

# David Izquierdo

## List of Publications by Year in descending order

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41  
papers

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citations

933447

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h-index

888059

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g-index

41  
all docs

41  
docs citations

41  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Expanded $\hat{1}$ -OTDR Based on Binary Sequences. IEEE Photonics Technology Letters, 2022, 34, 695-698.	2.5	6
2	Photoplethysmographic Waveform and Pulse Rate Variability Analysis in Hyperbaric Environments. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1550-1560.	6.3	7
3	Flexible resource provisioning of polarization independent coherent PONs based on non-orthogonal multiple access and multiCAP modulation. Journal of Optical Communications and Networking, 2021, 13, 140.	4.8	4
4	Analysis of the Colorless Operation of a Calibrated 120 $\hat{A}$ Coherent Receiver. Journal of Lightwave Technology, 2021, 39, 5405-5411.	4.6	1
5	50 Gb/s Transmission using OSSB-MultiCAP Modulation and a Polarization Independent Coherent Receiver For Next-Generation Passive Optical Access Networks. Journal of Lightwave Technology, 2021, 39, 5722-5729.	4.6	4
6	Roadmap for Next Generation Optical Networks Based on Quasi-Coherent Receivers. , 2020, , .		1
7	Photoplethysmographic Waveform in Hyperbaric Environment*. , 2019, 2019, 3490-3493.		1
8	Advanced Technologies for Coherent Access Networks. , 2019, , .		3
9	Autonomic Nervous System Measurement in Hyperbaric Environments Using ECG and PPG Signals. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 132-142.	6.3	26
10	Nonorthogonal Multiple Access and Carrierless Amplitude Phase Modulation for Flexible Multiuser Provisioning in 5G Mobile Networks. Journal of Lightwave Technology, 2017, 35, 5456-5463.	4.6	32
11	Transparent service delivery in elastic metro/access networks with cost-effective programmable transceivers. , 2017, , .		1
12	Cost-Effective DWDM ROADM Design for Flexible Sustainable Optical Metro $\hat{A}$ Access Networks. Journal of Optical Communications and Networking, 2017, 9, 1116.	4.8	22
13	Non-Orthogonal Multiple Access and Carrierless Amplitude Phase Modulation for 5G Mobile Networks. , 2017, , .		2
14	Chirp-based direct phase modulation of VCSELs for cost-effective transceivers. Optics Letters, 2017, 42, 583.	3.3	18
15	1.25-2.5Gbps Cost-Effective Transceiver Based on Directly Phase Modulated VCSEL for Flexible Access Networks. , 2017, , .		6
16	A Novel Portable Device to Measure Transmittance and Reflectance of Parabolic Trough Receiver Tubes in the Field. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	3
17	Low cost and compact analytical microsystem for carbon dioxide determination in production processes of wine and beer. Analytica Chimica Acta, 2016, 931, 64-69.	5.4	17
18	1Gbps full-duplex links for ultra-dense-WDM 625GHz frequency slots in optical metro-access networks. Optics Express, 2016, 24, 555.	3.4	14

#	ARTICLE	IF	CITATIONS
19	SDN-enabled flexible optical node designs and transceivers for sustainable metro-access networks convergence. , 2016, , .		6
20	Design of flexible udWDM Metro-Access Network Devices assisted by High Resolution Complex Spectroscopy. , 2016, , .		1
21	Portable Solar Spectrum Reflectometer for planar and parabolic mirrors in solar thermal energy plants. Solar Energy, 2016, 135, 446-454.	6.1	3
22	Cost-Effective Transceiver Based on an RSOA and a VCSEL for Flexible uDWDM Networks. IEEE Photonics Technology Letters, 2016, 28, 1111-1114.	2.5	11
23	Experimental demonstration of flex-grid udWDM with 6.25GHz full-duplex frequency slots for Metro/Access & Data Centers. , 2015, , .		0
24	Versatile Lock and Key Assembly for Optical Measurements with Microfluidic Platforms and Cartridges. Analytical Chemistry, 2015, 87, 1503-1508.	6.5	9
25	Survey of Faster-Than-Nyquist for Flexible Passive Optical Networks. , 2015, , .		3
26	A Novel Portable Device to Measure Transmittance and Reflectance of Parabolic Trough Receiver Tubes in the Field. , 2014, , .		3
27	Nanosecond fluorescence lifetime low-cost sensor. , 2014, , .		0
28	Optical microfluidic system based on ionophore modified gold nanoparticles for the continuous monitoring of mercuric ion. Sensors and Actuators B: Chemical, 2014, 194, 19-26.	7.8	26
29	Integrated Multi-Bit All-Optical NOR Gate for High Speed Data Processing. Journal of Lightwave Technology, 2013, 31, 1178-1184.	4.6	6
30	Integrated all-optical 4-input NOR logic gate based on InP technology. , 2012, , .		0
31	A ceramic microreactor for the synthesis of water soluble CdS and CdS/ZnS nanocrystals with on-line optical characterization. Nanoscale, 2012, 4, 1328.	5.6	34
32	Programmable all-optical logic gates based on semiconductor optical amplifiers. , 2011, , .		6
33	Four-input NOR gate using cross gain modulation in a single Semiconductor Optical Amplifier. , 2010, , .		3
34	Silicon nanocrystals light-emitting devices: characterization and coupling to SU-8 waveguides. Proceedings of SPIE, 2010, , .	0.8	1
35	Multiple-bit all-optical logic based on cross-gain modulation in a semiconductor optical amplifier. , 2010, , .		6
36	Simple dip-probe fluorescence setup sensor for in situ environmental determinations. Sensors and Actuators B: Chemical, 2009, 137, 420-425.	7.8	14

#	ARTICLE	IF	CITATIONS
37	Silicon-based rectangular hollow integrated waveguides. Optics Communications, 2008, 281, 1568-1575.	2.1	5
38	Hollow waveguides ray-tracing analysis. , 2008, , .		1
39	Dual-wavelength measurement system for absorbance chemical sensing. Measurement Science and Technology, 2007, 18, 3443-3450.	2.6	6
40	An Optochemical Humidity Sensor Based on Immobilized Nile Red in Y Zeolite. Industrial & Engineering Chemistry Research, 2007, 46, 2335-2341.	3.7	15
41	Dual Wavelength Integrated Optical System for Chemical Ion-Selective Sensing. , 2006, , .		0