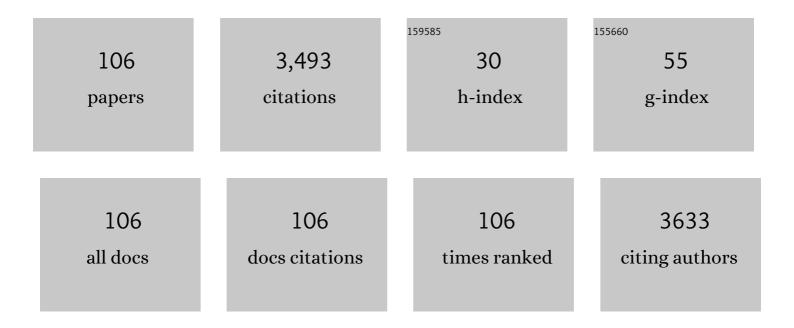
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1940701/publications.pdf Version: 2024-02-01



Διβέρτο Ι Ρλιμλ

#	Article	IF	CITATIONS
1	Smartphone-Based Simultaneous pH and Nitrite Colorimetric Determination for Paper Microfluidic Devices. Analytical Chemistry, 2014, 86, 9554-9562.	6.5	348
2	Recent developments in computer vision-based analytical chemistry: A tutorial review. Analytica Chimica Acta, 2015, 899, 23-56.	5.4	220
3	Mobile phone platform as portable chemical analyzer. Sensors and Actuators B: Chemical, 2011, 156, 350-359.	7.8	145
4	Recent developments in handheld and portable optosensing—A review. Analytica Chimica Acta, 2011, 696, 27-46.	5.4	127
5	Design and characterization of a low thermal drift capacitive humidity sensor by inkjet-printing. Sensors and Actuators B: Chemical, 2014, 195, 123-131.	7.8	118
6	Properties and Printability of Inkjet and Screen-Printed Silver Patterns for RFID Antennas. Journal of Electronic Materials, 2014, 43, 604-617.	2.2	117
7	Quantum two-dimensional calculation of time constants of random telegraph signals in metal-oxide–semiconductor structures. Physical Review B, 1997, 56, 9565-9574.	3.2	116
8	Using the mobile phone as Munsell soil-colour sensor: An experiment under controlled illumination conditions. Computers and Electronics in Agriculture, 2013, 99, 200-208.	7.7	113
9	Physical model for trap-assisted inelastic tunneling in metal-oxide-semiconductor structures. Journal of Applied Physics, 2001, 90, 3396-3404.	2.5	89
10	A comprehensive model for Coulomb scattering in inversion layers. Journal of Applied Physics, 1994, 75, 924-934.	2.5	83
11	Evaluation of a low-cost commercial mosfet as radiation dosimeter. Sensors and Actuators A: Physical, 2006, 125, 288-295.	4.1	80
12	Fast prototyping of paper-based microfluidic devices by contact stamping using indelible ink. RSC Advances, 2013, 3, 18811.	3.6	80
13	Flexible Passive near Field Communication Tag for Multigas Sensing. Analytical Chemistry, 2017, 89, 1697-1703.	6.5	78
14	Direct and trap-assisted elastic tunneling through ultrathin gate oxides. Journal of Applied Physics, 2002, 91, 5116-5124.	2.5	77
15	Screen Printed Flexible Radiofrequency Identification Tag for Oxygen Monitoring. Analytical Chemistry, 2013, 85, 11098-11105.	6.5	76
16	Smart facemask for wireless CO2 monitoring. Nature Communications, 2022, 13, 72.	12.8	73
17	Effects of the inversion-layer centroid on the performance of double-gate MOSFETs. IEEE Transactions on Electron Devices, 2000, 47, 141-146.	3.0	72
18	A novel electrode structure compared with interdigitated electrodes as capacitive sensor. Sensors and Actuators B: Chemical, 2014, 204, 552-560.	7.8	68

