

Thomas SÃ¸ndergaard

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,472
citations

159358

30
h-index

143772

57
g-index

98
all docs

98
docs citations

98
times ranked

3176
citing authors

#	ARTICLE	IF	CITATIONS
1	All-dielectric one-dimensional gratings exhibiting Fano resonances in the terahertz region. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1723.	0.9	1
2	Green's function integral equation methods for modeling of optical devices. , 2020, , .		0
3	Theoretical analysis of compact cylindrical microlenses for terahertz photoconductive antennas in the photomixer regime. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1109.	0.9	4
4	Quantum spill-out in few-nanometer metal gaps: Effect on gap plasmons and reflectance from ultrasharp groove arrays. Physical Review B, 2018, 97, .	1.1	22
5	Optics of multiple grooves in metal: transition from high scattering to strong absorption. Journal of Nanophotonics, 2017, 11, 1.	0.4	4
6	Optics of multiple ultrasharp grooves in metal. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 673.	0.9	7
7	Microstructured gradient-index lenses for THz photoconductive antennas. AIP Advances, 2016, 6, .	0.6	9
8	Design and optimization of spectral beamsplitter for hybrid thermoelectric-photovoltaic concentrated solar energy devices. Solar Energy, 2016, 139, 149-156.	2.9	35
9	Optics of a single ultrasharp groove in metal. Optics Letters, 2016, 41, 2903.	1.7	6
10	Light extinction and scattering from individual and arrayed high-aspect-ratio trenches in metals. Physical Review B, 2016, 93, .	1.1	12
11	High-output LED-based light engine for profile lighting fixtures with high color uniformity using freeform reflectors. Applied Optics, 2016, 55, 1356.	2.1	3
12	Optimization of TiAlN/TiAlON/Si ₃ N ₄ solar absorber coatings. Solar Energy, 2015, 118, 410-418.	2.9	17
13	Surface plasmon polariton excitation by second harmonic generation in single organic nanofibers. Optics Express, 2015, 23, 16356.	1.7	11
14	Rapid fabrication and trimming of nanostructured backside reflectors for enhanced optical absorption in a-Si:H solar cells. Applied Physics A: Materials Science and Processing, 2015, 120, 417-425.	1.1	6
15	Light trapping in guided modes of thin-film silicon-on-silver waveguides by scattering from a nanostrip. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2036.	0.9	6
16	Light trapping in thin-film solar cells: the role of guided modes. , 2014, , .		0
17	Modeling the reflectivity of plasmonic ultrasharp groove arrays: general direction of light incidence. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1853.	0.9	5
18	A generalized non-local optical response theory for plasmonic nanostructures. Nature Communications, 2014, 5, 3809.	5.8	421

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19	Plasmonic black metal polarizers for ultra-short laser pulses. Proceedings of SPIE, 2014, , .	0.8	0
20	Theoretical analysis of plasmonic black gold: periodic arrays of ultra-sharp grooves. New Journal of Physics, 2013, 15, 013034.	1.2	24
21	Plasmonic black gold based broadband polarizers for ultra-short laser pulses. Applied Physics Letters, 2013, 103, 211102.	1.5	9
22	Plasmonic black metals by broadband light absorption in ultra-sharp convex grooves. New Journal of Physics, 2013, 15, 073007.	1.2	30
23	Pore size dependence of diffuse light scattering from anodized aluminum solar cell backside reflectors. Optics Express, 2013, 21, A84.	1.7	30
24	Extraordinary optical transmission with tapered slits: effect of higher diffraction and slit resonance orders. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 130.	0.9	27
25	Surface plasmon polariton generation by light scattering off aligned organic nanofibers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 249.	0.9	14
26	Local excitation of surface plasmon polaritons by second-harmonic generation in crystalline organic nanofibers. Optics Express, 2012, 20, 16715.	1.7	11
27	Green's function approach to investigate the excitation of surface plasmon polaritons in a nanometer-thin metal film. Physical Review B, 2012, 85, .	1.1	12
28	Coupling light into and out from the surface plasmon polaritons of a nanometer-thin metal film with a metal nanostrip. Physical Review B, 2012, 86, .	1.1	11
29	Plasmonic black gold by adiabatic nanofocusing and absorption of light in ultra-sharp convex grooves. Nature Communications, 2012, 3, 969.	5.8	274
30	Plasmonic black gold and black metals. , 2012, , .		0
31	Optical transmission through two-dimensional arrays of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Sn nanoparticles. Physical Review B, 2011, 84, .	1.1	10
32	Dyadic Green's functions of thin films: Applications within plasmonic solar cells. Physical Review B, 2011, 83, .	1.1	18
33	Localized field enhancements in two-dimensional V-groove metal arrays. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 372.	0.9	14
34	Compact lens with circular spot profile for square die LEDs in multi-LED projectors. Applied Optics, 2011, 50, 4860.	2.1	9
35	Reliability of point source approximations in compact LED lens designs. Optics Express, 2011, 19, A1190.	1.7	21
36	Nanoparticle plasmon resonances in the near-static limit. Optics Letters, 2011, 36, 713.	1.7	7

