

Marian Marciniak

List of Publications by Year in descending order

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151
papers

634
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154
docs citations

154
times ranked

473
citing authors

#	ARTICLE	IF	CITATIONS
1	Stop-band optical filters protecting from harmful infrared radiation: wavelength-scale electromagnetic modelling by the method of single expression. Optical and Quantum Electronics, 2022, 54, 1.	3.3	0
2	The method of single expression (MSE) as a prospective modeling tool for boundary value problems: an extension from nano-optics to quantum mechanics. Optical and Quantum Electronics, 2020, 52, 1.	3.3	1
3	GPR Probing of Smoothly Layered Subsurface Medium: 3D Analytical Model. , 2020, , .		0
4	Unrepeated 240-km 64-QAM Transmission Using Distributed Raman Amplification over SMF Fiber. Applied Sciences (Switzerland), 2020, 10, 1433.	2.5	5
5	Electromagnetic energy flow in confined regions of evanescent waves: wavelength-scale analysis by the method of single expression. Optical and Quantum Electronics, 2019, 51, 1.	3.3	5
6	Double-Barrier Resonant Tunneling in Nano-Optics and Quantum Mechanics: Wavelength-Scale Analysis by the Method of Single Expression. , 2019, , .		1
7	General Expression of the Poynting Vector Appropriate for Evanescent Wave Region: Intrinsic Function in the Method of Single Expression. , 2018, , .		0
8	Single- And Double-Mode Light Generation in DFB Fiber Laser: Wavelength-Scale Electromagnetic Modelling by the Method of Single Expression. , 2018, , .		1
9	Comparative Modeling of Infrared Fiber Lasers. Photonics, 2018, 5, 48.	2.0	11
10	Universal expression for the Poynting vector applicable for evanescent waves: inherent output from the method of single expression. , 2018, , .		2
11	Application of Coupled-Wave Wentzel-Kramers-Brillouin Approximation to Ground Penetrating Radar. Remote Sensing, 2018, 10, 22.	4.0	11
12	Free-Space Optical Communications - Standardisation Issues. , 2018, , .		0
13	Single-Mode Light Generation in DFB Fiber Laser: Wavelength-Scale Electromagnetic Modelling by the Method of Single Expression. , 2018, , .		0
14	Comparative study of infrared fiber laser models. , 2018, , .		0
15	Short-term scientific missions on forward and inverse electromagnetic-scattering techniques for ground penetrating radar. , 2017, , .		3
16	Solution of boundary problems in intensity-dependent nano-optics and quantum mechanics by the method of single expression. , 2017, , .		5
17	Electric field sensor on the base of horizontal and vertical slot waveguide ring microresonators with LC filling. , 2017, , .		0
18	Enhancement of Air-ground Matching by Means of a Chirped Multilayer Structure: Electromagnetic Modeling with the Method of Single Expression. Journal of Telecommunications and Information Technology, 2017, 3, 30-36.	0.4	5

