival Extended S-V Model for the 60 Ghz Wireless Desktop Channel <b>2006</b> ,		20
227	Investigation of Frequency-Dependent Effects in Inductive Coils for Implantable Electronics. <i>IEEE Transactions on Magnetism</i> , <b>2013</b> , 49, 1353-1360	2	19
226	Plasmonic Colour Filters Based on Coaxial Holes in Aluminium. <i>Materials</i> , <b>2017</b> , 10,	3.5	19
225	The problem of optimal robust sensor scheduling. <i>Systems and Control Letters</i> , <b>2001</b> , 43, 149-157	2.4	19
224	Convergent evidence for mGluR5 in synaptic and neuroinflammatory pathways implicated in ASD. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2015</b> , 52, 172-7	9	18
223	Environmentally friendly power generator based on moving liquid dielectric and double layer effect. <i>Scientific Reports</i> , <b>2016</b> , 6, 26708	4.9	18
222	Trajectory-approximation-based adaptive control for nonlinear systems under matching conditions. <i>Automatica</i> , <b>1998</b> , 34, 287-299	5.7	18
221	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> , <b>2020</b> , 5, 046104	5.2	18
220	Tunneling-Limited Thermoelectric Transport in Carbon Nanotube Networks Embedded in Poly(dimethylsiloxane) Elastomer. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2419-2426	6.1	17
219	Optical Wireless-Based Indoor Localization System Employing a Single-Channel Imaging Receiver. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 1141-1149	4	17
218	Feasibility of Energy-Autonomous Wireless Microsensors for Biomedical Applications: Powering and Communication. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2015</b> , 8, 17-29	6.4	17
217	Pathway-wide association study identifies five shared pathways associated with schizophrenia in three ancestral distinct populations. <i>Translational Psychiatry</i> , <b>2017</b> , 7, e1037	8.6	16
216	Fully Solution-Processed Transparent Artificial Neural Network Using Drop-On-Demand Electrohydrodynamic Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17521-17530	9.5	16
215	Attentional set-shifting and social abilities in children with schizotypal and comorbid autism spectrum disorders. <i>Australian and New Zealand Journal of Psychiatry</i> , <b>2018</b> , 52, 68-77	2.6	16
214	Tuneable graphene nanopores for single biomolecule detection. <i>Nanoscale</i> , <b>2016</b> , 8, 10066-77	7.7	16

213	A cluster analysis exploration of autism spectrum disorder subgroups in children without intellectual disability. <i>Research in Autism Spectrum Disorders</i> , <b>2017</b> , 36, 66-78	3	15
212	Experimental demonstration of a novel indoor optical wireless localization system for high-speed personal area networks. <i>Optics Letters</i> , <b>2015</b> , 40, 1246-9	3	15
211	Resonant tunneling based graphene quantum dot memristors. <i>Nanoscale</i> , <b>2016</b> , 8, 20074-20079	7.7	15
210	A 60-GHz fully-integrated Doherty power amplifier based on 0.13- $\mu\text{m}$ CMOS process <b>2008</b> ,		15
209	Low-Loss and Broadband $\sqrt{2}$ times $2\sqrt{2}$ Polarization Beam Splitter Based on Silicon Nitride Platform. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1936-1939	2.2	15
208	Experimental Demonstration of Indoor Infrared Optical Wireless Communications With a Silicon Photonic Integrated Circuit. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 619-626	4	15
207	An interdigitated electrode biosensor platform for rapid HLA-B*15:02 genotyping for prevention of drug hypersensitivity. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 111, 174-183	11.8	14
206	All-Graphene Planar Double Barrier Resonant Tunneling Diodes. <i>IEEE Journal of the Electron Devices Society</i> , <b>2014</b> , 2, 118-122	2.3	14
205	Experimental demonstration of high-speed free-space reconfigurable card-to-card optical interconnects. <i>Optics Express</i> , <b>2013</b> , 21, 2850-61	3.3	14
204	Impact of background light induced shot noise in high-speed full-duplex indoor optical wireless communication systems. <i>Optics Express</i> , <b>2011</b> , 19, 21321-32	3.3	14
203	A prototype 64-electrode stimulator in 65 nm CMOS process towards a high density epi-retinal prosthesis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6729-32	0.9	14
