

RafaÅ, KotyÅ,,ski

List of Publications by Year in descending order

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85
papers

761
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686830

13
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525886

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85
all docs

85
docs citations

85
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Plane Wave Admittance Method - a novel approach for determining the electromagnetic modes in photonic structures. <i>Optics Express</i> , 2005, 13, 3196.	1.7	140
2	Asymmetric transmission of terahertz radiation through a double grating. <i>Optics Letters</i> , 2013, 38, 839.	1.7	97
3	Real-time single-pixel video imaging with Fourier domain regularization. <i>Optics Express</i> , 2018, 26, 20009.	1.7	54
4	Multiscale analysis of subwavelength imaging with metal-dielectric multilayers. <i>Optics Letters</i> , 2010, 35, 1133.	1.7	37
5	Comparison of imaging with sub-wavelength resolution in the canalization and resonant tunnelling regimes. <i>Journal of Optics</i> , 2009, 11, 015001.	1.5	36
6	Comparison of different methods for rigorous modeling of photonic crystal fibers. <i>Optics Express</i> , 2006, 14, 5699.	1.7	34
7	Single-pixel imaging with Morlet wavelet correlated random patterns. <i>Scientific Reports</i> , 2018, 8, 466.	1.6	30
8	Sub-wavelength diffraction-free imaging with low-loss metal-dielectric multilayers. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 905-909.	1.1	29
9	Dual nonlinear correlator based on computer controlled joint transform processor: Digital analysis and optical results. <i>Journal of Modern Optics</i> , 1997, 44, 1535-1552.	0.6	28
10	Phase and group modal birefringence of triple-defect photonic crystal fibres. <i>Journal of Optics</i> , 2005, 7, 763-766.	1.5	26
11	Optimized low-loss multilayers for imaging with sub-wavelength resolution in the visible wavelength range. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	23
12	Two-dimensional point spread matrix of layered metal-dielectric imaging elements. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 111.	0.8	17
13	Optical correlator with dual nonlinearity. <i>Journal of Modern Optics</i> , 1996, 43, 295-310.	0.6	14
14	Sensitivity of imaging properties of metal-dielectric layered flat lens to fabrication inaccuracies. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	14
15	Modeling of the polarization behavior of elliptical surface-relief VCSELs. <i>Optical and Quantum Electronics</i> , 2005, 37, 241-252.	1.5	13
16	Photonic crystal fibers with material anisotropy. <i>Optical and Quantum Electronics</i> , 2005, 37, 253-264.	1.5	13
17	Efficient adaptation of complex-valued noiselet sensing matrices for compressed single-pixel imaging. <i>Applied Optics</i> , 2016, 55, 5141.	2.1	13
18	Waveguiding losses of micro-structured fibres—plane wave method revisited. <i>Optical and Quantum Electronics</i> , 2007, 39, 469-479.	1.5	12

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19	Comparison of the performance of linear and nonlinear filters in the presence of nonergodic noise. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2162.	0.8	10
20	Compressive phase-only filtering at extreme compression rates. Optics Communications, 2017, 383, 446-452.	1.0	10
21	Differential real-time single-pixel imaging with Fourier domain regularization: applications to VIS-IR imaging and polarization imaging. Optics Express, 2021, 29, 26685.	1.7	10
22	Single-pixel imaging with sampling distributed over simplex vertices. Optics Letters, 2019, 44, 1241.	1.7	10
23	Sensitivity of holey fiber based sensors. , 0, , .		9
24	Multilayer metamaterial absorbers inspired by perfectly matched layers. Optical and Quantum Electronics, 2015, 47, 89-97.	1.5	9
25	Single pixel imaging at high pixel resolutions. Optics Express, 2022, 30, 22730.	1.7	9
26	Fourier optics approach to imaging with sub-wavelength resolution through metal-dielectric multilayers. Opto-electronics Review, 2010, 18, .	2.4	8
27	<title>Photonic crystal fibers: state of the art and future perspectives</title>. , 2004, , .		5
28	Numerical Analysis of Highly Birefringent Photonic Crystal Fibers with Bragg Reflectors. Optical and Quantum Electronics, 2006, 38, 535-545.	1.5	5
29	Normalization of correlation filters based on the Hoelder's inequality. , 1998, 3490, 195.		4
30	Analysis of two-dimensional polarisation-coupled impulse response in multilayered metallic flat lens. , 2008, , .		4
31	Engineering the point spread function of layered metamaterials. Opto-electronics Review, 2013, 21, .	2.4	4
32	Asymmetric transmission of radially polarized THz radiation through a double circular grating. Optics Express, 2014, 22, 30547.	1.7	4
33	Some considerations on the transmissivity of trirefringent metamaterials. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 116.	0.9	4
34	<title>Multiparameter sensitivities of birefringent photonic crystal fiber</title>. , 2004, , .		3
35	<title>Birefringence in photonic crystal fibers: a numerical approach based on the plane-wave method</title>. , 2004, 5576, 54.		2
36	Sensitivity of highly birefringent photonic bandgap fibers to temperature and strain. , 2005, , .		2

