

Daniel Erni

List of Publications by Year in descending order

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223
papers

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citations

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226
all docs

226
docs citations

226
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Analysis of Radiation From a Dipole Source in Woodpile EBG Structures. IEEE Transactions on Antennas and Propagation, 2022, 70, 389-400.	5.1	1
2	Noncontact reception of ultrasound from soft magnetic mild steel with zero applied bias field EMATs. NDT and E International, 2022, 125, 102569.	3.7	2
3	The Impact of Group Delay Dispersion on Radar Imaging With Multiresonant Antennas. IEEE Microwave and Wireless Components Letters, 2022, 32, 241-244.	3.2	2
4	Thickness-dependent slow light gap solitons in three-dimensional coupled photonic crystal waveguides. Optics Letters, 2022, 47, 2794.	3.3	3
5	Analysis of Dielectric Post-Wall Waveguide-based Passive Circuits using Recurrent Neural Network. , 2022, , .		0
6	Bandwidth-Enhanced Circularly Polarized mm-Wave Antenna With On-Chip Ground Plane. IEEE Transactions on Antennas and Propagation, 2022, 70, 9139-9148.	5.1	1
7	Examination of the Liquid Volume Inside Metal Tanks Using Noncontact EMATs From Outside. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1314-1327.	3.0	4
8	InP-Based THz Beam Steering Leaky-Wave Antenna. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 218-230.	3.1	38
9	A self-matched leaky-wave antenna for ultrahigh-field magnetic resonance imaging with low specific absorption rate. Nature Communications, 2021, 12, 455.	12.8	14
10	Retrodirective Dielectric Resonator Tag With Polarization Twist Signature for Clutter Suppression in Self-Localization System. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5291-5299.	4.6	3
11	Beam Divergence Reduction of Vortex Waves With a Tailored Lens and a Tailored Reflector. IEEE Access, 2021, 9, 9800-9811.	4.2	2
12	Equivalent Circuit Model Separating Dissipative and Radiative Losses for the Systematic Design of Efficient Microstrip-Based On-Chip Antennas. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1282-1294.	4.6	8
13	Generation of Vortex Waves Using Crossed $2\hat{\nu}$ -Dipole Antennas. , 2021, , .		0
14	Detecting Protein Alteration within an Exosome by Means of a Coated Dielectric Microsphere Resonator. , 2021, , .		0
15	Band-Gap Solitons in Nonlinear Photonic Crystal Waveguides and Their Application for Functional All-Optical Logic Gating. Photonics, 2021, 8, 250.	2.0	6
16	The role of wallâ€™s curvature on the quantum tunneling within subnanometer gaps. , 2021, , .		0
17	Design of a 1-to-4 Subarray Element for Wireless Subharmonic Injection in the THz Band. , 2021, , .		2
18	Formation of Fe-Ni Nanoparticle Strands in Macroscopic Polymer Composites: Experiment and Simulation. Nanomaterials, 2021, 11, 2095.	4.1	6

