

Michael K Trubetskov

List of Publications by Year in descending order

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192
papers

6,172
citations

147566

31
h-index

74018

75
g-index

193
all docs

193
docs citations

193
times ranked

5466
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear optical properties in the projector-augmented wave methodology. <i>Physical Review B</i> , 2006, 73, .	1.1	2,450
2	A New Approximation Method in the Problem of Many Electrons. <i>Journal of Chemical Physics</i> , 1935, 3, 61-61.	1.2	416
3	Application of the needle optimization technique to the design of optical coatings. <i>Applied Optics</i> , 1996, 35, 5493.	2.1	251
4	Field-resolved infrared spectroscopy of biological systems. <i>Nature</i> , 2020, 577, 52-59.	13.7	170
5	1.5-octave chirped mirror for pulse compression down to sub-3Åfs. <i>Applied Physics B: Lasers and Optics</i> , 2007, 87, 5-12.	1.1	115
6	Electro-optic sampling of near-infrared waveforms. <i>Nature Photonics</i> , 2016, 10, 159-162.	15.6	108
7	Characterization of e-beam evaporated Ge, YbF ₃ , ZnS, and LaF ₃ thin films for laser-oriented coatings. <i>Applied Optics</i> , 2020, 59, A40.	0.9	98
8	Optimal single-band normal-incidence antireflection coatings. <i>Applied Optics</i> , 1996, 35, 644.	2.1	95
9	Multi-watt, multi-octave, mid-infrared femtosecond source. <i>Science Advances</i> , 2018, 4, eaaq1526.	4.7	86
10	Double-angle multilayer mirrors with smooth dispersion characteristics. <i>Optics Express</i> , 2009, 17, 7943.	1.7	81
11	Negative dispersion mirrors for dispersion control in femtosecond lasers: chirped dielectric mirrors and multi-cavity Gires-Tournois interferometers. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, S51-S57.	1.1	67
12	Investigation of the effect of accumulation of thickness errors in optical coating production by broadband optical monitoring. <i>Applied Optics</i> , 2006, 45, 7026.	2.1	65
13	High-power multi-megahertz source of waveform-stabilized few-cycle light. <i>Nature Communications</i> , 2015, 6, 6988.	5.8	63
14	Computational manufacturing as a bridge between design and production. <i>Applied Optics</i> , 2005, 44, 6877.	2.1	62
15	Nonlinear pulse compression in a gas-filled multipass cell. <i>Optics Letters</i> , 2018, 43, 2070.	1.7	62
16	Modern design tools and a new paradigm in optical coating design. <i>Applied Optics</i> , 2012, 51, 7319.	0.9	61
17	Relativistic few-cycle pulses with high contrast from picosecond-pumped OPCPA. <i>Optica</i> , 2018, 5, 434.	4.8	61
18	Influence of small inhomogeneities on the spectral characteristics of single thin films. <i>Applied Optics</i> , 1997, 36, 7188.	2.1	60

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19	Optical parameters of oxide films typically used in optical coating production. Applied Optics, 2011, 50, C75.	2.1	52
20	Estimation of the average residual reflectance of broadband antireflection coatings. Applied Optics, 2008, 47, C124.	2.1	47
21	Measurement of group delay of dispersive mirrors with white-light interferometer. Applied Optics, 2009, 48, 949.	2.1	47
22	New optimization algorithm for the synthesis of rugate optical coatings. Applied Optics, 2006, 45, 1515.	2.1	43
23	Robust synthesis of dispersive mirrors. Optics Express, 2011, 19, 2371.	1.7	43
24	Automated design and sensitivity analysis of wavelength-division multiplexing filters. Applied Optics, 2002, 41, 3176.	2.1	39
25	Effect of systematic errors in spectral photometric data on the accuracy of determination of optical parameters of dielectric thin films. Applied Optics, 2002, 41, 2555.	2.1	37
26	Investigation of the error self-compensation effect associated with broadband optical monitoring. Applied Optics, 2011, 50, C111.	2.1	36
27	High-dispersive mirrors for high power applications. Optics Express, 2012, 20, 4503.	1.7	36
28	Stability of person-specific blood-based infrared molecular fingerprints opens up prospects for health monitoring. Nature Communications, 2021, 12, 1511.	5.8	35
29	General approach to reliable characterization of thin metal films. Applied Optics, 2011, 50, 1453.	2.1	33
30	Production of Brewster angle thin film polarizers using a ZrO ₂ /SiO ₂ pair of materials. Applied Optics, 2017, 56, C30.	2.1	33
31	Online characterization and reoptimization of optical coatings. , 2004, , .		32
32	Statistical approach to choosing a strategy of monochromatic monitoring of optical coating production. Applied Optics, 2006, 45, 7863.	2.1	32
33	Optical characterization and reverse engineering based on multiangle spectroscopy. Applied Optics, 2012, 51, 245.	0.9	32
34	In situ optical characterization and reengineering of interference coatings. Applied Optics, 2008, 47, C49.	2.1	30
35	Comparison of dispersive mirrors based on the time-domain and conventional approaches, for sub-5-fs pulses. Optics Express, 2009, 17, 2207.	1.7	30
36	Computational manufacturing of optical interference coatings: method, simulation results, and comparison with experiment. Applied Optics, 2010, 49, 3150.	2.1	30