202	Millimeter-wave integrated radar systems and techniques <b>2018</b> , 317-363		14
201	Label-free screening of single biomolecules through resistive pulse sensing technology for precision medicine applications. <i>Nanotechnology</i> , <b>2015</b> , 26, 182502	3.4	13
200	A meta-analysis of in vitro exposures to weak radiofrequency radiation exposure from mobile phones (1990-2015). <i>Environmental Research</i> , <b>2020</b> , 184, 109227	7.9	13
199	Self-Organized Nanostructure Modified Microelectrode for Sensitive Electrochemical Glutamate Detection in Stem Cells-Derived Brain Organoids. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	13
198	An ab-initio computational method to determine dielectric properties of biological materials. <i>Scientific Reports</i> , <b>2013</b> , 3, 1796	4.9	13
197	Capacity and data rate for millimeter wavelength systems in a short range package radio transceiver. <i>IEEE Transactions on Wireless Communications</i> , <b>2010</b> , 9, 903-906	9.6	13
196	Design of 60 GHz millimetre-wave bandpass filter on bulk CMOS. <i>IET Microwaves, Antennas and Propagation</i> , <b>2009</b> , 3, 943	1.6	13

195	Monolayer MoS <sub>2</sub> self-switching diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 044506	2.5	13
194	Four-Wave-Mixing-Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1739-1742	2.2	12
193	Detection of protein conformational changes with multilayer graphene nanopore sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16777-81	9.5	12
192	. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 1407-1419	1.8	12
191	Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 283-286	3.8	12
190	Data-Aided Chromatic Dispersion Estimation for Polarization Multiplexed Optical Systems. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 2037-2049	1.8	12
189	Investigating enhanced thermoelectric performance of graphene-based nano-structures. <i>Nanoscale</i> , <b>2018</b> , 10, 4786-4792	7.7	11
188	An ultra-low-power and low-noise voltage-controlled ring oscillator for biomedical applications <b>2013</b> ,		11
187	Wireless power delivery for retinal prostheses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 8356-60	0.9	11
186	A 77 GHz CMOS low noise amplifier for automotive radar receiver <b>2012</b> ,		11
185	A 60-GHz transceiver on CMOS <b>2008</b> ,		11
184	Vertical Nanowire Electrode Arrays as Novel Electrochemical Label-Free Immunosensors. <i>Small</i> , <b>2015</b> , 11, 2862-8	11	10
183	Graphene foam as a biocompatible scaffold for culturing human neurons. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 171364	3.3	10
182	A compact silicon grating coupler based on hollow tapered spot-size converter. <i>Scientific Reports</i> , <b>2018</b> , 8, 2540	4.9	10
181	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 641-647	5.2	10
180	WDR62 Regulates Early Neural and Glial Progenitor Specification of Human Pluripotent Stem Cells. <i>Stem Cells International</i> , <b>2017</b> , 2017, 7848932	5	10
179	Ultrasensitive and label-free biosensor for the detection of Plasmodium falciparum histidine-rich protein II in saliva. <i>Scientific Reports</i> , <b>2019</b> , 9, 17495	4.9	10
178	Development of an Ultrasensitive Impedimetric Immunosensor Platform for Detection of Lactate Dehydrogenase. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9

177	High contrast circular grating reflector on silicon-on-insulator platform. <i>Optics Letters</i> , <b>2016</b> , 41, 520-3	3	9
176	GFAP Antibody Detection Using Interdigital Coplanar Waveguide Immunosensor. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 2898-2905	4	9
175	Highly Effective Conductance Modulation in Planar Silicene Field Effect Devices Due to Buckling. <i>Scientific Reports</i> , <b>2015</b> , 5, 14815	4.9	9
174	Consumer radar: Opportunities and challenges <b>2014</b> ,		9
173	A low power MICS band phase-locked loop for high resolution retinal prosthesis. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2013</b> , 7, 513-25	5.1	9
