

Ioannis Tomkos

List of Publications by Year in descending order

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465
papers

7,664
citations

94433

37
h-index

82547

72
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472
all docs

472
docs citations

472
times ranked

4125
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Graph Learning for QoT Estimation of Unseen Optical Sub-Network States: Capturing the Crosstalk Impact on the In-Service Lightpaths. Journal of Lightwave Technology, 2022, 40, 921-934.	4.6	4
2	Toward SDM-Based Submarine Optical Networks: A Review of Their Evolution and Upcoming Trends. Telecom, 2022, 3, 234-280.	2.6	7
3	Optimized Joint Allocation of Radio, Optical, and MEC Resources for the 5G and Beyond Fronthaul. IEEE Transactions on Network and Service Management, 2021, 18, 4639-4653.	4.9	18
4	Accurate Power-Efficient Format-Scalable Multi-Parallel Optical Digital-to-Analogue Conversion. Photonics, 2021, 8, 38.	2.0	6
5	â€œPerfectâ€™ PAM4 Serial Digital-Optical Conversion. IEEE Photonics Technology Letters, 2021, 33, 475-478.	2.5	4
6	Optimization algorithms for the proactive configuration of elastic optical networks under jamming attacks and demand uncertainty. Optical Switching and Networking, 2021, 41, 100618.	2.0	2
7	High-Power Jamming Attack Mitigation Techniques in Spectrally-Spatially Flexible Optical Networks. IEEE Access, 2021, 9, 28558-28572.	4.2	5
8	Joint Spatial and Spectral Resource Optimization over Both Wireless and Optical Fronthaul Domains of 5G Architectures. , 2020, , .		5
9	5G/NGPON Evolution and Convergence: Developing on Spatial Multiplexing of Optical Fiber Links for 5G Infrastructures. Fiber and Integrated Optics, 2020, 39, 4-23.	2.5	12
10	Decentralizing machine-learning-based QoT estimation for sliceable optical networks. Journal of Optical Communications and Networking, 2020, 12, 146.	4.8	12
11	Toward the 6G Network Era: Opportunities and Challenges. IT Professional, 2020, 22, 34-38.	1.5	143
12	Low-Cost/Power Coherent Transceivers for Intra-Datcenter Interconnections and 5G Fronthaul Links. , 2019, , .		4
13	Attack-aware Lightpath Provisioning in Elastic Optical Networks with Traffic Demand Variations. , 2019, , .		1
14	Centralized and Distributed Machine Learning-Based QoT Estimation for Sliceable Optical Networks. , 2019, , .		12
15	5G/NGPON Evolution and Convergence: The Approach of 5G PPP EU Project blueSPACE. , 2019, , .		2
16	Machine Learning for QoT Estimation of Unseen Optical Network States. , 2019, , .		23
17	Coherent optical WDM systems for 1.6â€™Tb/s Ethernet over 40â€™km of single-mode fiber. Optical Fiber Technology, 2018, 43, 180-187.	2.7	3
18	Free Space Intra-Datcenter Interconnects Based on 2D Optical Beam Steering Enabled by Photonic Integrated Circuits. Photonics, 2018, 5, 21.	2.0	22

