

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
g-index

472
all docs

472
docs citations

472
times ranked

4125
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic Bandwidth Allocation in Flexible OFDM-Based Optical Networks. Journal of Lightwave Technology, 2011, 29, 1354-1366.	4.6	737
2	A Survey on Optical Interconnects for Data Centers. IEEE Communications Surveys and Tutorials, 2012, 14, 1021-1036.	39.4	480
3	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
4	A survey on physical layer impairments aware routing and wavelength assignment algorithms in optical networks. Computer Networks, 2009, 53, 926-944.	5.1	222
5	A tutorial on the flexible optical networking paradigm: State of the art, trends, and research challenges. Proceedings of the IEEE, 2014, 102, 1317-1337.	21.3	198
6	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
7	Optical interconnection networks in data centers: recent trends and future challenges. , 2013, 51, 39-45.		172
8	Routing and Spectrum Allocation in OFDM-Based Optical Networks with Elastic Bandwidth Allocation. , 2010, , .		158
9	Failure location algorithm for transparent optical networks. IEEE Journal on Selected Areas in Communications, 2005, 23, 1508-1519.	14.0	145
10	Toward the 6G Network Era: Opportunities and Challenges. IT Professional, 2020, 22, 34-38.	1.5	143
11	Comparison of Spectral and Spatial Super-Channel Allocation Schemes for SDM Networks. Journal of Lightwave Technology, 2016, 34, 2710-2716.	4.6	124
12	A Survey on FEC Codes for 100 G and Beyond Optical Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 209-221.	39.4	103
13	Plasmonic Communications: Light on a Wire. Optics and Photonics News, 2013, 24, 28.	0.5	98
14	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
15	Performance engineering of metropolitan area optical networks through impairment constraint routing. , 2004, 42, S40-S47.		90
16	Experimental Demonstration of an Impairment Aware Network Planning and Operation Tool for Transparent/Translucent Optical Networks. Journal of Lightwave Technology, 2011, 29, 439-448.	4.6	90
17	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
18	Nyquist-WDM-Based Flexible Optical Networks: Exploring Physical Layer Design Parameters. Journal of Lightwave Technology, 2013, 31, 2332-2339.	4.6	79

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19	Investigation of 10-Gb/s RSOA-Based Upstream Transmission in WDM-PONs Utilizing Optical Filtering and Electronic Equalization. IEEE Photonics Technology Letters, 2008, 20, 2168-2170.	2.5	77
20	Dynamic Bandwidth Allocation in Flexible OFDM-based Networks. , 2011, , .		72
21	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
22	Improving the efficiency of online upstream scheduling and wavelength assignment in hybrid WDM/TDMA EPON networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 838-848.	14.0	66
23	Time-Varying Spectrum Allocation Policies and Blocking Analysis in Flexible Optical Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 13-25.	14.0	63
24	A Cognitive Quality of Transmission Estimator for Core Optical Networks. Journal of Lightwave Technology, 2013, 31, 942-951.	4.6	61
25	Technologies for Cost-Effective udWDM-PONs. Journal of Lightwave Technology, 2016, 34, 783-791.	4.6	61
26	Flexible RF-Based Comb Generator. IEEE Photonics Technology Letters, 2013, 25, 701-704.	2.5	58
27	Offline Impairment-Aware Routing and Wavelength Assignment Algorithms in Translucent WDM Optical Networks. Journal of Lightwave Technology, 2009, 27, 1866-1877.	4.6	56
28	A dynamic impairment-aware networking solution for transparent mesh optical networks. IEEE Communications Magazine, 2009, 47, 38-47.	6.1	56
29	An OFDMA-based optical access network architecture exhibiting ultra-high capacity and wireline-wireless convergence. , 2012, 50, 71-78.		56
30	10 Gb/s full-duplex bidirectional transmission with RSOA-based ONU using detuned optical filtering and decision feedback equalization. Optics Express, 2009, 17, 5008.	3.4	55
31	Extraction of laser rate equations parameters for representative simulations of metropolitan-area transmission systems and networks. Optics Communications, 2001, 194, 109-129.	2.1	53
32	Technological challenges on the road toward transparent networking. Journal of Optical Networking, 2008, 7, 321.	2.5	51
33	Scalable Extended Reach PON. , 2008, , .		50
34	Design and Evaluation of a Flexible-Bandwidth OFDM-Based Intra-Data Center Interconnect. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 3700310-3700310.	2.9	50
35	Spectrally/bitrate flexible optical network planning. , 2010, , .		49
36	10-Gb/s transmission of 1.55- μ m directly modulated signal over 100 km of negative dispersion fiber. IEEE Photonics Technology Letters, 2001, 13, 735-737.	2.5	47