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19	Multi-Objective Evolutionary Optimization of Aperiodic Symmetrical Linear Arrays. Journal of Telecommunications and Information Technology, 2017, 3, 79-87.	0.4	0
20	Influence of Chirped DBR Reflector on the Absorption Efficiency of Multi-nanolayer Photovoltaic Structures: Wavelength-scale Analysis by the Method of Single Expression. Journal of Telecommunications and Information Technology, 2017, 3, 99-106.	0.4	0
21	Experimental Analysis of a Directive Antenna with a 3D-EBC Superstrate. Journal of Telecommunications and Information Technology, 2017, 3, 113-124.	0.4	1
22	The Optimum-efficiency Beam Multiplier for an Arbitrary Number of Output Beams and Power Distribution. Journal of Telecommunications and Information Technology, 2017, 3, 94-98.	0.4	1
23	Electric field sensing with liquid-crystal-filled slot waveguide microring resonators. Applied Optics, 2017, 56, 7629.	1.8	3
24	International standards for optical wireless communications: state-of-the-art and future directions. , 2017, , .		1
25	Rare-earth doped optical fibers with nano-phase glass-ceramic structures. , 2016, , .		2
26	Single-frequency radiation from DBR fiber laser: Numerical analysis by the method of single expression. , 2016, , .		2
27	Beam-Propagating Method and Physics behind it - revisited. , 2016, , .		0
28	Short-Term Scientific Missions on electromagnetic modelling and inversion techniques for Ground Penetrating Radar - COST Action TU1208. , 2016, , .		6
29	Metal-insulator-metal photomonitor for optical waveguides at telecom wavelengths. Applied Physics Express, 2016, 9, 122201.	2.4	1
30	Challenges and future trends in fiber lasers. , 2016, , .		5
31	Electromagnetic analysis of single longitudinalmode operation of DBR fiber laser: Numerical simulation by the method of single expression. , 2016, , .		2
32	Wavelength-scale analysis of influence of chirped DBRs on optical characteristics of multilayer photovoltaic cells. , 2016, , .		1
33	Grating Resonances on Periodic Arrays of Sub-wavelength Wires and Strips: From Discoveries to Photonic Device Applications. Springer Series in Optical Sciences, 2016, , 65-79.	0.7	14
34	Photonic glass-ceramics: consolidated outcomes and prospects. , 2015, , .		4
35	Microcavity with DBR mirrors for efficient THz emission from optically pumped GaP layer: Numerical analysis by the method of single expression. , 2015, , .		0
36	Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures. Ceramics International, 2015, 41, 7429-7433.	4.8	22

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37	Fabrication and optical properties of assembled gold nanoparticles film on elastomeric substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 482, 431-437.	4.7	13
38	Special issue of optical and quantum electronics on information photonics. Optical and Quantum Electronics, 2015, 47, 1-1.	3.3	7
39	Numerical and experimental analysis of copper particles velocity in low-pressure cold spraying process. Surface and Coatings Technology, 2015, 268, 230-240.	4.8	20
40	Design and fabrication of mechanochromic photonic crystals as strain sensor. Proceedings of SPIE, 2015, , .	0.8	8
41	Rare-earth doped materials for optical waveguides. , 2015, , .		5
42	Glass-ceramics for photonics: Laser material processing. , 2015, , .		1
43	Metal-dielectric multilayer structure supporting surface plasmons: electromagnetic modelling by the method of single expression. Optical and Quantum Electronics, 2015, 47, 3-15.	3.3	6
44	Red photonic glasses and confined structures. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2014, 62, 647-653.	0.8	0
45	Seeing the order in a mess: optical signature of periodicity in a cloud of plasmonic nanowires. Optics Express, 2014, 22, 28190.	3.4	21
46	Effect of Periodicity in the Resonant Scattering of Light by Finite Sparse Configurations of Many Silver Nanowires. Plasmonics, 2014, 9, 389-407.	3.4	48
47	Brewster's angle polarizer design based on a gyrotropic double-periodic perforated layer. Optical and Quantum Electronics, 2014, 46, 779-790.	3.3	3
48	Glass-ceramics for photonics: Advances and perspectives. , 2014, , .		3
49	Metal-dielectric layered structure supporting surface plasmons: Numerical modelling by the method of single expression. , 2014, , .		0
50	Optimization of the Structure of an Optical Vectorial Bend and Stress Sensor Based on a Three-Core Microstructured Fiber. Measurement Techniques, 2013, 56, 65-71.	0.6	4
51	Grating resonances as an alternative to plasmon resonances in nanophotonics applications. , 2013, , .		0
52	Periodicity assisted scattering and absorption of light by finite layered gratings of silver nanowires. , 2013, , .		0
53	Modeling of a discrete parabolic reflector made of sub-wavelength plasmonic wires. , 2013, , .		6
54	Accurate Analysis of Light Scattering and Absorption by an Infinite Flat Grating of Thin Silver Nanostrips in Free Space Using the Method of Analytical Regularization. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 9000108-9000108.	2.9	62