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37	Filtering properties of the LHM-RHM layered structures. , 2007, , .		2
38	Comments on "Thermo-optical Sensitivity Analysis of Highly Birefringent Polarimetric Sensing Photonic Crystal Fibers With Elliptically Elongated Veins" IEEE Photonics Technology Letters, 2007, 19, 795-796.	1.3	2
39	Dynamic characteristics of nonlinear Bragg gratings in photonic crystal fibres. Optical and Quantum Electronics, 2007, 39, 455-467.	1.5	2
40	Effect of surface roughness on subwavelength imaging with layered metamaterial optical elements. , 2011, , .		2
41	Determination of the point spread function of layered metamaterials assisted with the blind deconvolution algorithm. Optical and Quantum Electronics, 2015, 47, 17-26.	1.5	2
42	Far-field signature of sub-wavelength microscopic objects. Optics Express, 2020, 28, 36206.	1.7	2
43	Finite element analysis of waveguide mode coupling through a sub-structured metallic flat lens. Proceedings of SPIE, 2008, , .	0.8	1
44	Optimisation of transmission properties and subwavelength imaging of silver-dielectric layered structures operating in the canalization regime. , 2009, , .		1
45	Sub-wavelength imaging using silver-dielectric metamaterial layered prism. , 2010, , .		1
46	Imaging in the visible wavelength range through anisotropic layered flat lens operating in the canalization regime. , 2010, , .		1
47	Linear sub-diffraction spatial filtering with plasmonic materials. , 2013, , .		1
48	Optical correlator with dual nonlinearity. , 0, .		1
49	Plane-Wave Admittance Method and its Applications to Modelling Photonic Crystal Structures. , 2008, , 253-277.		1
50	Simulation of photonic crystal diode lasers with plane-wave admittance method. , 0, , .		0
51	<title>Influence of information content of partially occluded images on the results of recognition</title>. , 2000, 4113, 187.		0
52	Modeling Bragg gratings in doped-core holey fibers. , 0, , .		0
53	<title>Light propagation in birefringent doped-core holey fibers</title>. , 2004, , .		0
54	Photonic band structure of 2D lattices with left-handed materials. , 0, , .		0

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55	Bandgap tuning through material anisotropy as a novel physical mechanism for liquid crystal filled photonic crystal fiber sensors. , 2005, , .		0
56	Analysis of translation invariant metallic or double-negative material structures. , 2005, , .		0
57	Analysis of data from optical sensors with composite filtering. , 2005, 5855, 824.		0
58	Light transformations in metallo-dielectric nanolayers. , 2008, , .		0
59	Trade-off analysis of superresolution and transparency in metal-dielectric nanolayered superlens. Proceedings of SPIE, 2008, , .	0.8	0
60	Interplay of spatial filtering and dispersive effects in metamaterial superlenses. , 2008, , .		0
61	<title>Spatial filtering of the light beam with a layered silver flat lens</title>. , 2008, , .		0
62	Super-resolving metallo-dielectric flat lens. Proceedings of SPIE, 2009, , .	0.8	0
63	Imaging in the visible wavelength range through anisotropic layered flat lens operating in the canalization regime. , 2009, , .		0
64	Metal-dielectric superlens with ultra-flat phase of the modulation transfer function. , 2009, , .		0
65	Transparency and super-resolution in metal-dielectric layered structures. Proceedings of SPIE, 2010, , .	0.8	0
66	Influence of fabrication accuracies of metal-dielectric layered flat lenses on their imaging properties. , 2010, , .		0
67	Slanted layered superlenses for subwavelength light manipulation. , 2011, , .		0
68	Numerical analysis of transmission through a sub-wavelength metallic aperture or grating at visible and Terahertz wavelengths. , 2011, , .		0
69	Asymmetric transmission through diffraction-free optically linear metamaterials. , 2012, , .		0
70	Metal-dielectric layered metamaterials for sub-diffraction spatial filtering of the optical wavefront. , 2012, , .		0
71	Sub-diffraction linear spatial filtering with layered metamaterials. , 2012, , .		0
72	Asymmetric transmission through a structure consisting of two photonic bandgap materials. , 2012, , .		0

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73	Broadband asymmetric transmission of THz radiation through double metallic gratings. , 2013, , .		0
74	Metal-dielectric photonic devices for spatial filtering and image contrast enhancement. , 2013, , .		0
75	Layered and core-shell uniaxial absorbers. , 2014, , .		0
76	Layered and core-shell uniaxial absorbers. , 2014, , .		0
77	Perfectly matched layer based multilayer absorbers. Proceedings of SPIE, 2015, , .	0.8	0
78	Asymmetric transmission of transverse magnetic or radially polarized THz waves through sub-wavelength gratings. , 2015, , .		0
79	Sparse image measurement with an optical single-pixel detector using various schemes of image sampling. , 2015, , .		0
80	Optical single pixel detection for compressive sensing with unitary circulant matrices. , 2016, , .		0
81	Modified noiselet transform and its application to compressive sensing with optical single-pixel detectors. , 2016, , .		0
82	Optical single pixel detection with sampling functions utilizing prior knowledge. , 2017, , .		0
83	Balanced single-pixel camera with noiselet sampling. , 2017, , .		0
84	Spatial filtering with rough metal-dielectric layered metamaterials. Photonics Letters of Poland, 2013, 5, .	0.2	0
85	Single-pixel video imaging with DCT sampling. , 2019, , .		0