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37	Cognitive Dynamic Optical Networks [Invited]. Journal of Optical Communications and Networking, 2013, 5, A107.	4.8	45
38	Effects of filter concatenation for directly modulated transmission lasers at 2.5 and 10 Gb/s. Journal of Lightwave Technology, 2002, 20, 218-228.	4.6	44
39	FEC in optical communications - A tutorial overview on the evolution of architectures and the future prospects of outband and inband FEC for optical communications. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2006, 22, 79-86.	0.4	44
40	Power consumption evaluation of all-optical data center networks. Cluster Computing, 2013, 16, 611-623.	5.0	42
41	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
42	Demonstration of negative dispersion fibers for DWDM metropolitan area networks. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 439-460.	2.9	41
43	Transparent ultra-long-haul DWDM networks with "broadcast-and-select" OADM/OXC architecture. Journal of Lightwave Technology, 2003, 21, 2661-2672.	4.6	40
44	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
45	Offline Impairment Aware RWA Algorithms for Cross-Layer Planning of Optical Networks. Journal of Lightwave Technology, 2009, 27, 1763-1775.	4.6	39
46	Towards ultra-dense wavelength-to-the-user: The approach of the COCONUT project. , 2013, , .		38
47	Performance engineering and topological design of metro WDM optical networks using computer simulation. IEEE Journal on Selected Areas in Communications, 2002, 20, 149-165.	14.0	37
48	Impairment Aware Based Routing and Wavelength Assignment in Transparent Long Haul Networks. , 2007, , 48-57.		35
49	Physical-Layer-Aware MAC Schemes for Dynamic Subcarrier Assignment in OFDMA-PON Networks. Journal of Lightwave Technology, 2012, 30, 1915-1923.	4.6	35
50	Lightpath Establishment Assisted by Offline QoT Estimation in Transparent Optical Networks. Journal of Optical Communications and Networking, 2010, 2, 928.	4.8	34
51	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
52	ACCORDANCE: A novel OFDMA-PON paradigm for ultra-high capacity converged wireline-wireless access networks. , 2010, , .		32
53	A survey of recent developments on flexible/elastic optical networking. , 2012, , .		32
54	Design Characteristics for a Full-Duplex IM/IM Bidirectional Transmission at 10 Gb/s Using Low Bandwidth RSOA. Journal of Lightwave Technology, 2010, 28, 1094-1101.	4.6	31

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55	Study of the performance of a transparent and reconfigurable metropolitan area network. Journal of Lightwave Technology, 2002, 20, 937-945.	4.6	30
56	All-Fiberized Dispersion-Managed Multichannel Regeneration at 43 Gb/s. IEEE Photonics Technology Letters, 2008, 20, 1854-1856.	2.5	30
57	Offset-Based Scheduling With Flexible Intervals for Evolving GPON Networks. Journal of Lightwave Technology, 2009, 27, 3259-3268.	4.6	30
58	Dynamic Software-Defined Resource Optimization in Next-Generation Optical Access Enabled by OFDMA-Based Meta-MAC Provisioning. Journal of Lightwave Technology, 2013, 31, 2296-2306.	4.6	29
59	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
60	Benefits of Q-factor based routing in WDM metro networks. , 2005, , v4:981.		28
61	Impairment Constraint Based Routing in Mesh Optical Networks. , 2007, , .		27
62	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
63	Demonstration of a Remotely Dual-Pumped Long-Reach PON for Flexible Deployment. Journal of Lightwave Technology, 2012, 30, 953-961.	4.6	27
64	Monolithic GaAs Electro-Optic IQ Modulator Demonstrated at 150 Gbit/s With 64QAM. Journal of Lightwave Technology, 2014, 32, 760-765.	4.6	26
65	Evaluation of the Impact of Different SDM Switching Strategies in a Network Planning Scenario. , 2016, , .		26
66	Broadband building blocks. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2004, 20, 32-37.	0.4	24
67	Performance of a reconfigurable wavelength converter based on dual-pump-wave mixing in a semiconductor optical amplifier. IEEE Photonics Technology Letters, 1998, 10, 1404-1406.	2.5	23
68	Optical add/drop multiplexers and optical cross-connects for wavelength routed networks. , 0, , .		23
69	Machine Learning for QoT Estimation of Unseen Optical Network States. , 2019, , .		23
70	Improved performance of a wavelength converter based on dual pump four-wave mixing in a bulk semiconductor optical amplifier. Applied Physics Letters, 1998, 72, 2499-2501.	3.3	22
71	Free Space Intra-Datacenter Interconnects Based on 2D Optical Beam Steering Enabled by Photonic Integrated Circuits. Photonics, 2018, 5, 21.	2.0	22
72	Photonics in switching: Architectures, systems and enabling technologies. Computer Networks, 2008, 52, 1873-1890.	5.1	21