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55	Role of periodicity in the scattering by a cloud of randomly located plasmonic nanowires. , 2013, , .		0
56	Optimization of gyrotropic double-periodic perforated layer for Brewster's angle polarizer design. , 2013, , .		0
57	Applications of Ground Penetrating Radar in civil engineering — COST action TU1208. , 2013, , .		37
58	Optimizing the structure of optical temperature sensors on the base of slot and double-slot ring waveguides with liquid crystal filling. Optical Engineering, 2013, 53, 071802.	1.0	5
59	Analysis of orthogonally polarized modes in curved slot and double-slot waveguides. , 2013, , .		0
60	Numerical analysis of operation of metallic electrodes in Fabry-Perot electro-optical modulator of microwave-photonic receiver. , 2012, , .		0
61	Rayleigh anomalies in the E-polarized wave scattering by finite flat gratings of silver nanostrips or nanowires. , 2012, , .		1
62	Comparison of resonance optical scattering of plane waves by infinite gratings of silver cylinders and strips. , 2012, , .		0
63	Optical temperature sensor on the base of slot waveguide with LC filling. , 2012, , .		2
64	Scattering of a three- dimensional Gaussian beam with circular cross section from a gyrotropic slab. , 2012, , .		0
65	Surface plasmon interaction with amplifying MQWs in multilayer kretschmann structure: Wavelength-scale analysis by the method of single expression. , 2012, , .		2
66	Review of the results of the COST MP0702 exercise on the sensitivity of metal-dielectric layered flat lens to fabrication inaccuracies. , 2011, , .		0
67	Peculiarities of surface plasmon excitation in amplifying Kretschmann structure: Correct wavelength-scale analysis by the method of single expression. , 2011, , .		3
68	Vector bend sensor on the base of three-core microstructured fiber. , 2011, , .		0
69	Numerical modelling of Fabry-Perot microresonator based electro-optical modulator for microwave-photonic receiver. , 2011, , .		1
70	Radiatively coupled plasmons in the scattering of light by periodic grids of circular silver nanowires. , 2011, , .		1
71	Waveguiding characteristics of SiO ₂ cover layer upon Kretschmann structure: Numerical analysis by the method of single expression. , 2011, , .		3
72	Sensitivity of imaging properties of metal-dielectric layered flat lens to fabrication inaccuracies. Opto-electronics Review, 2010, 18, .	2.4	14

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73	Wavelength-scale analysis of optical field localisation at plasmonic resonance in non-linear Kretschmann structure by the method of single expression. , 2010, , .		8
74	Numerical analysis of impact of DBRs' outermost layers on optical characteristics of a surface-normal electro-absorption modulator by the method of single expression. , 2009, , .		1
75	Performance Overview of the Offset Time Emulated OBS Network Architecture. Journal of Lightwave Technology, 2009, 27, 2751-2764.	4.6	15
76	Introduction to the Feature Section on Nonlinear Dynamics in Photonic Systems. IEEE Journal of Quantum Electronics, 2009, 45, 1365-1366.	1.9	0
77	Evolution of Optical Access Networks. Lecture Notes in Computer Science, 2009, , 97-131.	1.3	1
78	Routing Optimization in Optical Burst Switching Networks: a Multi-path Routing Approach. Texts in Theoretical Computer Science, 2009, , 163-178.	0.8	1
79	Advances in sub-wavelength photonics. , 2008, , .		0
80	Sub-wavelength information photonics: Materials, phenomena, and functional devices. , 2008, , .		0
81	SPM nonlinear noise compensation in multilevel phase-modulated optical systems. , 2008, , .		0
82	Matrix infrared-visible image converter based on waveguide microring resonators. , 2008, , .		0
83	An optical model of a transmission-type vertical-cavity electro-absorption modulator on Si/SiO ₂ for high-speed intra/inter-chip interconnects. , 2008, , .		1
84	Sub-wavelength photonics - challenges and research opportunities. , 2008, , .		1
85	Future Networks - beyond Next Generation Networking. , 2008, , .		2
86	Pre-simulated local-error method for modelling of light propagation in wavelength-division-multiplexed links. , 2007, , .		1
87	<title>Mode birefringence in multi-core microstructured fibers</title>. , 2007, , .		0
88	<title>Numerical algorithm for the analysis of linear and nonlinear microstructure fibres</title>. Proceedings of SPIE, 2007, , .	0.8	0
89	Non-linear optimization for multi-path source routing in obs networks. IEEE Communications Letters, 2007, 11, 1016-1018.	4.1	15
90	Finite Difference Beam Propagation Method Applied to Photonic Crystal Fibres. , 2007, , .		0