#	ARTICLE	IF	CITATIONS
19	Supervised Machine Learning Techniques for Quality of Transmission Assessment in Optical Networks. , 2018, , .		11
20	Connection Provisioning in Spectrally-Spatially Flexible Optical Networks with Physical Layer Considerations. , 2018, , .		4
21	Spectrally and Spatially Flexible Optical Networks: Recent Developments and Findings. , 2018, , .		2
22	Cost and Power Consumption Comparison of 400 Gbps Intra-Datacenter Transceiver Modules. , 2018, , .		2
23	Welcome note. , 2018, , .		0
24	Physical Layer-Aware Routing, Spectrum, and Core Allocation in Spectrally-Spatially Flexible Optical Networks with Multicore Fibers. , 2018, , .		21
25	Physical-Layer-Aware Performance Evaluation of SDM Networks Based on SMF Bundles, MCFs, and FMFs. Journal of Optical Communications and Networking, 2018, 10, 712.	4.8	29
26	Survey of Photonic and Plasmonic Interconnect Technologies for Intra-Datacenter and High-Performance Computing Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2758-2783.	39.4	90
27	Guest Editorial: Optical Networks Supporting Interoperability and White Boxes. Journal of Lightwave Technology, 2018, 36, 3058-3061.	4.6	2
28	Techno-Economic Evaluations of 400G Optical Interconnect Implementations for Datacenter Networks. , 2018, , .		6
29	Application aware multilayer control and optimization of elastic WDM switched optical networks. , 2018, , .		8
30	Free Space Intra-Datacenter Interconnection Utilizing 2D Optical Beam Steering. , 2018, , .		1
31	Technologies for the Implementation of Spectrally-Spatially Flexible Optical Networks (SS-FONs). , 2018, , .		0
32	First WDM-SDM Optical Network with Spatial Sub-Group Routing ROADMs Supporting Spatial Lane Changes. , 2018, , .		0
33	Survey of Photonic Switching Architectures and Technologies in Support of Spatially and Spectrally Flexible Optical Networking [Invited]. Journal of Optical Communications and Networking, 2017, 9, 1.	4.8	183
34	On the Benefits of Multilayer Optimization and Application Awareness. Journal of Lightwave Technology, 2017, 35, 1274-1279.	4.6	15
35	Impact of Spatial and Spectral Granularity on the Performance of SDM Networks Based on Spatial Superchannel Switching. Journal of Lightwave Technology, 2017, 35, 2559-2568.	4.6	42
36	Improving Performance of Spatially Joint-Switched Space Division Multiplexing Optical Networks via Spatial Group Sharing. Journal of Optical Communications and Networking, 2017, 9, B1.	4.8	21

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37	New frontiers in optical communication networking. , 2017, , .		2
38	Benefits of multi-layer application-aware resource allocation and optimization. , 2017, , .		6
39	On the Performance Improvement and Cost Effectiveness Resulting from the Placement of Novel Architectures of Interconnected Transponders in Elastic Optical Networks. , 2017, , .		0
40	Application-Centric Dynamic Multi-layer Resource Allocation in Availability-aware SDN-Orchestrated Networks. , 2017, , .		1
41	Cascaded all-optical sub-channel add/drop multiplexing from a 1-Tb/s MB-OFDM or N-WDM super-channel with ultra-low guard-bands. , 2017, , .		1
42	On the benefits of FMF based data center interconnection utilizing MIMO-less PAM-M transceivers. , 2017, , .		0
43	Multidimensional optical access networks with spectral-spatial interworking. , 2017, , .		0
44	Designing the next generation of intra-and inter-datacentres interconnects. , 2017, , .		0
45	Multi-format 800 – 1600 Gb/s coherent transceiver for inter-data centre interconnects over SMF. , 2017, , .		0
46	Network primitives based on latency and recovery time in orchestrated multi-layer networks. , 2017, , .		0
47	On the Power Consumption of MIMO Processing and its Impact on the Performance of SDM Networks. , 2017, , .		14
48	Comparison of CD(C) ROADM Architectures for Space Division Multiplexed Networks. , 2017, , .		13
49	Cascaded All-Optical Sub-Channel Add/Drop Multiplexing from a 1-Tb/s MB-OFDM or N-WDM Super-Channel with Ultra-Low Guard-Bands. , 2017, , .		1
50	A Framework for Dynamic Multi-layer Resource Allocation and Optimization in Application-Centric Networking. , 2017, , .		6
51	Investigation of Mid-term Network Migration Scenarios Comparing Multi-Band and Multi-Fiber Deployments. , 2016, , .		11
52	The Role of SDN in Application Centric IP and Optical Networks. Journal of Green Engineering (discontinued), 2016, 6, 317-336.	0.7	0
53	Introduction to the Special Issue on Optical Networking for 5G Mobile and Wireless Communications. Journal of Optical Communications and Networking, 2016, 8, FGM1.	4.8	6
54	Benefit Evaluation of All-Optical Subchannel Add&Drop in Flexible Optical Networks. IEEE Photonics Journal, 2016, 8, 1-9.	2.0	6