172	High-speed free-space based reconfigurable card-to-card optical interconnects with broadcast capability. <i>Optics Express</i> , <b>2013</b> , 21, 15395-400	3.3	9
171	60 GHz compact integrated cross-coupled SIR-MH bandpass filter on bulk CMOS. <i>Electronics Letters</i> , <b>2008</b> , 44, 738	1.1	9
170	Issues in the Implementation of a 60GHz Transceiver on CMOS <b>2007</b> ,		9
169	Characterization of the 60 GHz Wireless Desktop Channel. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 2129-2133	4.9	9
168	No preliminary evidence of differences in astrocyte density within the white matter of the dorsolateral prefrontal cortex in autism. <i>Molecular Autism</i> , <b>2017</b> , 8, 64	6.5	8
167	All-Graphene Planar Double-Quantum-Dot Resonant Tunneling Diodes. <i>IEEE Journal of the Electron Devices Society</i> , <b>2016</b> , 4, 30-39	2.3	8
166	Dielectric properties of liquid phase molecular clusters using the external field method: molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 13943-7	3.6	8
165	Impact of Crosstalk on Indoor WDM Optical Wireless Communication Systems. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 375-386	1.8	8
164	Performance of High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects Under Air Turbulence. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 1687-1693	4	8
163	Digital Signal Processing for Training-Aided Coherent Optical Single-Carrier Frequency-Domain Equalization Systems. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 4712-4722	4	8
162	A graphene nanoribbon neuro-sensor for glycine detection and imaging. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 214303	2.5	8
161	Design of a compact ultra wideband balanced-to-balanced power divider/combiner <b>2013</b> ,		8
160	Scalable and Spectrally Efficient Long-Reach Optical Access Networks Employing Frequency Interleaved Directly Detected Optical OFDM. <i>Journal of Optical Communications and Networking</i> , <b>2011</b> , 3, 881	4.1	8

159	A fully flexible stimulator using 65 nm CMOS process for 1024-electrode epi-retinal prosthesis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1643-6	0.9	8
158	Frequency-Domain Blind Equalization for Long-Haul Coherent Pol-Mux 16-QAM System With CD Prediction and Dual-Mode Adaptive Algorithm. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 1653-1661	1.8	8
157	A 40 GHz Power Efficient Static CML Frequency Divider in 0.13- $\mu$ m CMOS Technology for High Speed Millimeter-Wave Wireless Systems <b>2008</b> ,		8
156	A 60-GHz Double-Balanced Mixer for Direct Up-Conversion Transmitter on 130-nm CMOS. <i>Compound Semiconductor Integrated Circuit Symposium (CSICS), IEEE</i> , <b>2008</b> ,		8
155	Implementation of a Gigabit Per Second Millimetre Wave Transceiver on CMOS <b>2007</b> ,		8
154	Chromatic Dispersion Estimation in 40 Gb/s Coherent Polarization-Multiplexed Single Carrier System using Complementary Golay Sequences <b>2012</b> ,		8
153	Enhanced thermoelectric performance of graphene nanoribbon-based devices. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 125106	2.5	8
152	Performance Enhanced Butt Coupling for Effective Interconnection Between Fiber and Silicon Nanowire. <i>IEEE Journal of Quantum Electronics</i> , <b>2016</b> , 52, 1-6	2	8
151	Point-of-care molecular diagnostic devices: an overview. <i>Pharmacogenomics</i> , <b>2015</b> , 16, 1399-409	2.6	7
150	Comparison of corrected calibration independent transmission coefficient method to estimate complex permittivity. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 189, 466-473	3.9	7
149	OFDM Versus Single Carrier Towards Spectrally Efficient 100 Gb/s Transmission With Direct Detection. <i>Journal of Optical Communications and Networking</i> , <b>2012</b> , 4, 779	4.1	7
148	Experimental demonstration of 3B 10 Gb/s reconfigurable free space optical card-to-card interconnects. <i>Optics Letters</i> , <b>2012</b> , 37, 2553-5	3	7
147	Magneto-Impedance Biosensor Sensitivity: Effect and Enhancement. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
146	High-Speed Reconfigurable Free-Space Optical Interconnects with Carrierless-Amplitude-Phase Modulation and Space-Time-Block Code. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 627-633	4	7
