Alexandre V Tishchenko

List of Publications by Year
in descending order

35	357	840776 11	794594 19
papers	citations	h-index	g-index

35	35	35	288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of the polarization-dependent diffraction of deep dielectric rectangular transmission gratings illuminated in Littrow mounting. Applied Optics, 2007, 46, 819.	2.1	82
2	Numerical demonstration of the validity of the Rayleigh hypothesis. Optics Express, 2009, 17, 17102.	3.4	46
3	The Leaky Mode Resonance Condition Ensures 100% Diffraction Efficiency of Mirror-Based Resonant Gratings. Journal of Lightwave Technology, 2007, 25, 1870-1878.	4.6	36
4	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
5	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
6	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
7	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
8	Coupled Mode Modeling To Interpret Hybrid Modes and Fano Resonances in Plasmonic Systems. ACS Photonics, 2015, 2, 246-255.	6.6	16
9	Bridging pole and coupled wave formalisms for grating waveguide resonance analysis and design synthesis. Optics Express, 2007, 15, 9831.	3.4	13
10	Efficient curvilinear coordinate method for grating diffraction simulation. Optics Express, 2013, 21, 25236.	3.4	13
11	Analysis of plasmon resonances on a metal particle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 113-122.	2.3	11
12	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
13	Scaling rules for the design of a narrow-band grating filter at the focus of a free-space beam. , 2004, 5450, 217.		10
14	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
15	Extraction of the 3D Plasmon Field. Plasmonics, 2011, 6, 445-455.	3.4	4
16	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
17	<title>Unidirectional waveguide grating coupling by means of parallelogrammic grooves</title>. , 1997, , .		3
18	Waveguide grating coupling of 2D focused beam under normal incidence: a phenomenological approach. , 2004, 5249, 546.		3

#	Article	IF	Citations
19	Modified optical properties of glasses nanostructured by ZnS particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2499-2502.	2.3	3
20	Resonant grating effects at terahertz frequencies. , 2004, 5466, 80.		2
21	General analytical solution for the electromagnetic grating diffraction problem. Optics Express, 2017, 25, 13435.	3.4	2
22	Picometer-resolution assessment of the period constancy in a FBG phase mask. , 2004, , .		1
23	Monolithic diffractive interference detector on silicon. , 2004, , .		1
24	Highly dispersive dielectric transmission gratings with 100% diffraction efficiency. Proceedings of SPIE, 2008, , .	0.8	1
25	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
26	<title>Corrugated waveguide excitation by normal-incidence light beam</title>. , 1993, 2108, 503.		0
27	<title>Diffraction gratings in a system of two radiationally coupled waveguides</title>. , 1993, , .		0
28	<title>Radiationally coupled corrugated waveguides</title>. , 1994, 2212, 571.		0
29	<title>High-efficiency dielectric gratings for laser resonators</title>. , 1998, , .		0
30	High-spatial-frequency grating technology for microsystem applications. , 1999, 3680, 632.		0
31	Diffraction gratings: generating the exact and complete solution of an electromagnetic problem from the approximate solution of another problem. , 2001, , .		0
32	Integrated polarizing function for solid state lasers. , 2003, , .		0
33	Analytical solutions of 2D grating diffraction: GSM versus Rayleigh hypothesis. , 2004, 5249, 683.		0
34	Single order Fabry-Perot polarizing laser mirror. , 2004, 5249, 471.		0
35	Modal basis of 2D waveguides by the generalized source method. , 2004, 5249, 79.		0