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55	Comparison of Spectral and Spatial Super-Channel Allocation Schemes for SDM Networks. Journal of Lightwave Technology, 2016, 34, 2710-2716.	4.6	124
56	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
57	The role of SDN in application centric IP and optical networks. , 2016, , .		5
58	Comparison of linear and nonlinear equalization for ultra-high capacity spectral superchannels. , 2016, , .		0
59	Options for cost-effective capacity upgrades in backbone optical networks. , 2016, , .		4
60	Flexible Optical Cross-Connects for High Bit Rate Elastic Photonic Transport Networks [Invited]. Journal of Optical Communications and Networking, 2016, 8, A126.	4.8	15
61	Evaluation of the impact of spatial and spectral granularities on the performance of spatial superchannel switching schemes. , 2016, , .		5
62	Hitless wavelength assignment in filterless optical access networks. , 2016, , .		2
63	A survey of multi-layer network optimization. , 2016, , .		10
64	Spatial group sharing for SDM optical networks with Joint Switching. , 2016, , .		7
65	A Survey on FEC Codes for 100 G and Beyond Optical Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 209-221.	39.4	103
66	Technologies for Cost-Effective udWDM-PONs. Journal of Lightwave Technology, 2016, 34, 783-791.	4.6	61
67	Evaluation of the Impact of Different SDM Switching Strategies in a Network Planning Scenario. , 2016, , .		26
68	Hitless Dynamic Wavelength Allocation in Coherent WDM-PONs. , 2016, , .		2
69	Fibre Nonlinearity Limitations of 1 Tbps (10x100 Gbps) Multi-Band e-OFDM Super-Channel. , 2016, , .		0
70	Spectrally-Spatially Flexible Optical Networking. , 2016, , .		5
71	Evaluating the Optimum Filter Resolution and Sub-Channel Spectrum Granularity for Flexible Super-Channels. , 2015, , .		9
72	Spectral vs. spatial super-channel allocation in SDM networks under independent and joint switching paradigms. , 2015, , .		9

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73	Impairment-aware resource allocation over flexi-grid network with all-optical add/drop capability. , 2015, , .		4
74	Tutorial on "Switching and routing for spatially and spectrally flexible elastic optical networking", 2015, , .		0
75	Guest editorial: Spatially and spectrally flexible elastic optical networking. , 2015, 53, 20-22.		8
76	Cognitive Optical Network Testbed: EU Project CHRON [Invited]. Journal of Optical Communications and Networking, 2015, 7, A344.	4.8	20
77	All-optical vs. electrical aggregations CAPEX comparisons in a fully-flexible multi-layer transport network. , 2015, , .		5
78	Cost and power consumption model for flexible super-channel transmission with all-optical sub-channel add/drop capability. , 2015, , .		6
79	Technoeconomic analysis of PANDA FTTC architecture: Cost comparison to metro ethernet and TWDM NGPON-2 architectures. , 2015, , .		0
80	Techno-economic analysis of flexi-grid networks with all-optical add/drop capability. , 2015, , .		1
81	Experimental Demonstration of a Statistical OFDM-PON With Multiband ONUs and Elastic Bandwidth Allocation [Invited]. Journal of Optical Communications and Networking, 2015, 7, A73.	4.8	34
82	Impact of IP Layer Routing Policy on Multilayer Design [Invited]. Journal of Optical Communications and Networking, 2015, 7, A396.	4.8	9
83	Numerical investigation of all-optical add-drop multiplexing for spectrally overlapping OFDM signals. Optics Express, 2015, 23, 5888.	3.4	7
84	COCONUT cost, power consumption and migration analysis: A route towards NG-PON3. , 2015, , .		6
85	A roadmap on optical interconnects in data centre networks. , 2015, , .		15
86	Investigation of Spectrum Granularity for Performance Optimization of Flexible Nyquist-WDM-Based Optical Networks. Journal of Lightwave Technology, 2015, 33, 4767-4774.	4.6	21
87	Impact of filter sharpness on the performance of elastic optical networks. , 2015, , .		6
88	Opportunities and challenges in the network planning of spatially and spectrally elastic optical networks. , 2015, , .		2
89	Optical networking solutions and technologies in the big data era. , 2015, , .		4
90	Evaluating the performance of ultra-fine spectrum granularity flexible optical networks. , 2015, , .		1