145	Graphene nanopores as negative differential resistance devices. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 054306	2.5	6
144	A tight binding and [Formula: see text] study of monolayer stanene. <i>Scientific Reports</i> , <b>2017</b> , 7, 12069	4.9	6
143	A Label-Free, Quantitative Fecal Hemoglobin Detection Platform for Colorectal Cancer Screening. <i>Biosensors</i> , <b>2017</b> , 7,	5.9	6
142	Highly scalable neuromorphic hardware with 1-bit stochastic nano-synapses <b>2014</b> ,		6



141	Slow-wave slot microstrip transmission line and bandpass filter for compact millimetre-wave integrated circuits on bulk complementary metal oxide semiconductor. <i>IET Microwaves, Antennas and Propagation</i> , <b>2012</b> , 6, 1548-1555	1.6	6
140	Design of hybrid resistive-capacitive DAC for SAR A/D converters <b>2012</b> ,		6
139	Quantum conductance of armchair graphene nanopores with edge impurities. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 073703	2.5	6
138	Consumer radar: Technology and limitations <b>2013</b> ,		6
137	Design of co-planar waveguide-fed slot/patch antenna with wire bond for a 60-GHz complementary metal-oxide-semiconductor transceiver. <i>IET Microwaves, Antennas and Propagation</i> , <b>2011</b> , 5, 490	1.6	6
136	Radar-on-a-chip (ROACH) <b>2010</b> ,		6
135	High-Q flexible spiral inductive coils <b>2010</b> ,		6
134	An ultra low power digital receiver architecture for biomedical applications <b>2011</b> ,		6
133	Ultra-broadband indoor optical wireless communication system with multimode fiber. <i>Optics Letters</i> , <b>2012</b> , 37, 1514-6	3	6
132	Optimal controller switching for stochastic systems		6
131	Analysis and Design of a 50-GHz 2:1 CMOS CML Static Frequency Divider Based on LC-tank <b>2008</b> ,		6
130	Low-Complexity Fractionally-Spaced Frequency Domain Equalization with Improved Channel Estimation for Long-Haul Coherent Optical Systems <b>2013</b> ,		6
129	Space-Time-Coded High-Speed Reconfigurable Card-to-Card Free-Space Optical Interconnects. <i>Journal of Optical Communications and Networking</i> , <b>2017</b> , 9, A189	4.1	5
128	Compact Silicon Photonic Grating Coupler With Dual-Taper Partial Overlay Spot-Size Converter. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-7	1.8	5
127	Energy-filtered Electron Transport Structures for Low-power Low-noise 2-D Electronics. <i>Scientific Reports</i> , <b>2016</b> , 6, 36167	4.9	5
126	Cross-ethnicity tagging SNPs for HLA alleles associated with adverse drug reaction. <i>Pharmacogenomics Journal</i> , <b>2019</b> , 19, 230-239	3.5	5
125	Graphene nanopore field effect transistors. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 023709	2.5	5
124	Silicon nanowire photodetector enhanced by a bow-tie antenna. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 491-493	2.6	5

123	Functionalized nanowire-based antigen detection using frequency-based signals. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 213-8	5	5
122	Experimental demonstration of free-space based 120 Gb/s reconfigurable card-to-card optical interconnects. <i>Optics Letters</i> , <b>2014</b> , 39, 5717-20	3	5
121	1.15 Tb/s Nyquist PDM 16-QAM Transmission with Joint Matched Filtering and Frequency-Domain Equalization <b>2014</b> ,		5
120	Optical performance monitoring for OFDM using low bandwidth coherent receivers. <i>Optics Express</i> , <b>2012</b> , 20, 28724-33	3.3	5
119	Identification of MIMO systems with sparse transfer function coefficients. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2012</b> , 2012,	1.9	5
118	A CMOS track-and-hold circuit with beyond 30 GHz input bandwidth <b>2012</b> ,		5
117	Graphene Self Switching Diodes with high rectification ratios <b>2013</b> ,		5
116	Indoor gigabit optical wireless communication system for personal area networks <b>2010</b> ,		5
115	A subthreshold down converter optimized for super-low-power applications in MICS Band <b>2011</b> ,		5
114	Improved two-stage equalization for coherent Pol-Mux QPSK and 16-QAM systems. <i>Optics Express</i> , <b>2012</b> , 20, B141-50	3.3	5