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19	Unidirectional emission and detection of Lamb waves based on a powerful and compact coils-only EMAT. NDT and E International, 2021, 122, 102492.	3.7	14
20	Photonic Signatures of Spin-Driven Ferroelectricity in Multiferroic Dielectric Oxides. Physical Review Letters, 2021, 127, 127601.	7.8	4
21	Solution processable GHz silicon Schottky diodes. , 2021, , .		1
22	Three-Dimensional Magnetic Induction Tomography: Practical Implementation for Imaging throughout the Depth of a Low Conductive and Voluminous Body. Sensors, 2021, 21, 7725.	3.8	2
23	A compact and powerful EMAT design for contactless detection of inhomogeneities inside the liquid volume of metallic tanks. TM Technisches Messen, 2020, 87, 349-359.	0.7	4
24	A Method of Side-lobe Suppression for Reactance Modulated Antennas. , 2020, , .		2
25	Compact Metamaterial-based Coil Element for Combined ¹ H/ ²³ Na MRI at 7T. Journal of Physics: Conference Series, 2020, 1461, 012173.	0.4	0
26	Efficient Analysis of Electromagnetic Scattering in Post-Wall Waveguides and Its Application to Optimization of Millimeter Wave Filters. IEEE Open Journal of Antennas and Propagation, 2020, 1, 448-455.	3.7	3
27	Characterization of Dielectric Materials by Sparse Signal Processing With Iterative Dictionary Updates. , 2020, 4, 1-4.		2
28	OAM Mode Order Conversion and Clutter Rejection With OAM-Coded RFID Tags. IEEE Access, 2020, 8, 218729-218738.	4.2	8
29	Nanoparticle ink-based silicon Schottky diodes operating up to 2.84 ÅGHz. Nano Select, 2020, 1, 659-665.	3.7	6
30	Numerical Analysis of Dielectric Post-Wall Waveguides. , 2020, , .		1
31	Spherical mm-Wave/THz Antenna Measurement System. IEEE Access, 2020, 8, 89680-89691.	4.2	14
32	A Stochastic Large-Signal Model for Printed High-Frequency Rectifiers Used for Efficient Generation of Higher Harmonics. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2151-2160.	4.6	3
33	Toward Mobile Integrated Electronic Systems at THz Frequencies. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 846-869.	2.2	32
34	A Simple Superposition Formulation to Predict the Underwater Electric Potential Signature of Naval Vessels. Journal of Marine Science and Engineering, 2020, 8, 105.	2.6	4
35	Three-dimensional Magnetic Induction Tomography: Improved Performance for the Center Regions inside a Low Conductive and Voluminous Body. Sensors, 2020, 20, 1306.	3.8	3
36	Subharmonic Injection Locking for Phase and Frequency Control of RTD-Based THz Oscillator. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 221-224.	3.1	14

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37	Transparency and Diffused Light Efficiency of Dye-Sensitized Solar Cells: Tuning and a New Figure of Merit. IEEE Journal of Photovoltaics, 2020, 10, 522-530.	2.5	38
38	Modeling disorder in two-dimensional colloidal crystals based on electron microscope measurements. Applied Optics, 2020, 59, 10432.	1.8	6
39	Functional all-optical logic gates for true time-domain signal processing in nonlinear photonic crystal waveguides. Optics Express, 2020, 28, 18317.	3.4	20
40	Full-Wave Formalism for Soliton Propagation in Nonlinear Photonic Crystals. , 2020, , .		0
41	A Liquid Crystal Based Dynamic Metasurface for Beam Steering and Computational Imaging. , 2020, , .		4
42	Limits of Effective Material Properties in the Context of an Electromagnetic Tissue Model. IEEE Access, 2020, 8, 223806-223826.	4.2	1
43	Investigating the influence of dielectric pads in 7T magnetic resonance imaging " simulated and experimental assessment. Current Directions in Biomedical Engineering, 2020, 6, 24-27.	0.4	1
44	Coating damage localization of naval vessels using artificial neural networks. Ocean Engineering, 2019, 192, 106560.	4.3	8
45	Resonant Antenna Periodically Loaded with Series Capacitances for Enhanced Radiation Efficiency. , 2019, , .		4
46	Analysis of Scattering by Plasmonic Gratings of Circular Nanorods Using Lattice Sums Technique. Sensors, 2019, 19, 3923.	3.8	0
47	Reducing the Divergence of Vortex Waves with a Lens Tailored to the Utilized Circular Antenna Array. , 2019, , .		4
48	Semiperiodic Ultra-Broadband Double-Grating to Improve c-Si Thin-Film Solar Cell's Optical Absorption, through Numerical Structural Optimization. Crystals, 2019, 9, 264.	2.2	2
49	Triple-Barrier Resonant-Tunnelling Diode THz Detectors with on-chip antenna. , 2019, , .		7
50	Digital signal processing in coupled photonic crystal waveguides and its application to an all-optical AND logic gate. Optical and Quantum Electronics, 2019, 51, 1.	3.3	6
51	Above Water Electric Potential Signatures of Submerged Naval Vessels. Journal of Marine Science and Engineering, 2019, 7, 53.	2.6	5
52	Design and numerical demonstration of a 2D millimeter-wave beam-scanning reflectarray based on liquid crystals and a static driving technique. Journal Physics D: Applied Physics, 2019, 52, 275103.	2.8	13
53	Dynamic-range Enhancement of Heterodyne THz Imaging by the Use of a Soft Paraffin-wax Substrate Lens on the Detector. , 2019, , .		4
54	Mutually Coupled Dielectric Resonators for On-Chip Antenna Efficiency Enhancement. , 2019, , .		2