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73	Photonics in switching: enabling technologies and subsystem design. Journal of Optical Networking, 2009, 8, 404.	2.5	21
74	Optical performance monitoring for translucent/transparent optical networks. IET Optoelectronics, 2011, 5, 1-18.	3.3	21
75	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
76	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
77	Physical Layer-Aware Routing, Spectrum, and Core Allocation in Spectrally-Spatially Flexible Optical Networks with Multicore Fibers. , 2018, , .		21
78	Study of polarization-insensitive wave mixing in bulk semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1998, 10, 352-354.	2.5	20
79	An OBS-based grid architecture. , 0, , .		20
80	Results from EU Project SARDANA on 10G extended reach WDM PONs. , 2010, , .		20
81	Cognitive Optical Network Testbed: EU Project CHRON [Invited]. Journal of Optical Communications and Networking, 2015, 7, A344.	4.8	20
82	A Novel Offline Physical Layer Impairments Aware RWA Algorithm With Dedicated Path Protection Consideration. Journal of Lightwave Technology, 2010, 28, 3029-3040.	4.6	19
83	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
84	Cognitive, Heterogeneous and Reconfigurable Optical Networks: The CHRON Project. Journal of Lightwave Technology, 2014, 32, 2308-2323.	4.6	19
85	Dynamic Cooperative Spectrum Sharing and Defragmentation for Elastic Optical Networks. Journal of Optical Communications and Networking, 2014, 6, 259.	4.8	19
86	A broadcast-and-select OADM optical network with dedicated optical-channel protection. Journal of Lightwave Technology, 2003, 21, 25-31.	4.6	18
87	Experimental and Theoretical Investigations of Intensity-Modulation and Direct-Detection Optical Fast-OFDM over MMF-links. IEEE Photonics Technology Letters, 2011, , .	2.5	18
88	Dynamic Cooperative Spectrum Sharing in Elastic Networks. , 2013, , .		18
89	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
90	Impairment-Constraint-Based Routing in Ultralong-Haul Optical Networks With 2R Regeneration. IEEE Photonics Technology Letters, 2007, 19, 420-422.	2.5	17

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91	Four-Channel All-Fiber Dispersion-Managed 2R Regenerator. IEEE Photonics Technology Letters, 2008, 20, 1169-1171.	2.5	17
92	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
93	Next Generation Flexible and Cognitive Heterogeneous Optical Networks. Lecture Notes in Computer Science, 2012, , 225-236.	1.3	17
94	"Broadcast and select" OADM in 80 x 10.7 Gb/s ultra-longhaul network. IEEE Photonics Technology Letters, 2003, 15, 332-334.	2.5	16
95	Cascadability Performance Evaluation of a New NRZ SOA-MZI Wavelength Converter. IEEE Photonics Technology Letters, 2009, 21, 1341-1343.	2.5	16
96	A Multicost Approach to Online Impairment-Aware RWA. , 2009, , .		16
97	Experimental Demonstration of Centralized and Distributed Impairment-Aware Control Plane Schemes for Dynamic Transparent Optical Networks. , 2010, , .		16
98	Value Analysis Methodology for Flexible Optical Networks. , 2011, , .		16
99	Simple intradyne PSK system for udWDM-PON. Optics Express, 2012, 20, 28758.	3.4	15
100	A roadmap on optical interconnects in data centre networks. , 2015, , .		15
101	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
102	On the Benefits of Multilayer Optimization and Application Awareness. Journal of Lightwave Technology, 2017, 35, 1274-1279.	4.6	15
103	Metro network utilizing 10 Gb/s directly modulated lasers and negative dispersion fiber. IEEE Photonics Technology Letters, 2002, 14, 408-410.	2.5	14
104	Transmission performance of a 1.5- μ m 2.5-Gb/s directly modulated tunable VCSEL. IEEE Photonics Technology Letters, 2003, 15, 599-601.	2.5	14
105	Optical networks security: a failure management framework. , 2003, , .		14
106	Clock Recovery at 160 Gb/s and Beyond, Using a Fiber-Based Optical Power Limiter. IEEE Photonics Technology Letters, 2006, 18, 2365-2367.	2.5	14
107	Field Experiments With a Grooming Switch for OTDM Meshed Networking. Journal of Lightwave Technology, 2010, 28, 316-327.	4.6	14
108	A Novel Impairment Aware RWA Algorithm With Consideration of QoT Estimation Inaccuracy. Journal of Optical Communications and Networking, 2011, 3, 290.	4.8	14