113	Analysis of minimum phase properties for non-affine nonlinear systems		5
112	An Integrated Transformer Balun for 60 GHz Silicon RF IC Design <b>2007</b> ,		5
111	Design of integrated millimetre wave microstrip interdigital bandpass filters on CMOS technology <b>2007</b> ,		5
110	Facile fabrication of an electrolyte-gated In <sub>2</sub> O <sub>3</sub> nanoparticle-based thin-film transistor uniting laser ablation and inkjet printing. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 042001	3.1	5
109	Optimal Controller Switching for Stochastic Systems. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 341-355	0.9	5
108	Experimental Demonstration of Full-Duplex Optical Wireless Personal Area Communication System with 16-CAP Modulation <b>2015</b> ,		4
107	Multi-gigabit indoor optical wireless networks [Feasibility and challenges <b>2016</b> ,		4
106	Complex Permittivity Measurements in 180 GHz Using a MEMS Probe. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 976-981	2.5	4

105	Contactless electronic transport in a bio-molecular junction. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 043102	3-4	4
104	Emergence of competitive control in a memristor-based neuromorphic circuit <b>2012</b> ,		4
103	575 GHz common-gate subharmonic mixer in 65 nm CMOS. <i>Electronics Letters</i> , <b>2010</b> , 46, 1203	1-1	4
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101	Closed-loop inductive link for wireless powering of a high density electrode array retinal prosthesis <b>2009</b> ,		4
100	Robust estimation of GCD with sparse coefficients. <i>Signal Processing</i> , <b>2010</b> , 90, 972-976	4-4	4
99	Design of 60GHz Millimetre-Wave Integrated SIR-MH Microstrip Bandpass Filters on Bulk CMOS <b>2008</b> ,		4
98	IEEE 802.15.3c Medium Access Controller Throughput for Phased Array Systems <b>2007</b> ,		4
97	Improved HLA-based prediction of coeliac disease identifies two novel genetic interactions. <i>European Journal of Human Genetics</i> , <b>2020</b> , 28, 1743-1752	5-3	4
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94	Design of a capacitive DAC mismatch calibrator for split SAR ADC in 65 nm CMOS <b>2013</b> ,		3
93	Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1261-1264	2-2	3
92	Free-Space 120 Gb/s Reconfigurable Card-to-Card Optical Wireless Interconnects with 16-CAP Modulation <b>2014</b> ,		3
91	A High Performance Low Cost CMOS Radar for Advanced Driving Assistance Applications <b>2012</b> ,		3
90	Design of the internal DAC in SAR ADCs <b>2012</b> ,		3
89	Band-pass sampling techniques for high resolution multi-channel single-chip radar systems <b>2012</b> ,		3
88	A simple voltage reference with ultra supply independency <b>2012</b> ,		3

87	Applying implicit training to polarization-division-multiplexed coherent optical systems. <i>Optics Express</i> , <b>2013</b> , 21, 20187-96	3.3	3
86	A novel slow-wave structure for millimeter-wave filter application on bulk CMOS <b>2011</b> ,		3
85	Gigabit optical wireless communication system for indoor applications <b>2010</b> ,		3
84	A Flexible Electrode Driver Using 65 nm CMOS Process for 1024-Electrode Epi-Retinal Prosthesis <b>2010</b> ,		3
83	A super low power MICS band receiver in 65 nm CMOS for high resolution epi-retinal prosthesis <b>2009</b> ,		3
82	PMD monitoring in 16-QAM coherent optical system using golay sequences <b>2012</b> ,		3
81	Angle of arrival extended S-V model for the 60 GHz wireless indoor channel <b>2007</b> ,		3
80	Training-Aided PDM 64-QAM Transmission with Enhanced Fiber Nonlinearity Tolerance <b>2014</b> ,		3
79	Low-Temperature Solution-Processed Transparent QLED Using Inorganic Metal Oxide Carrier Transport Layers. <i>Advanced Functional Materials</i> ,2106387	15.6	3
78	Structural and functional brain abnormalities in children with schizotypal disorder: a pilot study. <i>NPJ Schizophrenia</i> , <b>2020</b> , 6, 6	5.5	2
77	Rapid, Loop-Mediated Isothermal Amplification Detection of Celiac Disease Risk Alleles. <i>Journal of Molecular Diagnostics</i> , <b>2018</b> , 20, 307-315	5.1	2