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55	Transmitarray Element Design for Subharmonic Injection-locked RTD Oscillators in THz Band. , 2019, , .		3
56	Experimental and numerical investigations of a small animal coil for ultra-high field magnetic resonance imaging (7T). Current Directions in Biomedical Engineering, 2019, 5, 525-528.	0.4	6
57	Maximizing Information Extraction of Extended Radar Targets Through MIMO Beamforming. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 539-543.	3.1	4
58	Theory of soliton propagation in nonlinear photonic crystal waveguides. Optics Express, 2019, 27, 29558.	3.4	8
59	Functionalizing plasmonic nanoparticles through adding a shell to improve electronic properties of c-Si thin-film solar cells. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 101.	2.1	2
60	Beam Switching Antenna Based on a Reconfigurable Cascaded Feeding Network. IEEE Transactions on Antennas and Propagation, 2018, 66, 627-635.	5.1	17
61	Refractive index and scattering of porous TiO ₂ films. Microporous and Mesoporous Materials, 2018, 264, 84-91.	4.4	48
62	RF Shimming and Improved SAR Safety for MRI at 7 T With Combined Eight-Element Stepped Impedance Resonators and Traveling-Wave Antenna. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 540-555.	4.6	17
63	Probing the SERS brightness of individual Au nanoparticles, hollow Au/Ag nanoshells, Au nanostars and Au core/Au satellite particles: single-particle experiments and computer simulations. Nanoscale, 2018, 10, 21721-21731.	5.6	52
64	Multi-functional RF coils for ultra-high field MRI based on 1D/2D electromagnetic metamaterials. Journal of Physics: Conference Series, 2018, 1092, 012031.	0.4	3
65	Tuning high impedance surfaces using coaxial cables for magnetic resonance imaging machines. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21477.	1.2	2
66	Compact planar array antenna with electrically beam steering from backfire to endfire based on liquid crystal. IET Microwaves, Antennas and Propagation, 2018, 12, 1140-1146.	1.4	17
67	Realization of true all-optical AND logic gate based on nonlinear coupled air-hole type photonic crystal waveguides. Optics Express, 2018, 26, 19845.	3.4	44
68	Numerical investigation of nematic liquid crystals in the THz band based on EIT sensor. Optics Express, 2018, 26, 12318.	3.4	21
69	Simulation and optimization of post-wall waveguide based compact circuits for micro and millimeter waves. , 2018, , .		0
70	Efficient analysis method of light scattering by a grating of plasmonic nanorods. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2018, 37, 1436-1448.	0.9	3
71	Metamaterial-based transmit and receive system for whole-body magnetic resonance imaging at ultra-high magnetic fields. PLoS ONE, 2018, 13, e0191719.	2.5	11
72	Optical investigation of porous TiO ₂ in mesostructured solar cells. , 2018, , .		3