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109	On the Power Consumption of MIMO Processing and its Impact on the Performance of SDM Networks. , 2017, , .		14
110	Performance Improvement of Low-Cost 2.5-Gb/s Rated DML Sources Operated at 10 Gb/s. IEEE Photonics Technology Letters, 2008, 20, 1983-1985.	2.5	13
111	Control and Management Issues in All-Optical Networks. Journal of Networks, 2010, 5, .	0.4	13
112	Dynamic Bandwidth Allocation in Heterogeneous OFDMA-PONs Featuring Intelligent LTE-A Traffic Queuing. Journal of Lightwave Technology, 2014, 32, 1877-1885.	4.6	13
113	Comparison of CD(C) ROADM Architectures for Space Division Multiplexed Networks. , 2017, , .		13
114	Dynamic impairment aware networking for transparent mesh optical networks: Activities of EU project DICONET. , 2008, , .		12
115	Optical grooming switch with regenerative functionality for transparent interconnection of networks. Optics Express, 2009, 17, 15173.	3.4	12
116	Techno-economic comparison of current and next generation long reach optical access networks. , 2010, , .		12
117	Performance of Optical Fast-OFDM in MMF-Based Links. , 2011, , .		12
118	Energy-efficient Bandwidth Allocation in optical OFDM-based Data Center Networks. , 2012, , .		12
119	Optimized Monitor Placement for Accurate QoT Assessment in Core Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 15.	4.8	12
120	A novel architecture for all-optical add-drop multiplexing of OFDM signals. , 2014, , .		12
121	Centralized and Distributed Machine Learning-Based QoT Estimation for Sliceable Optical Networks. , 2019, , .		12
122	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
123	Decentralizing machine-learning-based QoT estimation for sliceable optical networks. Journal of Optical Communications and Networking, 2020, 12, 146.	4.8	12
124	Filter concatenation penalties for 10-Gb/s chirped transmitters suitable for WDM metropolitan area networks. IEEE Photonics Technology Letters, 2002, 14, 564-566.	2.5	11
125	A High-Speed Multiwavelength Clock Recovery Scheme for Optical Packets. IEEE Photonics Technology Letters, 2008, 20, 2147-2149.	2.5	11
126	Investigation of Mid-term Network Migration Scenarios Comparing Multi-Band and Multi-Fiber Deployments. , 2016, , .		11