#	Article	IF	CITATIONS
19	Printed electrodes structures as capacitive humidity sensors: A comparison. Sensors and Actuators A: Physical, 2016, 244, 56-65.	4.1	68
20	Development of an Electrical Capacitance Tomography system using four rotating electrodes. Sensors and Actuators A: Physical, 2008, 148, 366-375.	4.1	60
21	Efficient wavelet-based ECG processing for single-lead FHR extraction. , 2013, 23, 1897-1909.		59
22	Passive UHF RFID Tag with Multiple Sensing Capabilities. Sensors, 2015, 15, 26769-26782.	3.8	57
23	A simple subthreshold swing model for short channel MOSFETs. Solid-State Electronics, 2001, 45, 391-397.	1.4	56
24	HF RFID Tag as Humidity Sensor: Two Different Approaches. IEEE Sensors Journal, 2015, 15, 5726-5733.	4.7	45
25	Design and Development of Sensing RFID Tags on Flexible Foil Compatible With EPC Gen 2. IEEE Sensors Journal, 2014, 14, 4361-4371.	4.7	44
26	Noise Suppression in ECG Signals through Efficient One-Step Wavelet Processing Techniques. Journal of Applied Mathematics, 2013, 2013, 1-13.	0.9	42
27	Sensor array-based optical portable instrument for determination of pH. Sensors and Actuators B: Chemical, 2011, 156, 840-848.	7.8	36
28	General-purpose passive wireless point–of–care platform based on smartphone. Biosensors and Bioelectronics, 2019, 141, 111360.	10.1	36
29	A printed capacitive–resistive double sensor for toluene and moisture sensing. Sensors and Actuators B: Chemical, 2015, 210, 542-549.	7.8	35
30	Flexible ECG acquisition system based on analog and digital reconfigurable devices. Sensors and Actuators A: Physical, 2011, 165, 261-270.	4.1	34
31	Printed single-chip UHF passive radio frequency identification tags with sensing capability. Sensors and Actuators A: Physical, 2014, 220, 281-289.	4.1	33
32	A Portable Luminometer with a Disposable Electrochemiluminescent Biosensor for Lactate Determination. Sensors, 2009, 9, 7694-7710.	3.8	31
33	Wireless wearable wristband for continuous sweat pH monitoring. Sensors and Actuators B: Chemical, 2021, 327, 128948.	7.8	30
34	Oxygen-sensing film coated photodetectors for portable instrumentation. Analytica Chimica Acta, 2007, 583, 166-173.	5.4	28
35	Passive UHF RFID Tag for Multispectral Assessment. Sensors, 2016, 16, 1085.	3.8	28
36	Microcontroller-based portable instrument for stabilised optical oxygen sensor. Sensors and Actuators B: Chemical, 2007, 121, 629-638.	7.8	25

#	Article	IF	CITATIONS
37	An application of reconfigurable technologies for non-invasive fetal heart rate extraction. Medical Engineering and Physics, 2013, 35, 1005-1014.	1.7	25
38	Evaluation of a reconfigurable portable instrument for copper determination based on luminescent carbon dots. Analytical and Bioanalytical Chemistry, 2016, 408, 3013-3020.	3.7	25
39	Readout techniques for linearity and resolution improvements in MOSFET dosimeters. Sensors and Actuators A: Physical, 2010, 157, 178-184.	4.1	24
40	Embedded sensor insole for wireless measurement of gait parameters. Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 25-35.	1.3	24
41	A compact and low cost dosimetry system based on MOSFET for in vivo radiotherapy. Sensors and Actuators A: Physical, 2012, 182, 146-152.	4.1	22
42	Compact optical instrument for simultaneous determination of oxygen and carbon dioxide. Mikrochimica Acta, 2011, 172, 455-464.	5.0	20
43	Measuring the colour of virgin olive oils in a new colour scale using a low-cost portable electronic device. Journal of Food Engineering, 2012, 111, 247-254.	5.2	20
44	General purpose MOSFETs for the dosimetry of electron beams used in intra-operative radiotherapy. Sensors and Actuators A: Physical, 2014, 210, 175-181.	4.1	20
45	Effects of oxide-charge space correlation on electron mobility in inversion layers. Semiconductor Science and Technology, 1994, 9, 1102-1107.	2.0	19
46	Portable reconfigurable instrument for analytical determinations using disposable electrochemiluminescent screen-printed electrodes. Sensors and Actuators B: Chemical, 2012, 169, 46-53.	7.8	19
47	Hand-held optical instrument for CO2 in gas phase based on sensing film coating optoelectronic elements. Sensors and Actuators B: Chemical, 2010, 144, 232-238.	7.8	18
48	Electric Field Dependence of the Electron Capture Cross Section of Neutral Traps in SiO2. Journal of the Electrochemical Society, 1996, 143, 2687-2690.	2.9	17
49	A simplified measurement procedure and portable electronic photometer for disposable sensors based on ionophore-chromoionophore chemistry for potassium determination. Analytical and Bioanalytical Chemistry, 2006, 386, 1215-1224.	3.7	16
50	Improved manufacturing process for printed cantilevers by using water removable sacrificial substrate. Sensors and Actuators A: Physical, 2015, 235, 171-181.	4.1	16
51	Influence of mobility fluctuations on random telegraph signal amplitude in n-channel metal–oxide–semiconductor field-effect transistors. Journal of Applied Physics, 1997, 82, 4621-4628.	2.5	15
52	Compact readout system for chipless passive LC tags and its application for humidity monitoring. Sensors and Actuators A: Physical, 2018, 280, 287-294.	4.1	15
53	Open Air Calibration with Temperature Compensation of a Luminescence Quenching-Based Oxygen Sensor for Portable Instrumentation. Analytical Chemistry, 2007, 79, 3173-3179.	6.5	14
54	Comparative study of MOSFET response to photon and electron beams in reference conditions. Sensors and Actuators A: Physical, 2015, 225, 95-102.	4.1	14