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73	Numerical investigation of nematic liquid crystals in the THz band based on EIT sensor. Optics Express, 2018, 26, 12318-12329.	3.4	2
74	A metamaterial based dual-resonant coil element for combined sodium/hydrogen MRI at 7T. TM Technisches Messen, 2017, 84, 2-12.	0.7	4
75	Liquid Crystal Leaky-Wave Antennas With Dispersion Sensitivity Enhancement. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 792-801.	2.5	35
76	Electrically Controllable Composite Right/Left-Handed Leaky-Wave Antenna Using Liquid Crystals in PCB Technology. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1331-1342.	2.5	50
77	Improving Efficiency and Signal-to-Noise-Ratio of a Surface Coil by a High-Impedance-Surface RF Shield for 7-T Magnetic Resonance Imaging. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 988-997.	4.6	18
78	Frequency locking of a free running resonant tunneling diode oscillator by wire-less sub-harmonic injection locking. , 2017, , .		7
79	Periodic SIW Leaky-Wave Antenna With Large Circularly Polarized Beam Scanning Range. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2493-2496.	4.0	63
80	Field Distribution and Coupling Investigation of an Eight-Channel RF Coil Consisting of Different Dipole Coil Elements for 7T MRI. IEEE Transactions on Biomedical Engineering, 2017, 64, 1297-1304.	4.2	2
81	Non-contact radiative temperature measurement of an object in a closed cavity. , 2017, , .		1
82	Analysis of the Efficient High-Temperature in Situ Photoluminescence from GaN Layers during Epitaxial Growth. Condensed Matter, 2017, 2, 19.	1.8	0
83	REALIZATION OF ALL-OPTICAL DIGITAL AMPLIFICATION IN COUPLED NONLINEAR PHOTONIC CRYSTAL WAVEGUIDES. Progress in Electromagnetics Research, 2017, 158, 63-72.	4.4	5
84	ANALYSIS OF POST-WALL WAVEGUIDES AND CIRCUITS USING A MODEL OF TWO-DIMENSIONAL PHOTONIC CRYSTALS. Progress in Electromagnetics Research M, 2017, 56, 91-100.	0.9	5
85	Design of Silicon Nano-Bars Anti-Reflection Coating to Enhance Thin Film Solar Cells Efficiency. International Journal of Optics and Photonics, 2017, 11, 79-86.	0.3	1
86	Unconditionally stable FDTD scattered field formulation for dispersive media. Microwave and Optical Technology Letters, 2016, 58, 1778-1782.	1.4	3
87	Modelling of electron beam induced nanowire attraction. Journal of Applied Physics, 2016, 119, 145101.	2.5	5
88	Improved field homogeneity for multi-channel stepped impedance microstrip transceiver arrays and travelling wave for MRI at 7T. , 2016, , .		3
89	Leaky-Wave Antennas Based on Noncutoff Substrate Integrated Waveguide Supporting Beam Scanning From Backward to Forward. IEEE Transactions on Antennas and Propagation, 2016, 64, 2155-2164.	5.1	172
90	Mikrofluidik-Chip-Architekturen für eine Zell-Sortieranlage basierend auf der Elektrowetting-Technologie. TM Technisches Messen, 2016, 83, 274-288.	0.7	0