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37	Dispersive mirror technology for ultrafast lasers in the range 220–4500 nm. <i>Advanced Optical Technologies</i> , 2014, 3, 55-63.	0.9	30
38	Efficient refinement algorithm for the synthesis of inhomogeneous optical coatings. <i>Applied Optics</i> , 1997, 36, 1487.	2.1	29
39	Effects of interface roughness on the spectral properties of thin films and multilayers. <i>Applied Optics</i> , 2003, 42, 5140.	2.1	29
40	Optical breakdown of multilayer thin-films induced by ultrashort pulses at MHz repetition rates. <i>Optics Express</i> , 2013, 21, 31453.	1.7	28
41	Comparison of algorithms used for optical characterization of multilayer optical coatings. <i>Applied Optics</i> , 2011, 50, 3389.	2.1	27
42	Enhancement cavities for few-cycle pulses. <i>Optics Letters</i> , 2017, 42, 271.	1.7	27
43	Key role of the coating total optical thickness in solving design problems. , 2004, 5250, 312.		24
44	Hybrid optical coating design for omnidirectional antireflection purposes. <i>Journal of Optics</i> , 2005, 7, L9-L12.	1.5	24
45	Elimination of cumulative effect of thickness errors in monochromatic monitoring of optical coating production: theory. <i>Applied Optics</i> , 2007, 46, 2084.	2.1	24
46	Nonlinear absorbance in dielectric multilayers. <i>Optica</i> , 2015, 2, 803.	4.8	24
47	Band filters: two-material technology versus rugate. <i>Applied Optics</i> , 2007, 46, 1190.	2.1	23
48	Time-domain approach for designing dispersive mirrors based on the needle optimization technique Theory. <i>Optics Express</i> , 2008, 16, 20637.	1.7	23
49	Highly-dispersive mirrors reach new levels of dispersion. <i>Optics Express</i> , 2015, 23, 13788.	1.7	22
50	Spectroscopic ellipsometry of slightly inhomogeneous nonabsorbing thin films with arbitrary refractive-index profiles: theoretical study. <i>Applied Optics</i> , 1998, 37, 5902.	2.1	21
51	Design, production, and reverse engineering of two-octave antireflection coatings. <i>Applied Optics</i> , 2011, 50, 6468.	2.1	21
52	Topical Meeting on Optical interference Coatings (OIC™2001): design contest results. <i>Applied Optics</i> , 2002, 41, 3022.	2.1	20
53	Computational manufacturing as a key element in the design–production chain for modern multilayer coatings. <i>Applied Optics</i> , 2012, 51, 7604.	0.9	20
54	Enhancement cavities for zero-offset-frequency pulse trains. <i>Optics Letters</i> , 2015, 40, 2165.	1.7	20

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55	Kerr effect in multilayer dielectric coatings. Optics Express, 2016, 24, 21802.	1.7	20
56	Investigations in the nonlinear behavior of dielectrics by using ultrashort pulses (Best Oral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td	1.7	19
57	On the reliability of reverse engineering results. Applied Optics, 2012, 51, 5543.	0.9	19
58	Design and fabrication of ultra-steep notch filters. Optics Express, 2013, 21, 21523.	1.7	18
59	Comparison of two techniques for reliable characterization of thin metal dielectric films. Applied Optics, 2011, 50, 6189.	2.1	17
60	Empirical study of the group delay dispersion achievable with multilayer mirrors. Optics Express, 2013, 21, 18311.	1.7	17
61	Investigation of the surface micro-roughness of fluoride films by spectroscopic ellipsometry. Thin Solid Films, 2001, 397, 229-237.	0.8	16
62	Design and production of bicolour reflecting coatings with Au metal island films. Optics Express, 2011, 19, 25521.	1.7	16
63	Design and production of antireflection coating for the $8 \times 10^4 \text{ \AA}$ spectral region. Optics Express, 2014, 22, 32174.	1.7	16
64	Stress compensation with antireflection coatings for ultrafast laser applications: from theory to practice. Optics Express, 2014, 22, 30387.	1.7	15
65	Group delay dispersion measurements in the mid-infrared spectral range of 2-20 \AA . Optics Express, 2016, 24, 16705.	1.7	15
66	Development of the needle optimization technique and new features of OptiLayer design software. , 1994, 2253, 10.		14
67	On the accuracy of optical thin film parameter determination based on spectrophotometric data. , 2003, , .		14
68	Application of constrained optimization to the design of quasi-rugate optical coatings. Applied Optics, 2008, 47, 5103.	2.1	14
69	Study of HfO ₂ /SiO ₂ dichroic laser mirrors with refractive index inhomogeneity. Applied Optics, 2014, 53, A56.	0.9	14
70	Characterization of quasi-rugate filters using ellipsometric measurements. Thin Solid Films, 1996, 277, 83-89.	0.8	13
71	Indirect broadband optical monitoring with multiple witness substrates. Applied Optics, 2009, 48, 2315.	2.1	13
72	Phase optimization of dispersive mirrors based on floating constants. Optics Express, 2010, 18, 27613.	1.7	13

