

Alexandre V Tishchenko

List of Publications by Year in descending order

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35
papers

357
citations

840776

11
h-index

794594

19
g-index

35
all docs

35
docs citations

35
times ranked

288
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized source method in curvilinear coordinates for 2D grating diffraction simulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 76-96.	2.3	11
2	General analytical solution for the electromagnetic grating diffraction problem. Optics Express, 2017, 25, 13435.	3.4	2
3	Coupled-Mode Analysis of the Low-Loss Plasmon-Triggered Switching Between the 0 th and -1 st Orders of a Metal Grating. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	6
4	Coupled Mode Modeling To Interpret Hybrid Modes and Fano Resonances in Plasmonic Systems. ACS Photonics, 2015, 2, 246-255.	6.6	16
5	Analysis of plasmon resonances on a metal particle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 113-122.	2.3	11
6	Efficient curvilinear coordinate method for grating diffraction simulation. Optics Express, 2013, 21, 25236.	3.4	13
7	Azimuthally polarized laser mode generation by multilayer mirror with wideband grating-induced TM leakage in the TE stopband. Optics Express, 2012, 20, 5392.	3.4	21
8	Light scattering in plane dielectric layers: Modeling in the 2d reciprocal space. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2424-2430.	2.3	4
9	Modified optical properties of glasses nanostructured by ZnS particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2499-2502.	2.3	3
10	New fast and memory-sparing method for rigorous electromagnetic analysis of 2D periodic dielectric structures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 158-171.	2.3	28
11	Extraction of the 3D Plasmon Field. Plasmonics, 2011, 6, 445-455.	3.4	4
12	Growth Mechanisms and Kinetics of Photoinduced Silver Nanoparticles in Mesostructured Hybrid Silica Films under UV and Visible Illumination. Journal of Physical Chemistry C, 2010, 114, 8679-8687.	3.1	23
13	Fourier modal method for relief gratings with oblique boundary conditions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1575.	1.5	16
14	Numerical demonstration of the validity of the Rayleigh hypothesis. Optics Express, 2009, 17, 17102.	3.4	46
15	Highly dispersive dielectric transmission gratings with 100% diffraction efficiency. Proceedings of SPIE, 2008, , .	0.8	1
16	Spectral phase induced by the reflection on a mirror-based waveguide grating in the neighborhood of modal resonance. Optics Letters, 2008, 33, 2053.	3.3	1
17	Bridging pole and coupled wave formalisms for grating waveguide resonance analysis and design synthesis. Optics Express, 2007, 15, 9831.	3.4	13
18	Investigation of the polarization-dependent diffraction of deep dielectric rectangular transmission gratings illuminated in Littrow mounting. Applied Optics, 2007, 46, 819.	2.1	82

#	ARTICLE	IF	CITATIONS
19	The Leaky Mode Resonance Condition Ensures 100% Diffraction Efficiency of Mirror-Based Resonant Gratings. <i>Journal of Lightwave Technology</i> , 2007, 25, 1870-1878.	4.6	36
20	Scaling rules for the design of a narrow-band grating filter at the focus of a free-space beam. , 2004, 5450, 217.		10
21	Analytical solutions of 2D grating diffraction: GSM versus Rayleigh hypothesis. , 2004, 5249, 683.		0
22	Waveguide grating coupling of 2D focused beam under normal incidence: a phenomenological approach. , 2004, 5249, 546.		3
23	Single order Fabry-Perot polarizing laser mirror. , 2004, 5249, 471.		0
24	Picometer-resolution assessment of the period constancy in a FBC phase mask. , 2004, , .		1
25	Modal basis of 2D waveguides by the generalized source method. , 2004, 5249, 79.		0
26	Monolithic diffractive interference detector on silicon. , 2004, , .		1
27	Resonant grating effects at terahertz frequencies. , 2004, 5466, 80.		2
28	Integrated polarizing function for solid state lasers. , 2003, , .		0
29	Diffraction gratings: generating the exact and complete solution of an electromagnetic problem from the approximate solution of another problem. , 2001, , .		0
30	High-spatial-frequency grating technology for microsystem applications. , 1999, 3680, 632.		0
31	<title>High-efficiency dielectric gratings for laser resonators</title>. , 1998, , .		0
32	<title>Unidirectional waveguide grating coupling by means of parallelogrammic grooves</title>. , 1997, , .		3
33	<title>Radiationally coupled corrugated waveguides</title>. , 1994, 2212, 571.		0
34	<title>Corrugated waveguide excitation by normal-incidence light beam</title>. , 1993, 2108, 503.		0
35	<title>Diffraction gratings in a system of two radiationally coupled waveguides</title>. , 1993, , .		0