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37	Field enhancement and extraordinary optical transmission by tapered periodic slits in gold films. <i>New Journal of Physics</i> , 2011, 13, 063029.	1.2	36
38	Electrostatic plasmon resonances of metal nanoparticles in stratified geometries. , 2010, , .		0
39	Optical resonances and nanofocusing in triangular metal nano-grooves. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
40	On localized surface plasmons of metallic tin nanoparticles in silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 292-294.	1.2	11
41	Electrostatic plasmon resonances of metal nanospheres in layered geometries. <i>Physical Review B</i> , 2010, 81, .	1.1	15
42	Extraordinary Optical Transmission Enhanced by Nanofocusing. <i>Nano Letters</i> , 2010, 10, 3123-3128.	4.5	89
43	Guidelines for 1D-periodic surface microstructures for antireflective lenses. <i>Optics Express</i> , 2010, 18, 26245.	1.7	9
44	Resonant Plasmon Nanofocusing by Closed Tapered Gaps. <i>Nano Letters</i> , 2010, 10, 291-295.	4.5	79
45	High- Q plasmonic resonators based on metal split nanocylinders. <i>Physical Review B</i> , 2009, 80, .	1.1	13
46	Efficient suppression of radiation damping in resonant retardation-based plasmonic structures. <i>Physical Review B</i> , 2009, 79, .	1.1	16
47	Plasmonic metasurfaces for waveguiding and field enhancement. <i>Laser and Photonics Reviews</i> , 2009, 3, 575-590.	4.4	43
48	Surface-plasmon polariton resonances in triangular-groove metal gratings. <i>Physical Review B</i> , 2009, 80, .	1.1	45
49	Theoretical analysis and experimental demonstration of resonant light scattering from metal nanostrips on quartz. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 121.	0.9	7
50	Two-photon imaging of field enhancement by groups of gold nanostrip antennas. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2199.	0.9	3
51	Gap plasmon-polariton nanoresonators: Scattering enhancement and launching of surface plasmon polaritons. <i>Physical Review B</i> , 2009, 79, .	1.1	91
52	Strip and gap plasmon polariton optical resonators. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 9-19.	0.7	66
53	Theoretical analysis of surface-plasmon-polariton resonators in free space and close to an interface. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
54	Theoretical analysis of gold nano-strip gap plasmon resonators. <i>New Journal of Physics</i> , 2008, 10, 105008.	1.2	54

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55	Green's function surface integral equation method for theoretical analysis of scatterers close to a metal interface. Physical Review B, 2008, 77, .	1.1	40
56	Plasmon-polariton nano-strip resonators: from visible to infra-red. Optics Express, 2008, 16, 6867.	1.7	62
57	Two-photon mapping of localized field enhancements in thin nano-strip antennas. Optics Express, 2008, 16, 17302.	1.7	25
58	Slow-light plasmonic metal nano-strip resonators. , 2008, , .		1
59	Slow-plasmon resonant-nano-strip antennas: Analysis and demonstration. Physical Review B, 2008, 77, .	1.1	60
60	Slow-plasmon resonant nanostructures: Scattering and field enhancements. Physical Review B, 2007, 75, .	1.1	100
61	Metal nano-strip optical resonators. Optics Express, 2007, 15, 4198.	1.7	54
62	General properties of slow-plasmon resonant nanostructures: nano-antennas and resonators. Optics Express, 2007, 15, 10869.	1.7	227
63	Theoretical analysis of square surface plasmon-polariton waveguides for long-range polarization-independent waveguiding. Physical Review B, 2007, 76, .	1.1	77
64	Fabrication of plasmonic waveguides for device applications. , 2007, , .		3
65	Modeling of plasmonic nanostructures: Green's function integral equation methods. Physica Status Solidi (B): Basic Research, 2007, 244, 3448-3462.	0.7	72
66	SURFACE PLASMON POLARITON GUIDING IN PHOTONIC BANDGAP STRUCTURES. , 2007, , 73-86.		0
67	Adiabatic bends in surface plasmon polariton band gap structures. Optics Express, 2006, 14, 4107.	1.7	11
68	Theoretical analysis of ridge gratings for long-range surface plasmon polaritons. Physical Review B, 2006, 73, .	1.1	43
69	Photonic bandgap structures for long-range surface plasmon polaritons. Optics Communications, 2005, 250, 328-333.	1.0	51
70	Out-of-plane scattering properties of long-range surface plasmon polariton gratings. Physica Status Solidi (B): Basic Research, 2005, 242, 3064-3069.	0.7	3
71	Theoretical analysis of finite-size surface plasmon polariton band-gap structures. Physical Review B, 2005, 71, .	1.1	22
72	Propagation of long-range surface plasmon polaritons in photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2027.	0.9	14