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91	Accurate PMD Measurements Using OSA and Polarization Scrambling. , 2007, , .		0
92	Application of radio over fiber technology to enable converged optical and wireless next generation networking. , 2007, , .		3
93	Nonlinearities in the reflection and transmission spectra of the photonic bandgap heterostructures with nâ€™iâ€™pâ€™i crystals. Optical and Quantum Electronics, 2007, 39, 491-499.	3.3	1
94	Routing Optimization in Optical Burst Switching Networks. , 2007, , 201-210.		5
95	Reliability for Future Ubiquitous Network Societies Challenges and Opportunities. , 2006, , .		2
96	Next Generation Networking in Transparent Optical Networks - Challenges and Opportunities. , 2006, , .		2
97	TRANSPARENCY LIMITS IN OPTICAL FIBRES AND NETWORKS. , 2006, , .		0
98	Transparent Optical Fiber Communications for Real-Time, Packet, and Wireless Traffic. , 2006, , .		0
99	<title>Reliability aspects of the future hybrid optical network and quality of service issues for real time and packet traffic</title>. , 2004, , .		0
100	Design and optimisation of multimode 1d photonic band gap waveguide. Optical and Quantum Electronics, 2002, 34, 493-503.	3.3	2
101	Propagation of the radiation field excited on discontinuities of optical waveguides. Optical and Quantum Electronics, 2002, 34, 607-619.	3.3	0
102	Solving present and future problems in optical telecommunications with PBGs. AIP Conference Proceedings, 2001, , .	0.4	5
103	Transient reflection from a multilayer with a time jump in the sublayer permittivities. Microwave and Optical Technology Letters, 2001, 28, 274-277.	1.4	1
104	Numerical Analysis of Optical Nonlinearities in Multispan DWDM Fibre Transmission Systems. , 2001, , 113-121.		5
105	Numerical modeling in nonlinear optics: accumulation of the products of nonlinear optical interactions in multispan fiber transmission systems. , 2001, , .		0
106	Reflection from 1D quasi-periodical structures. Optical and Quantum Electronics, 2000, 32, 1005-1012.	3.3	3
107	Nonlinear interactions in wavelength-multiplexed optical fibre telecommunication systems. Journal of Optics, 2000, 2, 319-326.	1.5	15
108	Two-beam-propagation method algorithm for second-harmonic generation in dielectric planar waveguides. , 1999, , .		1