#	Article	IF	CITATIONS
55	Flexible passive tag based on light energy harvesting for gas threshold determination in sealed environments. Sensors and Actuators B: Chemical, 2016, 236, 226-232.	7.8	14
56	Readout Circuit With Improved Sensitivity for Contactless LC Sensing Tags. IEEE Sensors Journal, 2020, 20, 885-891.	4.7	14
57	Contribution of injection in current noise due to generation and recombination of carriers in p–n junctions. Journal of Applied Physics, 2001, 90, 3998-4006.	2.5	13
58	Portable system for photodiode-based electrochemiluminescence measurement with improved limit of detection. Sensors and Actuators B: Chemical, 2015, 221, 956-961.	7.8	13
59	Dose verification system based on MOS transistor for real-time measurement. Sensors and Actuators A: Physical, 2016, 247, 269-276.	4.1	13
60	A compact dosimetric system for MOSFETs based on passive NFC tag and smartphone. Sensors and Actuators A: Physical, 2017, 267, 82-89.	4.1	13
61	Asymmetric enhanced surface interdigitated electrode capacitor with two out-of-plane electrodes. Sensors and Actuators B: Chemical, 2018, 254, 588-596.	7.8	13
62	Fast lifetime and amplitude determination in luminescence exponential decays. Sensors and Actuators B: Chemical, 2015, 216, 595-602.	7.8	12
63	Light-Dependent Resistors as Dosimetric Sensors in Radiotherapy. Sensors, 2020, 20, 1568.	3.8	12
64	Portable light-emitting diode-based photometer with one-shot optochemical sensors for measurement in the field. Review of Scientific Instruments, 2008, 79, 103105.	1.3	11
65	A Compact Optical Instrument with Artificial Neural Network for pH Determination. Sensors, 2012, 12, 6746-6763.	3.8	11
66	Smartphone-Based Diagnosis of Parasitic Infections With Colorimetric Assays in Centrifuge Tubes. IEEE Access, 2019, 7, 185677-185686.	4.2	11
67	Digital and Analog Reconfiguration Techniques for Rapid Smart Sensor System Prototyping. Sensor Letters, 2009, 7, 1113-1118.	0.4	11
68	Accuracy Improvement of MOSFET Dosimeters in Case of Variation in Thermal Parameters. IEEE Transactions on Nuclear Science, 2015, 62, 487-493.	2.0	10
69	Accurate determination of majority thermal-capture cross sections of deep impurities inp-njunctions. Journal of Applied Physics, 1993, 74, 2605-2612.	2.5	9
70	Influence of the doping profile and deep level trap characteristics on generation-recombination noise. Journal of Applied Physics, 1997, 82, 3351-3357.	2.5	9
71	Random telegraph signal amplitude in submicron n-channel metal oxide semiconductor field effect transistors. Applied Physics Letters, 1997, 70, 2153-2155.	3.3	9
72	Modeling of retention time degradation due to inelastic trap-assisted tunneling in EEPROM devices. Microelectronics Reliability, 2003, 43, 1495-1500.	1.7	9