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91	Plasmonic devices for communications. , 2015, , .		7
92	Coverage capabilities of a multi-wavelength passive optical network architecture. , 2014, , .		0
93	A novel architecture for all-optical add-drop multiplexing of OFDM signals. , 2014, , .		12
94	Advanced Modulation Formats in Cognitive Optical Networks: EU project CHRON Demonstration. , 2014, , .		4
95	A Low-Latency Algorithm and FPGA Design for the Min-Search of LDPC Decoders. , 2014, , .		6
96	Optical interconnection networks for data centers. , 2014, , .		1
97	Impact of IP Layer Routing Policy on Multi-Layer Design. , 2014, , .		3
98	Reconfigurable FEC codes for software-defined optical transceivers. , 2014, , .		1
99	Filtering effects of cascaded flex-grid roadms with high spectral resolution filters on the transmission of Nyquist and quasi-Nyquist WDM super-channels. , 2014, , .		3
100	Monolithic GaAs Electro-Optic IQ Modulator Demonstrated at 150 Gbit/s With 64QAM. Journal of Lightwave Technology, 2014, 32, 760-765.	4.6	26
101	Cognitive, Heterogeneous and Reconfigurable Optical Networks: The CHRON Project. Journal of Lightwave Technology, 2014, 32, 2308-2323.	4.6	19
102	Control and management requirements for a coherent ultra-dense WDM PON for lambda to the user access networks. , 2014, , .		6
103	A techno-economic evaluation of different strategies for front-/back-hauling of mobile traffic: Wireless versus fiber based solutions. , 2014, , .		2
104	Impact of optical flexibility and sub-band switching on multi-layer transport network architectures. , 2014, , .		2
105	Photon plasmon coupling in nanocomposite plasmonic waveguides. , 2014, , .		1
106	Flexible FEC codes for next-generation software-defined optical transceivers. , 2014, , .		1
107	Enabling transparent technologies for the development of highly granular flexible optical cross-connects. , 2014, , .		10
108	Demonstration and field trial of a resilient hybrid NG-PON test-bed. Optical Fiber Technology, 2014, 20, 537-546.	2.7	8

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109	Dynamic Bandwidth Allocation in Heterogeneous OFDMA-PONs Featuring Intelligent LTE-A Traffic Queuing. <i>Journal of Lightwave Technology</i> , 2014, 32, 1877-1885.	4.6	13
110	Dynamic Cooperative Spectrum Sharing and Defragmentation for Elastic Optical Networks. <i>Journal of Optical Communications and Networking</i> , 2014, 6, 259.	4.8	19
111	A tutorial on the flexible optical networking paradigm: State of the art, trends, and research challenges. <i>Proceedings of the IEEE</i> , 2014, 102, 1317-1337.	21.3	198
112	Unamplified 10-km transmission using direct-detection optical OFDM superchannel at 100 Gbps. , 2014, ,		3
113	Experimental Demonstration of a Cognitive Optical Network for Reduction of Restoration Time. , 2014, ,		0
114	A Techno-Economic Study on the Outside Plant Cost of Current and Next-Generation Fiber-to-the-X Deployments. <i>Fiber and Integrated Optics</i> , 2013, 32, 12-27.	2.5	0
115	Costs of Fiber-to-the-Home Passive Optical Network Unbundling. <i>Fiber and Integrated Optics</i> , 2013, 32, 28-41.	2.5	2
116	Nyquist-WDM-Based Flexible Optical Networks: Exploring Physical Layer Design Parameters. <i>Journal of Lightwave Technology</i> , 2013, 31, 2332-2339.	4.6	79
117	Dynamic Software-Defined Resource Optimization in Next-Generation Optical Access Enabled by OFDMA-Based Meta-MAC Provisioning. <i>Journal of Lightwave Technology</i> , 2013, 31, 2296-2306.	4.6	29
118	Flexible RF-Based Comb Generator. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 701-704.	2.5	58
119	Design and Evaluation of a Flexible-Bandwidth OFDM-Based Intra-Data Center Interconnect. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 3700310-3700310.	2.9	50
120	Time-Varying Spectrum Allocation Policies and Blocking Analysis in Flexible Optical Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2013, 31, 13-25.	14.0	63
121	Cognitive Dynamic Optical Networks [Invited]. <i>Journal of Optical Communications and Networking</i> , 2013, 5, A107.	4.8	45
122	Power consumption evaluation of all-optical data center networks. <i>Cluster Computing</i> , 2013, 16, 611-623.	5.0	42
123	Reductions of peak-to-average power ratio and optical beat interference in cost-effective OFDMA-PONs. <i>Photonic Network Communications</i> , 2013, 26, 44-52.	2.7	6
124	Experimental evaluation and improvement methods for low cost transmitters in long reach PONs. <i>Optical Fiber Technology</i> , 2013, 19, 533-538.	2.7	0
125	A Cognitive Quality of Transmission Estimator for Core Optical Networks. <i>Journal of Lightwave Technology</i> , 2013, 31, 942-951.	4.6	61
126	Optical interconnection networks in data centers: recent trends and future challenges. , 2013, 51, 39-45.		172