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127	Supervised Machine Learning Techniques for Quality of Transmission Assessment in Optical Networks. , 2018, , .		11
128	Experimental Demonstration of Cost-Effective Intensity-Modulation and Direct-Detection Optical Fast-OFDM over 40km SMF Transmission. , 2012, , .		11
129	Transport performance of WDM metropolitan area transparent optical networks. , 0, , .		10
130	Hybrid ring-tree WDM/TDM-PON optical distribution network. , 2009, , .		10
131	Impairment-Aware Optical Networking: A Survey. Optical Networks Series, 2012, , 443-479.	1.1	10
132	Enabling transparent technologies for the development of highly granular flexible optical cross-connects. , 2014, , .		10
133	A survey of multi-layer network optimization. , 2016, , .		10
134	Energy-efficiency Study of Optical OFDM in Data Centers. , 2011, , .		10
135	Spectrum, Cost and Energy Efficiency in Fixed-Grid and Flex-Grid Networks. , 2012, , .		10
136	<title>Ultra-long-haul DWDM network studies with cost-effective reconfigurable OADMs</title>. , 2002, , .		9
137	Transport performance of an 80-Gb/s WDM regional area transparent ring network utilizing directly modulated lasers. Journal of Lightwave Technology, 2002, 20, 562-573.	4.6	9
138	Performance study of modulation formats for 10-Gb/s WDM metropolitan area networks. IEEE Photonics Technology Letters, 2004, 16, 1769-1771.	2.5	9
139	Numerical Study of Cascadability Performance of Continuous Spectrum Wavelength Blocker/Selective Switch at 10/40/160 Gb/s. IEEE Photonics Technology Letters, 2006, 18, 2608-2610.	2.5	9
140	Simulation of Multiwavelength Regeneration Based on QD Semiconductor Optical Amplifiers. IEEE Photonics Technology Letters, 2007, 19, 1577-1579.	2.5	9
141	An integrated view on monitoring and compensation for dynamic optical networks: from management to physical layer. Photonic Network Communications, 2009, 18, 191-210.	2.7	9
142	An Offline Impairment Aware RWA Algorithm with Dedicated Path Protection Consideration. , 2009, , .		9
143	Dual Waveband Remote Node for Extended Reach Full-Duplex 10 Gb/s Hybrid PONs. Journal of Lightwave Technology, 2010, 28, 1503-1509.	4.6	9
144	Experimental Study on OSNR Requirements for Spectrum-Flexible Optical Networks [Invited]. Journal of Optical Communications and Networking, 2012, 4, B85.	4.8	9

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145	Benefits of implementing a dynamic impairment-aware optical network: results of EU Project DICONET. , 2012, 50, 79-88.		9
146	Experimental Demonstration of a GMPLS-enabled Impairment-Aware Lightpath Restoration Scheme. Journal of Optical Communications and Networking, 2012, 4, 344.	4.8	9
147	A low-complexity implementation of QC-LDPC encoder in reconfigurable logic. , 2013, , .		9
148	Evaluating the Optimum Filter Resolution and Sub-Channel Spectrum Granularity for Flexible Super-Channels. , 2015, , .		9
149	Spectral vs. spatial super-channel allocation in SDM networks under independent and joint switching paradigms. , 2015, , .		9
150	Impact of IP Layer Routing Policy on Multilayer Design [Invited]. Journal of Optical Communications and Networking, 2015, 7, A396.	4.8	9
151	Experimental Demonstration of Centralized and Distributed Impairment-Aware Control Plane Schemes for Dynamic Transparent Optical Networks. , 2010, , .		9
152	Cost comparison of IP/WDM vs. IP/OTN for european backbone networks. , 0, , .		8
153	Linewidth Enhancement Factor of Semiconductor Lasers: Results from Round-Robin Measurements in COST 288. , 2007, , .		8
154	A quantitative techno-economic comparison of current and next generation metro/access converged optical networks. , 2010, , .		8
155	Adaptive Modulation-Induced Reduction in Filter Concatenation Impairment for Optical OFDM Metro/Regional Systems. Journal of Optical Communications and Networking, 2011, 3, 587.	4.8	8
156	The Evolution of Optical Networking [Scanning the Issue]. Proceedings of the IEEE, 2012, 100, 1017-1022.	21.3	8
157	Demonstration and field trial of a resilient hybrid NG-PON test-bed. Optical Fiber Technology, 2014, 20, 537-546.	2.7	8
158	Guest editorial: Spatially and spectrally flexible elastic optical networking. , 2015, 53, 20-22.		8
159	Flexible QoS Differentiation in Converged OFDMA-PON and LTE Networks. , 2013, , .		8
160	Application aware multilayer control and optimization of elastic WDM switched optical networks. , 2018, , .		8
161	Simple Intradyne PSK System for udWDM-PON. , 2012, , .		8
162	Impact of filter concatenation on the performance of metropolitan area optical networks utilizing directly modulated lasers. , 0, , .		7