#	Article	IF	CITATIONS
73	Multisensor probe for soil monitoring. Sensors and Actuators B: Chemical, 2011, 160, 52-58.	7.8	9
74	Monte Carlo study of the statistics of electron capture by shallow donors in silicon at low temperatures. Physical Review B, 1995, 51, 14147-14151.	3.2	8
75	Passive UHF RFID tag for spectral fingerprint measurement. , 2015, , .		8
76	Generation-recombination noise in highly asymmetrical p–n junctions. Journal of Applied Physics, 2002, 92, 320-329.	2.5	7
77	Validation of Instrumented Insoles for Measuring Height in Vertical Jump. International Journal of Sports Medicine, 2016, 37, 374-381.	1.7	7
78	Thermal compensation technique using the parasitic diode for DMOS transistors. Sensors and Actuators A: Physical, 2016, 249, 249-255.	4.1	6
79	Plantar Pressure Changes and Their Relationships with Low Back Pain during Pregnancy Using Instrumented Insoles. Journal of Sensors, 2019, 2019, 1-10.	1.1	6
80	The effect of bending on laser-cut electro-textile inductors and capacitors attached on denim as wearable structures. Textile Reseach Journal, 2020, 90, 2355-2366.	2.2	6
81	Development and Evaluation of a Low-Drift Inertial Sensor-Based System for Analysis of Alpine Skiing Performance. Sensors, 2021, 21, 2480.	3.8	6
82	Influence of the position of deep levels on generationâ€recombination noise. Applied Physics Letters, 1995, 67, 3581-3583.	3.3	5
83	Influence of technological parameters on the behavior of the hole effective mass in SiGe structures. Journal of Applied Physics, 2000, 88, 1978-1982.	2.5	5
84	Study of the subthreshold swing of a pMOSFET as a dosimetric parameter. Sensors and Actuators A: Physical, 2012, 187, 16-21.	4.1	4
85	A simplified thermal model for lateral MOSFET and its application to temperature monitoring. Semiconductor Science and Technology, 2014, 29, 095017.	2.0	4
86	A simple model for analysing the effects of band non-parabolicity in nanostructures. Semiconductor Science and Technology, 2005, 20, 532-539.	2.0	3
87	Cantilever Fabrication by a Printing and Bonding Process. Journal of Microelectromechanical Systems, 2015, 24, 880-886.	2.5	3
88	Computer Vision-Based Portable System for Nitroaromatics Discrimination. Journal of Sensors, 2016, 2016, 1-10.	1.1	3
89	Hybrid printed device for simultaneous vapours sensing. IEEE Sensors Journal, 2016, , 1-1.	4.7	3
90	Development of a printed sensor for volatile organic compound detection at μg/L-level. Sensors and Actuators B: Chemical, 2016, 230, 115-122.	7.8	3

#	Article	IF	CITATIONS
91	Commercial photodiodes and phototransistors as dosimeters of photon beams for radiotherapy. Medical Physics, 2021, 48, 5440-5447.	3.0	3
92	Comprehensive Monte Carlo simulation of the nonradiative carrier capture process by impurities in semiconductors. Journal of Applied Physics, 1995, 77, 1998-2005.	2.5	2
93	Modeling of radiation effects in MOSFETs. , 2013, , .		2
94	Comparative study of printed capacitive sensors. , 2015, , .		2
95	Radiation sensitive MOSFETs irradiated with various positive gate biases. Journal of Radiation Research and Applied Sciences, 2021, 14, 353-357.	1.2	2
96	Digital Optical Ballistocardiographic System for Activity, Heart Rate, and Breath Rate Determination during Sleep. Sensors, 2022, 22, 4112.	3.8	2
97	Monte Carlo simulation of multiphonon capture mechanism by deep neutral impurities in Si in the presence of an electric field. Journal of Applied Physics, 1995, 78, 5448-5453.	2.5	1
98	Optimum design in a JFET for minimum generation–recombination noise. Microelectronics Reliability, 2000, 40, 1965-1968.	1.7	1
99	A preliminary study of the relation between back-pain and plantar-pressure evolution during pregnancy. , 2015, 2015, 1235-8.		1
100	Parametrized ECT processing over FPGA for a reconfigurable application. , 2015, , .		1
101	Acute Effects of Muscular Fatigue on Vertical Jump Performance in Acrobatic Gymnasts, Evaluated by Instrumented Insoles: A Pilot Study. Journal of Sensors, 2021, 2021, 1-6.	1.1	1
102	Commercial P-Channel Power VDMOSFET as X-ray Dosimeter. Electronics (Switzerland), 2022, 11, 918.	3.1	1
103	A design concept for radiation hardened RADFET readout system for space applications. Microprocessors and Microsystems, 2022, 90, 104486.	2.8	1
104	Subthreshold response of a MOSFET to radiation effects. , 2013, , .		0
105	RADFET response to photon and electron beams. , 2015, , .		0
106	Coupling Sensing and Imaging Devices: Towards a Complete Handheld Analytical System. Proceedings (mdpi), 2017, 1, 854.	0.2	0