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73	Compact Z-add-drop wavelength filters for long-range surface plasmon polaritons. Optics Express, 2005, 13, 4237.	1.7	55
74	Modeling of a surface plasmon polariton interferometer. Optics Communications, 2004, 240, 345-350.	1.0	18
75	Surface plasmon polariton scattering by a small particle placed near a metal surface: An analytical study. Physical Review B, 2004, 69, .	1.1	78
76	Vectorial model for multiple scattering by surface nanoparticles via surface polariton-to-polariton interactions. Physical Review B, 2003, 67, .	1.1	60
77	Modeling of a Surface Plasmon Polariton Interferometer. Materials Research Society Symposia Proceedings, 2003, 797, 37.	0.1	0
78	Lippmann-Schwinger integral equation approach to the emission of radiation by sources located inside finite-sized dielectric structures. Physical Review B, 2002, 66, .	1.1	15
79	Near-field imaging of light propagation in photonic crystal waveguides: Explicit role of Bloch harmonics. Physical Review B, 2002, 66, .	1.1	73
80	Low-loss silicon-on-insulator photonic crystal waveguides. Electronics Letters, 2002, 38, 274.	0.5	66
81	Theoretical analysis of finite-height semiconductor-on-insulator-based planar photonic crystal waveguides. Journal of Lightwave Technology, 2002, 20, 1619-1626.	2.7	21
82	Large-bandwidth planar photonic crystal waveguides. Optics Communications, 2002, 203, 263-270.	1.0	24
83	Direct mapping of light propagation in photonic crystal waveguides. Optics Communications, 2002, 212, 51-55.	1.0	25
84	Near fields and far fields generated by sources in the presence of dielectric structures with cylindrical symmetry. Optics Letters, 2001, 26, 1705.	1.7	2
85	General theory for spontaneous emission in active dielectric microstructures: Example of a fiber amplifier. Physical Review A, 2001, 64, .	1.0	72
86	Designing finite-height photonic crystal waveguides: confinement of light and dispersion relations. Optics Communications, 2001, 194, 341-351.	1.0	15
87	Polarization properties of honeycomb-structured photonic bandgap fibres. Journal of Optics, 2000, 2, 584-588.	1.5	9
88	Energy flow in photonic crystal waveguides. Physical Review B, 2000, 61, 15688-15696.	1.1	70
89	Photonic crystal distributed feedback fiber lasers with Bragg gratings. Journal of Lightwave Technology, 2000, 18, 589-597.	2.7	19
90	Analysis of air-guiding photonic bandgap fibers. Optics Letters, 2000, 25, 96.	1.7	184

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91	Spontaneous emission in two-dimensional photonic crystal microcavities. IEEE Journal of Quantum Electronics, 2000, 36, 450-457.	1.0	8
92	Two-dimensional Kagome photonic bandgap waveguide. IEEE Photonics Technology Letters, 2000, 12, 630-632.	1.3	8
93	Two-dimensional Kagome structure, fundamental hexagonal photonic crystal configuration. Electronics Letters, 1999, 35, 1736.	0.5	30
94	Waveguidance by the photonic bandgap effect in optical fibres. Journal of Optics, 1999, 1, 477-482.	1.5	55
95	Suppression of spontaneous emission for a two-dimensional honeycomb photonic bandgap structure estimated using a new effective-index model. IEEE Journal of Quantum Electronics, 1998, 34, 2308-2313.	1.0	19
96	NANOPLASMONICS: COMPONENTS, DEVICES, AND CIRCUITS. , 0, , 405-438.		2