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91	Rigorous analysis of light scattering by a grating of nanocylinders coupled to a dielectric substrate. , 2016, , .		0
92	Semiperiodicity versus periodicity for ultra broadband optical absorption in thin-film solar cells. Journal of Nanophotonics, 2016, 10, 036018.	1.0	7
93	Coupling investigation between RF coil array elements backed by surface impedance characterized shields for 7 Tesla MRI. , 2016, , .		0
94	Near-field measurements and dual-tuned matching of two CDRA versions for combined 1H/23Na 7T-MRI. , 2016, , .		1
95	Scattered Field Leapfrog ADIâ€‘FDTD Method for Drude Dispersive Media. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1585-1588.	4.0	6
96	Conversion of UEP Signatures Between Different Environmental Conditions Using Shaft Currents. IEEE Journal of Oceanic Engineering, 2016, 41, 105-111.	3.8	7
97	Electromagnetic Field Analysis of a Dipole Coil Element With Surface Impedance Characterized Shielding Plate for 7-T MRI. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 972-981.	4.6	19
98	Improved B<inf>1</inf> distribution of an MRI RF coil element using a high-impedance-surface shield. , 2015, , .		3
99	Nonlinear all-optical digital amplification of light pulses based on coupled photonic crystal guiding nanostructures. , 2015, , .		0
100	A Method of Using Nonidentical Resonant Coils for Frequency Splitting Elimination in Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 6097-6107.	7.9	101
101	A compact electromagnetic bandgap structure based on multi-layer technology for 7-Tesla magnetic resonance imaging applications. , 2014, , .		5
102	A compact electromagnetic bandgap structure based on multi-layer technology for 7-Tesla magnetic resonance imaging applications. , 2014, , .		0
103	Coupling investigation of different RF coil elements for 7-tesla magnetic resonance imaging based on characteristic mode analysis. , 2014, , .		6
104	Highly confined photonic nanojet from elliptical particles. Journal of Modern Optics, 2014, 61, 1069-1076.	1.3	27
105	A 4-channel RF coil based on a novel dipole-element with eigen-resonant shielding plate for 7-Tesla magnetic resonance imaging. , 2014, , .		0
106	openEMS â€‘ a free and open source equivalentâ€‘circuit (EC) FDTD simulation platform supporting cylindrical coordinates suitable for the analysis of traveling wave MRI applications. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 680-696.	1.9	35
107	A MIM/coaxial stub-line CRLH zeroth-order series-mode resonator used as an RF coil element for 7-Tesla magnetic resonance imaging. , 2013, , .		1
108	RF coil element with longitudinal and transversal two-peak field distribution for low SAR 7-Tesla magnetic resonance imaging. , 2013, , .		5

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109	Average light velocities in periodic media. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2849.	2.1	6
110	Tailored RF magnetic field distribution along the bore of a 7-Tesla traveling-wave magnetic resonance imaging system. , 2013, , .		2
111	Reduced Coulomb interaction in organic solar cells by the introduction of high- k SrTiO ₃ nanoparticles. , 2013, , .		0
112	Reduced Coulomb interaction in organic solar cells by the introduction of inorganic high- k nanostructured materials. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1712-1718.	1.8	7
113	AUTOMATIC DESIGN OF BROADBAND GRADIENT INDEX METAMATERIAL LENS FOR GAIN ENHANCEMENT OF CIRCULARLY POLARIZED ANTENNAS. Progress in Electromagnetics Research, 2013, 141, 17-32.	4.4	27
114	B1-field inhomogeneity problem of MRI: Basic investigations on a head-tissue-simulating cylinder phantom excited by a birdcage-mode. , 2012, , .		2
115	Design Optimization of an Electrowetting Cell Sorter Chip Platform. Biomedizinische Technik, 2012, 57, .	0.8	0
116	Polarization-Independent Metamaterial Analog of Electromagnetically Induced Transparency for a Refractive-Index-Based Sensor. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3013-3022.	4.6	179
117	Modelling and validation of dielectric properties of human skin in the MHz region focusing on skin layer morphology and material composition. Journal Physics D: Applied Physics, 2012, 45, 025301.	2.8	46
118	Controllable Metamaterial-Loaded Waveguides Supporting Backward and Forward Waves. IEEE Transactions on Antennas and Propagation, 2011, 59, 3400-3411.	5.1	24
119	Highly adaptive RF excitation scheme based on conformal resonant CRLH metamaterial ring antennas for 7-Tesla traveling-wave magnetic resonance imaging. , 2011, 2011, 554-8.		6
120	Relevance of the light line in planar photonic crystal waveguides with weak vertical confinement. Optics Express, 2011, 19, 24344.	3.4	5
121	The Influence of Particle Shapes on the Optical Response of Nearly Touching Plasmonic Nanoparticle Dimers. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1610-1615.	0.4	6
122	Numerical investigations of a multi-walled carbon nanotube-based multi-segmented optical antenna. Applied Physics B: Lasers and Optics, 2010, 101, 601-609.	2.2	11
123	Single-shot electron bunch length measurements using a spatial electro-optical autocorrelation interferometer. Review of Scientific Instruments, 2010, 81, 104702.	1.3	7
124	Modelling effective dielectric properties of materials containing diverse types of biological cells. Journal Physics D: Applied Physics, 2010, 43, 365405.	2.8	41
125	Optical properties of a nanomatch-like plasmonic structure. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1783.	1.5	0
126	Sphere-on-pillar optical nano-antennas. , 2010, , .		1