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127	Monte-Carlo-based method for group delay ripple reduction in cascaded dispersion compensation FBGs. , 2013, , .		1
128	Automatic implementation of low-complexity QC-LDPC encoders. , 2013, , .		1
129	Virtual Topology Design and reconfiguration using cognition: Performance evaluation in case of failure. , 2013, , .		4
130	Dynamic Impairment-Aware Routing and Wavelength Assignment. Optical Networks Series, 2013, , 31-51.	1.1	3
131	Future Outlook. , 2013, , 301-314.		3
132	Plasmonic Communications: Light on a Wire. Optics and Photonics News, 2013, 24, 28.	0.5	98
133	Guest Editorial Next-Generation Spectrum-Efficient and Elastic Optical Transport Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 1-3.	14.0	5
134	First Monolithic GaAs IQ Electro-optic Modulator, Demonstrated at 150 Gbit/s with 64-QAM. , 2013, , .		4
135	Colorless FDMA-PON With Flexible Bandwidth Allocation and Colorless, Low-Speed ONUs [Invited]. Journal of Optical Communications and Networking, 2013, 5, A204.	4.8	17
136	Nonlinear Nano-Photonics. , 2013, , .		0
137	Spatial-spectral flexible optical networking: enabling switching solutions for a simplified and efficient SDM network platform. , 2013, , .		0
138	Results from the EU project ACCORDANCE on converged OFDMA-PON networks. , 2013, , .		6
139	On the cost efficiency of flexible optical networking compared to conventional SLR/MLR WDM networks. , 2013, , .		1
140	Towards ultra-dense wavelength-to-the-user: The approach of the COCONUT project. , 2013, , .		38
141	Cost-effective Broadband GaAs IQ Modulator Array for Long-Reach OFDM-PONs. , 2013, , .		0
142	A low-complexity implementation of QC-LDPC encoder in reconfigurable logic. , 2013, , .		9
143	All-optical implementation of OFDM/NWDM Tx/Rx. , 2013, , .		1
144	Light coupling from active polymer layers to hybrid dielectric-plasmonic waveguides. , 2013, , .		1