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163	Metropolitan area optical networks. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2003, 19, 24-30.	0.4	7
164	Optimization study of advanced modulation formats for 10-Gb/s metropolitan networks. Journal of Lightwave Technology, 2005, 23, 321-329.	4.6	7
165	Optical interconnection of core and metro networks [Invited]. Journal of Optical Networking, 2008, 7, 928.	2.5	7
166	Impairment aware networking and relevant resiliency issues in all-optical networks. , 2008, , .		7
167	An overview of MAC issues in OFDMA-PON networks. , 2011, , .		7
168	Corrections to "Elastic Bandwidth Allocation in Flexible OFDM-Based Optical Networks" [May 11 1354-1366]. Journal of Lightwave Technology, 2011, 29, 1899-1899.	4.6	7
169	Numerical investigation of all-optical add-drop multiplexing for spectrally overlapping OFDM signals. Optics Express, 2015, 23, 5888.	3.4	7
170	Plasmonic devices for communications. , 2015, , .		7
171	Spatial group sharing for SDM optical networks with Joint Switching. , 2016, , .		7
172	Demonstration and Field Trial of a Scalable Resilient Hybrid ngPON. , 2011, , .		7
173	Toward SDM-Based Submarine Optical Networks: A Review of Their Evolution and Upcoming Trends. Telecom, 2022, 3, 234-280.	2.6	7
174	Switch fabrics. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2005, 21, 12-17.	0.4	6
175	Transparent Ring Interconnection using Multi-Wavelength Processing Switches. , 2006, , .		6
176	Adaptive modulation schemes. , 2009, , .		6
177	An All-Optical Grooming Switch for Interconnecting Access and Metro Ring Networks [Invited]. Journal of Optical Communications and Networking, 2011, 3, 206.	4.8	6
178	A Cognitive System for Fast Quality of Transmission Estimation in Core Optical Networks. , 2012, , .		6
179	Survivable and impairment-aware virtual topologies for reconfigurable optical networks: A cognitive approach. , 2012, , .		6
180	Demonstration of High-Speed MIMO OFDM Flexible Bandwidth Data Center Network. , 2012, , .		6

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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	A control plane framework for future cognitive heterogeneous optical networks. , 2012, , .		6
183	Reductions of peak-to-average power ratio and optical beat interference in cost-effective OFDMA-PONs. Photonic Network Communications, 2013, 26, 44-52.	2.7	6
184	Results from the EU project ACCORDANCE on converged OFDMA-PON networks. , 2013, , .		6
185	A Low-Latency Algorithm and FPGA Design for the Min-Search of LDPC Decoders. , 2014, , .		6
186	Control and management requirements for a coherent ultra-dense WDM PON for lambda to the user access networks. , 2014, , .		6
187	Cost and power consumption model for flexible super-channel transmission with all-optical sub-channel add/drop capability. , 2015, , .		6
188	COCONUT cost, power consumption and migration analysis: A route towards NG-PON3. , 2015, , .		6
189	Impact of filter sharpness on the performance of elastic optical networks. , 2015, , .		6
190	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
191	Benefit Evaluation of All-Optical Subchannel Add"Drop in Flexible Optical Networks. IEEE Photonics Journal, 2016, 8, 1-9.	2.0	6
192	Benefits of multi-layer application-aware resource allocation and optimization. , 2017, , .		6
193	Accurate Power-Efficient Format-Scalable Multi-Parallel Optical Digital-to-Analogue Conversion. Photonics, 2021, 8, 38.	2.0	6
194	Techno-economic study of high"splitting ratio PONs and comparison with conventional FTTH-PONs/FTTH-P2P/FTTB and FTTC deployments. , 2011, , .		6
195	Experimental Evaluation of Centralized Failure Restoration in a Dynamic Impairment-Aware All-Optical Network. , 2011, , .		6
196	Techno-Economic Evaluations of 400G Optical Interconnect Implementations for Datacenter Networks. , 2018, , .		6
197	Electronic Channel Equalization Techniques. Lecture Notes in Computer Science, 2009, , 23-47.	1.3	6
198	Hardware Accelerated Impairment Aware Control Plane. , 2010, , .		6

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199	A Framework for Dynamic Multi-layer Resource Allocation and Optimization in Application-Centric Networking. , 2017, , .		6
200	Mechanisms of wave mixing and polarisation sensitivity of the wavelength conversion in semiconductor optical amplifiers using two parallel polarised pumps. Optics Communications, 1999, 163, 49-54.	2.1	5
201	All-optical demultiplexing/shifting of 40-Gb/s OTDM optical signal using dual-pump wave mixing in bulk semiconductor optical amplifier. IEEE Photonics Technology Letters, 1999, 11, 1464-1466.	2.5	5
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