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127	Positional dependence of FDTD mode detection in photonic crystal systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2009, 22, 201-218.	1.9	9
128	<I>A Special Issue on</I>: Functional Nanophotonics and Nanoelectromagnetics. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1977-1978.	0.4	0
129	Mode-Locked InP-Based Laser Diode With a Monolithic Integrated UTC Absorber for Subpicosecond Pulse Generation. IEEE Journal of Quantum Electronics, 2009, 45, 322-335.	1.9	11
130	Ultracompact Surface Plasmon Polariton Beam Focusing with Metal-Coated Nanoshell Structures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 744-748.	0.4	0
131	Highly efficient nano-tips with metal " dielectric coatings for tip-enhanced spectroscopy applications. Chemical Physics Letters, 2008, 453, 262-265.	2.6	30
132	Design and Analysis of Planar Photonic Band Gap Devices. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1172-1185.	0.6	5
133	Enhanced propagation in a plasmonic chain waveguide with nanoshell structures based on low- and high-order mode coupling. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1783.	1.5	33
134	Optimization of a 60° waveguide bend in InP-based 2D planar photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 67.	2.1	28
135	Optical forces on metallic nanoparticles induced by a photonic nanojet. Optics Express, 2008, 16, 13560.	3.4	85
136	Subgridding capabilities of the wavelet-transformed FDTD scheme. , 2008, , .		0
137	Energy-based stability criterion for the finite-difference time-domain method. , 2008, , .		0
138	Fast approximation formulas describing the non-linear intrinsic transistor equivalent circuit elements. , 2008, , .		0
139	Equivalent Circuit (EC) FDTD Method for the Modeling of Surface Plasmon Based Couplers. Journal of Computational and Theoretical Nanoscience, 2008, 5, 690-703.	0.4	10
140	Detailed analysis of the influence of an inductively coupled plasma reactive-ion etching process on the hole depth and shape of photonic crystals in InP-InGaAsP. Journal of Vacuum Science & Technology B, 2007, 25, 387.	1.3	38
141	Oscillator design for suppressing spurious signals. IEEE Microwave Magazine, 2007, 8, 67-80.	0.8	1
142	Ultra-Compact Power Splitter Based on Coupled Surface Plasmons. , 2007, , .		3
143	Positional Dependence of Mode Detection in FDTD based Photonic Crystal Simulations. , 2007, , .		0
144	Sharp trench waveguide bend with photonic crystals: simulation, fabrication and characterization. , 2007, , .		2