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145	Automatic implementation of low-complexity QC-LDPC encoders. , 2013, , .		1
146	Evaluation on a 60 GHz radio over fiber system employing photonic up conversion and optically beam formed linear array antenna for broadband indoor access. , 2013, , .		0
147	Techno-economic advantages of cognitive virtual topology design. , 2013, , .		0
148	Energy-Efficient OFDMA-PON Exploiting Modular OLT/ONU Digital Signal Processing. , 2013, , .		3
149	PANDA. , 2013, , .		4
150	Dynamic Cooperative Spectrum Sharing in Elastic Networks. , 2013, , .		18
151	Investigation on a low-cost single wavelength converged wired-60 GHz wireless OFDM-based system employing a photonic patch antenna. , 2013, , .		1
152	Fabrication of the First High-speed GaAs IQ Electro-optic Modulator Arrays and Applicability Study for Low-Cost Tb/s Direct-Detection Optical OFDM Networks. , 2013, , .		3
153	First Monolithic GaAs IQ Electro-optic Modulator, Demonstrated at 150 Gbit/s with 64-QAM. , 2013, , .		1
154	Flexible QoS Differentiation in Converged OFDMA-PON and LTE Networks. , 2013, , .		8
155	Cognitive Dynamic Optical Networks. , 2013, , .		3
156	The Rise of Flexible Optical Networking. , 2013, , .		0
157	Flexible WDM-PON with Nyquist-FDM and 31.25 Gbit/s per Wavelength Channel Using Colorless, Low-Speed ONUs. , 2013, , .		5
158	Optical OFDM-based Data Center Networks. Journal of Networks, 2013, 8, .	0.4	2
159	1G/10G-EPON Compliant Scheme Combining ONU Energy Efficiency with QoS Performance. , 2012, , .		1
160	Energy-efficient Bandwidth Allocation in optical OFDM-based Data Center Networks. , 2012, , .		12
161	Experimental Study on OSNR Requirements for Spectrum-Flexible Optical Networks [Invited]. Journal of Optical Communications and Networking, 2012, 4, B85.	4.8	9
162	Simple intradyne PSK system for udWDM-PON. Optics Express, 2012, 20, 28758.	3.4	15

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163	Extensive Comparisons of Optical Fast-OFDM and Conventional Optical OFDM for Local and Access Networks. Journal of Optical Communications and Networking, 2012, 4, 724.	4.8	27
164	A Cognitive System for Fast Quality of Transmission Estimation in Core Optical Networks. , 2012, , .		6
165	Survivable and impairment-aware virtual topologies for reconfigurable optical networks: A cognitive approach. , 2012, , .		6
166	Silicon-organic hybrid fabrication platform for integrated circuits. , 2012, , .		0
167	An OFDMA-PON with non-preselected independent ONU sources and centralized feedback wavelength control: Dimensioning and experimental results. , 2012, , .		2
168	Surface plasmon-polariton amplifiers. , 2012, , .		2
169	Extending impairment-aware control plane solutions toward cognitive optical networks. , 2012, , .		1
170	The rise of optical interconnects in data centre networks. , 2012, , .		4
171	Chip-to-chip plasmonic interconnects and the activities of EU project NAVOLCHI. , 2012, , .		2
172	A novel energy and delay efficient OFDMA “Meta-MAC” scheme for heterogeneous PON coexistence. , 2012, , .		3
173	Quantitative comparison of low-cost OFDMA-PON transceiver implementations. , 2012, , .		1
174	Demonstration of High-Speed MIMO OFDM Flexible Bandwidth Data Center Network. , 2012, , .		6
175	Network Performance Evaluation for Nyquist-WDM-Based Flexible Optical Networking. , 2012, , .		2
176	An OFDMA-based optical access network architecture exhibiting ultra-high capacity and wireline-wireless convergence. , 2012, 50, 71-78.		56
177	Benefits of implementing a dynamic impairment-aware optical network: results of EU Project DICONET. , 2012, 50, 79-88.		9
178	Physical-Layer-Aware MAC Schemes for Dynamic Subcarrier Assignment in OFDMA-PON Networks. Journal of Lightwave Technology, 2012, 30, 1915-1923.	4.6	35
179	Experimental Demonstration of a GMPLS-enabled Impairment-Aware Lightpath Restoration Scheme. Journal of Optical Communications and Networking, 2012, 4, 344.	4.8	9
180	A Message From the JLT Editor-in-Chief: â€œState of the Journalâ€. Journal of Lightwave Technology, 2012, 30, 2741-2742.	4.6	0