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109	Modelling of Nonlinear Crosstalk in Optical Fibre Wavelength-Division Multiplexed Telecommunication Systems. Acta Physica Polonica A, 1999, 95, 859-867.	0.5	1
110	Radiation field propagation in low-contrast single-mode optical waveguides. Optical and Quantum Electronics, 1995, 27, 977-985.	3.3	9
111	Realization of integrated Bragg reflectors in DANS-polymer waveguides. Journal of Lightwave Technology, 1993, 11, 1189-1195.	4.6	16
112	Analysis of lossy mode cut-off conditions in planar waveguides with semiconductor guiding layer. IEE Proceedings, Part J: Optoelectronics, 1993, 140, 247.	0.4	60
113	Light power division in a monomode Ti:LiNbO ₃ waveguide Y-junction power-combiner-power-divider sequence. Optics Communications, 1991, 81, 20-22.	2.1	4
114	Transmission performance of a 1 Å— 2 Ti:LiNbO ₃ strip waveguide directional coupler. Optics Communications, 1990, 79, 411-415.	2.1	0
115	Dynamics of oxide confinement vertical cavity semiconductor lasers. , 0, , .		0
116	Results of numerical simulation of wavelength multiplexed transmission in non-linear optical fibre telecommunication systems. , 0, , .		1
117	Beam propagation method modelling of light propagation in optical waveguides. , 0, , .		1
118	Analysis of reflection coefficient dependence of fibre Bragg grating on index modulation profile. , 0, , .		0
119	Achievements in PBG structures modelling and fabrication. , 0, , .		0
120	Photonic crystal theory, modelling and technology. , 0, , .		0
121	Long distance analog CATV link utilizing non-zero dispersion-shifted fiber. , 0, , .		3
122	Towards an all-optical terabit network: the impact of photonic bandgap structure technology. , 0, , .		2
123	Optimisation of short-haul DWDM fibre telecommunication systems in presence of nonlinear optical phenomena. , 0, , .		0
124	Reflection and transmission of a light on a dielectric boundary in a time domain. , 0, , .		5
125	Counteracting of stimulated Brillouin scattering in externally modulated lightwave AM-CATV systems. , 0, , .		8
126	Nonlinear interactions in short-haul DWDM optical fibre telecommunication system. , 0, , .		0

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127	Modelling and optimization of planar waveguide with layered cladding. , 0, , .		0
128	Impact of apodisation on fiber Bragg grating reflection and phase responses. , 0, , .		0
129	Development of IP/WDM optical networks. , 0, , .		2
130	IP/optical networks: the impact of optical transparency. , 0, , .		1
131	Optical transparency in next generation IP over all-optical networks. , 0, , .		2
132	Optical gain enhancement in PBG structure with active n-i-p-i superlattice. , 0, , .		1
133	QoS guarantees in IP optical networks using MPLS/MPLambdaS. , 0, , .		2
134	On retrieval of permittivity profile. , 0, , .		4
135	New method of SBS counteracting in long distance analog CATV link. , 0, , .		3
136	Penetration of electromagnetic signals into transparent inhomogeneous time-varying medium. , 0, , .		0
137	Optical packet router with QoS capabilities: introductory study of computer simulator design. , 0, , .		0
138	A comparison of different radio over fibre system concepts with regard to applications in mobile Internet and multimedia. , 0, , .		10
139	How transparent the future all-optical packet switched network should be?. , 0, , .		1
140	Nonlinear optical effects in one-dimensional photonic crystal heterostructure amplifiers. , 0, , .		1
141	A comparison of inner coding options for adaptive MIMO OFDM systems. , 0, , .		2
142	Performance analysis of the simple prioritized buffering algorithm in optical packet switch for DiffServ assured forwarding. , 0, , .		3
143	COST Action 273 at the National Institute of Telecommunications. , 0, , .		1
144	Reliability aspects of the future hybrid optical network and quality of service issues for real time and packet traffic. , 0, , .		2

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145	Numerical analysis of truncated elliptic lenses for optical and sub-mm wave receivers. , 0, , .		0
146	Nonlinear PCF as dispersion compensator in high-bitrate fiber links. , 0, , .		0
147	Simulation and optimization of spectral-efficient DWDM systems. , 0, , .		0
148	Investigation of PMD in old optical fibres and cables and PMD effects on network upgrades to higher bit rates. , 0, , .		2
149	Global optical and wireless networking - emerging opportunities for electromagnetic research. , 0, , .		1
150	Optimised availability of transparent optical infrastructure for the next generation networking. , 0, , .		2
151	Maximising efficiency of future next generation optical networking. , 0, , .		0