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145	Study of metallic nanoshelled structures with rigorous electromagnetic analysis. Proceedings of SPIE, 2007, , .	0.8	0
146	Analytical calculation of the Q factor for circular-grating microcavities. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 906.	2.1	14
147	Tuning the resonance frequency of Ag-coated dielectric tips. Optics Express, 2007, 15, 8309.	3.4	46
148	Influence of proximity effects in electron-beam lithography on the optical properties of planar photonic-crystal waveguides. Journal of Applied Physics, 2007, 102, 083110.	2.5	7
149	Control of Fano line shapes by means of photonic crystal structures in a dye-doped polymer. Applied Physics Letters, 2007, 90, 201105.	3.3	11
150	An analytic formalism for the emission of coherent transition radiation from an oblique finite thin metallic target screen. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 361-370.	1.4	19
151	Focused ion beam modifications of indium phosphide photonic crystals. Microelectronic Engineering, 2007, 84, 1244-1247.	2.4	7
152	Efficient Effective Permittivity Treatment for the 2D-FDTD Simulation of Photonic Crystals. Journal of Computational and Theoretical Nanoscience, 2007, 4, 644-648.	0.4	15
153	Field Computations of Optical Antennas. Journal of Computational and Theoretical Nanoscience, 2007, 4, 686-691.	0.4	33
154	Optical Phase Locking by Local Oscillator Phase Dithering. IEEE Journal of Quantum Electronics, 2006, 42, 973-985.	1.9	36
155	Photonic integration for high-density and multifunctionality in the InP-material system. , 2006, , .		3
156	Characterization of an ultrafast uni-traveling-carrier absorber for monolithically integrated InGaAsP/InP mode-locked laser diodes. , 2006, , .		0
157	In-Plane Coupling into Circular-Grating Resonators for All-Optical Switching. , 2006, , .		1
158	A multiple regrowth process for monolithically-integrated InP-based mode-locked laser diodes with uni-travelling carrier absorber. , 2006, 6183, 359.		2
159	Design of low-power fast VCSEL drivers for high-density links in 90-nm SOI CMOS. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 65-73.	4.6	13
160	Enhanced feedback and experimental band mapping of organic photonic-crystal lasers. Journal of Optics, 2006, 8, S273-S277.	1.5	3
161	A 40 Gb/s Optical Receiver in 80-nm CMOS for Short-Distance High-Density Interconnects. , 2006, , .		4
162	Feedback enhancement in lasers with organic gain material. , 2005, , .		0

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163	Near-field optics and control of photonic crystals. Photonics and Nanostructures - Fundamentals and Applications, 2005, 3, 63-74.	2.0	16
164	Tradeoffs of vertical-cavity surface emitting lasers modeling for the development of driver circuits in short distance optical links. Optical Engineering, 2005, 44, 105401.	1.0	5
165	Ultrafast carrier dynamics in InP photonic crystals. Nanotechnology, 2005, 16, 949-952.	2.6	23
166	Near-field optical microscopy of light propagation through photonic crystal waveguide tapers. , 2005, , .		1
167	Comparison of monolithically integrated mode-locked laser diodes with uni-traveling carrier and multi-quantum well saturable absorbers. , 2005, , .		1
168	A Æœstanding-wave meterÆ to measure dispersion and loss of photonic-crystal waveguides. Applied Physics Letters, 2005, 87, 261110.	3.3	8
169	Lasing in interferometrically structured organic materials. Applied Physics Letters, 2005, 87, 241124.	3.3	3
170	Fabrication of a hard mask for InP based photonic crystals: Increasing the plasma-etch selectivity of poly(methyl methacrylate) versus SiO[sub 2] and SiN[sub x]. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 3197.	1.6	25
171	PublisherÆ™s Note: Energy-Time Entanglement Preservation in Plasmon-Assisted Light Transmission [Phys. Rev. Lett.94, 110501 (2005)]. Physical Review Letters, 2005, 94, .	7.8	2
172	Phase-sensitive lock-in detection of semiconductor waveguide intensity profiles. Review of Scientific Instruments, 2005, 76, 113102.	1.3	4
173	Low-loss copper film ion-exchanged optical waveguides with step-like index profiles in glass. , 2005, , .		0
174	Enhancement of the mode coupling in photonic-crystal-based organic lasers. Journal of Optics, 2005, 7, S230-S234.	1.5	12
175	A 100-mW 4/spl times/10 Gb/s transceiver in 80-nm CMOS for high-density optical interconnects. IEEE Journal of Solid-State Circuits, 2005, 40, 2667-2679.	5.4	110
176	Enhanced feedback in organic photonic-crystal lasers. Applied Physics Letters, 2005, 87, 151121.	3.3	19
177	Comparison of simulation and measurement of dynamic fiber-coupling effects for high-speed multimode VCSELs. Journal of Lightwave Technology, 2005, 23, 2318-2330.	4.6	11
178	Quasi-analytic formalism for mode characteristics in highly overmoded rectangular dielectric waveguide bends. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 1968.	1.5	5
179	Optical phase locked loop for transparent inter-satellite communications. Optics Express, 2005, 13, 3816.	3.4	25
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