76	Rapid Detection of HLA-B*57:01-Expressing Cells Using a Label-Free Interdigitated Electrode Biosensor Platform for Prevention of Abacavir Hypersensitivity in HIV Treatment. <i>Sensors</i> , <b>2019</b> , 19,	3.8	2
75	Design and implementation of an 11-bit 50-MS/s split SAR ADC in 65 nm CMOS <b>2014</b> ,		2
74	On the Utility of Dielectric Spectroscopy Techniques to Identify Compounds and Estimate Concentrations of Binary Mixtures. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 538-546	4	2
73	Gapped graphene nanopores with enhanced operating current and sensitivity for biological and chemical sensing applications. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 033104	3.4	2
72	A flexible wide bandwidth electro-optic probing system using a recirculating frequency shifter <b>2014</b> ,		2
71	Balanced heterodyne architecture for improving the noise performance of electro-optic probing systems <b>2013</b> ,		2
70	A charge-balanced 4-wire interface for the interconnections of biomedical implants <b>2013</b> ,		2

69	Experimental Demonstration of Optical Wireless Indoor Localization System with Background Light Power Estimation <b>2015</b> ,		2
68	Response to Belgard et al. <i>Molecular Psychiatry</i> , <b>2014</b> , 19, 407-9	15.1	2
67	Enhanced thermoelectric properties of engineered graphene nano-ribbons with nano-pores <b>2014</b> ,		2
66	An active 38 GHz differential power divider for automotive radar systems in 65-nm CMOS <b>2014</b> ,		2
65	A low-power, small-area and programmable bandgap reference <b>2012</b> ,		2
64	Single carrier QPSK and 16 QAM system demonstration using frequency domain equalization and training sequences <b>2012</b> ,		2
63	A precise charge balancing and compliance voltage monitoring stimulator front-end for 1024-electrodes retinal prosthesis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 3001-4	0.9	2
62	High-speed reconfigurable card-to-card optical interconnects based on hybrid free-space and multi-mode fiber propagations. <i>Optics Express</i> , <b>2013</b> , 21, 31166-75	3.3	2
61	Nanosensors for next generation drug screening <b>2013</b> ,		2
60	Indoor gigabit full-duplex optical wireless communication system with SCM based multiple-user access <b>2011</b> ,		2
59	A super low power MICS band receiver front-end down converter on 65 nm CMOS <b>2010</b> ,		2
58	A low-power 5-75-GHz common-gate subharmonic mixer in 65-nm CMOS <b>2011</b> ,		2
57	100 Gb/s 1024-way-split 100-km long-reach PON using spectrally efficient frequency interleaved directly detected optical OFDM <b>2011</b> ,		2
56	High-Speed Indoor Optical Wireless Communication System with a Steering Mirror Based Up-Link Receiver <b>2012</b> ,		2
55	A 60-GHz direct-conversion transmitter in 130-nm CMOS <b>2008</b> ,		2
54	50 GHz static frequency divider in 130 nm CMOS. <i>Electronics Letters</i> , <b>2008</b> , 44, 285	1.1	2
53	A 60-GHz power amplifier and transmit/receive switch for integrated CMOS wireless transceivers <b>2008</b> ,		2
52	A microstrip antenna with flip-chip interconnect for millimetre wave transceiver on CMOS <b>2008</b> ,		2

51	A hybrid routing protocol for wireless sensor networks <b>2007</b> ,		2
50	High-Speed Full-Duplex Optical Wireless Communication Systems for Indoor Applications <b>2011</b> ,		2
49	Photonics for Gigabit Wireless Networks <b>2015</b> ,		2
48	Meander Thin-Film Biosensor Fabrication to Investigate the Influence of Structural Parameters on the Magneto-Impedance Effect. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
47	Memristive in Situ Computing <b>2014</b> , 413-428		2
46	Heater Integrated Lab-on-a-Chip Device for Rapid HLA Alleles Amplification towards Prevention of Drug Hypersensitivity. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
45	Non-equilibrium tunneling in zigzag graphene nanoribbon break-junction results in spin filtering. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 053902	2.5	2
44	Multiple layers of siliconBilica (SiBiO2) pair onto silicon substrate towards highly efficient, wideband silicon photonic grating coupler. <i>Optical and Quantum Electronics</i> , <b>2016</b> , 48, 1	2.4	2
43	<b>2015</b> ,		1