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181	Evolution of all-optical flip-flops and their applications in optical communications networks. IET Optoelectronics, 2012, 6, 263-276.	3.3	6
182	Energy efficient flexible-bandwidth OFDM-based data center network. , 2012, , .		1
183	Cognition to design energetically efficient and impairment aware virtual topologies for optical networks. , 2012, , .		5
184	Enhancing optical networks with cognition: Case-Based Reasoning to estimate the quality of transmission. , 2012, , .		2
185	Cognitive algorithm to solve the impairment-aware virtual topology design problem in reconfigurable optical networks. , 2012, , .		3
186	GPON unbundling for multioperator access. , 2012, , .		3
187	Quantifying Spectrum, Cost, and Energy Efficiency in Fixed-Grid and Flex-Grid Networks [Invited]. Journal of Optical Communications and Networking, 2012, 4, B42.	4.8	69
188	On the benefits of open access FTTH networks. , 2012, , .		0
189	A survey of recent developments on flexible/elastic optical networking. , 2012, , .		32
190	A Survey on Optical Interconnects for Data Centers. IEEE Communications Surveys and Tutorials, 2012, 14, 1021-1036.	39.4	480
191	Impairment-Aware Optical Networking: A Survey. Optical Networks Series, 2012, , 443-479.	1.1	10
192	A Comparative Study of Impairments Aware Optical Networks Planning Tools. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 483-490.	0.3	0
193	Optimized Monitor Placement for Accurate QoT Assessment in Core Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 15.	4.8	12
194	Next-generation optical access networks: Dynamic bandwidth allocation, resource use optimization, and QoS improvements [Guest Eeditorial]. IEEE Network, 2012, 26, 4-6.	6.9	19
195	Adaptive Loading Algorithms for IMDD Optical OFDM PON Systems Using Directly Modulated Lasers. Journal of Optical Communications and Networking, 2012, 4, 769.	4.8	91
196	Optimization of the knowledge base of a cognitive quality of transmission estimator for core optical networks. , 2012, , .		2
197	Energy efficient data center network based on a flexible bandwidth MIMO OFDM optical interconnect. , 2012, , .		4
198	A control plane framework for future cognitive heterogeneous optical networks. , 2012, , .		6

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199	Experimental Demonstration of Mixed Formats and Bit Rates Signal Allocation for Spectrum-flexible Optical Networking. , 2012, , .		2
200	Demonstration of a Remotely Dual-Pumped Long-Reach PON for Flexible Deployment. Journal of Lightwave Technology, 2012, 30, 953-961.	4.6	27
201	The Evolution of Optical Networking [Scanning the Issue]. Proceedings of the IEEE, 2012, 100, 1017-1022.	21.3	8
202	Progress in Multichannel All-Optical Regeneration Based on Fiber Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 689-700.	2.9	40
203	DICONET NPOT: An Impairments Aware Tool for Planning and Managing Dynamic Optical Networks. Journal of Network and Systems Management, 2012, 20, 116-133.	4.9	5
204	Next Generation Flexible and Cognitive Heterogeneous Optical Networks. Lecture Notes in Computer Science, 2012, , 225-236.	1.3	17
205	Performance Evaluation of Symmetrical 10 Gb/s WDM/TDM-PON with Respect to Different Downstream Signal Extinction Ratios. , 2012, , .		1
206	Experimental Demonstration of Cost-Effective Intensity-Modulation and Direct-Detection Optical Fast-OFDM over 40km SMF Transmission. , 2012, , .		11
207	Spectrum, Cost and Energy Efficiency in Fixed-Grid and Flex-Grid Networks. , 2012, , .		10
208	Simple Intradyne PSK System for udWDM-PON. , 2012, , .		8
209	Transmission performance of mixed line-rate and format DWDM traffic using a 10Å–10Gb/s photonic integrated transceiver array for low-cost metro networks. , 2012, , .		0
210	Cognitive Genetic Algorithms to Design Impairment-Aware Virtual Topologies in Optical Networks. , 2012, , .		0
211	Mitigation techniques for Peak-to-Average Power Ratio and Optical Beat Interference in OFDMA-PONs. , 2011, , .		3
212	MAC framework and algorithms for dynamic subcarrier assignment in OFDMA-PONs. , 2011, , .		0
213	Techno-economic comparison of next generation optical access network architectures. , 2011, , .		2
214	Agile photonic integrated systems-on-chip enabling WDM terabit networks. , 2011, , .		0
215	Techno-economics of resilient extended FTTH PONs. , 2011, , .		0
216	Advantages of using cognition when solving impairment-aware virtual topology design problems. , 2011, , .		4

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217	Techno-economic evaluation of NGA architectures: How much does it cost to deploy FTTx per household passed?. , 2011, , .		1
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