42	Ultra-compact broadband high efficient grating coupler <b>2015</b> ,		1
41	A Fully Printed Backscatter Radio Transceiver <b>2019</b> ,		1
40	Experimental demonstration of high-speed reconfigurable card-to-card optical interconnects with broadcast capability <b>2013</b> ,		1
39	Microring-based wavelength-selective reflection/rejection filter with independently determined bandwidth and reflectance <b>2013</b> ,		1
38	Analysis of Optimum Aspect Ratio of Transistor for a Low-Power and Low-Phase Noise VCO for Biomedical Applications <b>2013</b> ,		1
37	Distributed routing for signal detection in wireless sensor networks. <i>Computer Networks</i> , <b>2013</b> , 57, 3957-3966	5.4	1
36	Experimental demonstration of space-time-coded robust high-speed indoor optical wireless communication system <b>2015</b> ,		1
35	Performance of reconfigurable free-space card-to-card optical interconnects under atmospheric turbulence <b>2012</b> ,		1
34	Two-stage frequency domain blind equalization for coherent pol-mux 16-QAM system with CD prediction and dual-mode adaptive algorithm <b>2012</b> ,		1

33	Indoor optical wireless localization system with height estimation for high-speed wireless communications in personal areas <b>2012</b> ,	1
32	Frequency domain multi-modulus blind equalization for coherent 16 QAM polarization-multiplexed system <b>2012</b> ,	1
31	Flexible bandwidth DGD estimation for coherent optical OFDM system. <i>Optics Express</i> , <b>2013</b> , 21, 25788-95,	1
30	A flexible biphasic pulse generating and accurate charge balancing stimulator with a 1W neural recording amplifier <b>2013</b> ,	1
29	Free-space optics for high-speed reconfigurable card-to-card optical interconnects <b>2013</b> ,	1
28	A 20 pJ/b (10 $\mu$ W) digital receiver based on a new modulation (SAS) for retinal prosthesis application <b>2011</b> ,	1
27	Distortion analysis of ultra wide-band diode bridge track and hold amplifier <b>2010</b> ,	1
26	A 65nm CMOS low-power, low-voltage bandgapreference with using self-biased composite cascode opamp <b>2010</b> ,	1
25	Distributed source localization in wireless sensor networks <b>2010</b> ,	1
24	A 7GHz 1mV-input-resolution comparator with 40mV-input-referred-offset compensation capability in 65NM CMOS <b>2011</b> ,	1
23	An LO power distribution network design for integrated 60-GHz transceiver on chip <b>2009</b> ,	1
22	A 400-W 3-GHz comparator in 65-nm CMOS <b>2012</b> ,	1
21	A 60 GHz VCO with 6GHz tuning range in 130 nm bulk CMOS <b>2008</b> ,	1
20	A 70GHz VCO with 8GHz Tuning Range in 0.13um CMOS Technology <b>2008</b> ,	1
19	A 60-GHz variable delay line on CMOS for steerable antennae in wireless communication systems. <i>Canadian Conference on Electrical and Computer Engineering</i> , <b>2008</b> ,	1
18	A 75 - 95 GHz Wideband CMOS Power Amplifier <b>2008</b> ,	1
17	A 75 - 95 GHz Wideband CMOS Power Amplifier <b>2008</b> ,	1
16	Design and Optimisation of Elliptical-Shaped Planar Hall Sensor for Biomedical Applications.. <i>Biosensors</i> , <b>2022</b> , 12,	5.9 1

15	Application-driven Design <b>2007</b> , 333-348		1
14	Memristive In Situ Computing <b>2019</b> , 1005-1020		1
13	Recirculating Frequency Shifter-Based Hybrid Electro-Optic Probing System with Ultra-Wide Bandwidth. <i>IEICE Transactions on Electronics</i> , <b>2015</b> , E98.C, 857-865	0.4	1
12	Gigabit Optical Wireless Communication System for Indoor Applications <b>2010</b> ,		1
11	Experimental Demonstration of a Centralized Optical Wireless Indoor Localization System for High-Speed Communications in Personal Areas <b>2013</b> ,		1
10	Letter: improved parsimony of genetic risk scores for coeliac disease through refined HLA modelling. <i>Alimentary Pharmacology and Therapeutics</i> , <b>2021</b> , 53, 759-760	6.1	1
9	A fully integrated 200 $\mu$ W, 40 pJ/b wireless transmitter for implanted medical devices and neural prostheses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3246-9	0.9	0
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1	Feasibility study of molecular memory device based on DNA using methylation to store information. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 025501		2.5