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73	Reliable optical characterization of e-beam evaporated TiO ₂ films deposited at different substrate temperatures. Applied Optics, 2014, 53, A8.	0.9	13
74	Automated construction of monochromatic monitoring strategies. Applied Optics, 2015, 54, 1900.	0.9	13
75	Molecular Origin of Blood-Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie - International Edition, 2021, 60, 17060-17069.	7.2	13
76	Ultra-rapid electro-optic sampling of octave-spanning mid-infrared waveforms. Optics Express, 2021, 29, 20747.	1.7	13
77	Synthesis, fabrication and characterization of a highly-dispersive mirrors for the 2 Åµm spectral range. Optics Express, 2017, 25, 10234.	1.7	12
78	Experimental and numerical study of the nonlinear response of optical multilayers. Optics Express, 2017, 25, 12675.	1.7	12
79	Compact and flexible harmonic generator and three-color synthesizer for femtosecond coherent control and time-resolved studies. Optics Express, 2017, 25, 31130.	1.7	12
80	Comparative study of NIR-MIR beamsplitters based on ZnS/YbF ₃ and Ge/YbF ₃ . Optics Express, 2019, 27, 5557.	1.7	12
81	Computational experiments on optical coating production using monochromatic monitoring strategy aimed at eliminating a cumulative effect of thickness errors. Applied Optics, 2007, 46, 6936.	2.1	11
82	Measurements of the group delay and the group delay dispersion with resonance scanning interferometer. Optics Express, 2013, 21, 6658.	1.7	11
83	Optical Interference Coatings Design Contest 2013: angle-independent color mirror and shortwave infrared/midwave infrared dichroic beam splitter. Applied Optics, 2014, 53, A360.	0.9	11
84	Broadband beamsplitter for high intensity laser applications in the infra-red spectral range. Optics Express, 2016, 24, 16752.	1.7	11
85	2/3 octave Si/SiO ₂ infrared dispersive mirrors open new horizons in ultrafast multilayer optics. Optics Express, 2019, 27, 55.	1.7	11
86	Computational manufacturing as a tool for the selection of the most manufacturable design. Applied Optics, 2012, 51, 8677.	0.9	10
87	<title>Sensitivity of the ellipsometric angles psi and delta to the surface inhomogeneity</title>. , 1999, , .		9
88	Modern status and prospects of the development of methods of designing multilayer optical coatings. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2007, 74, 845.	0.2	9
89	Oscillations in spectral behavior of total losses ($1 - R \sim T$) in thin dielectric films. Optics Express, 2012, 20, 16129.	1.7	9
90	Reverse engineering of multilayer coatings for ultrafast laser applications. Applied Optics, 2014, 53, A114.	0.9	9

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91	Optimum Sample Thickness for Trace Analyte Detection with Field-Resolved Infrared Spectroscopy. Analytical Chemistry, 2020, 92, 7508-7514.	3.2	9
92	Deep search methods for multilayer coating design. Applied Optics, 2020, 59, A75.	0.9	9
93	Broadband dispersive Ge/YbF3 mirrors for mid-infrared spectral range. Optics Letters, 2019, 44, 5210.	1.7	9
94	Estimations of production yields for selection of a practical optimal optical coating design. Applied Optics, 2011, 50, C141.	2.1	8
95	Advantages and challenges of optical coating production with indirect monochromatic monitoring. Applied Optics, 2015, 54, 3433.	2.1	7
96	Optical monitoring strategies for optical coating manufacturing. , 2018, , 65-101.		7
97	Cavity-enhanced noncollinear high-harmonic generation. Optics Express, 2019, 27, 19675.	1.7	7
98	Reliable determination of wavelength dependence of thin film refractive index. , 2003, , .		6
99	Nonlinear behavior and damage of dispersive multilayer optical coatings induced by two-photon absorption. Proceedings of SPIE, 2014, , .	0.8	6
100	Suppression of group delay dispersion oscillations of highly dispersive mirrors by non-uniformity and post-deposition treatment. Optics and Laser Technology, 2021, 142, 107192.	2.2	6
101	Achievements and Challenges in the Design and Production of High Quality Optical Coatings. IEICE Transactions on Electronics, 2008, E91-C, 1622-1629.	0.3	6
102	Complementary Si/SiO2 dispersive mirrors for 2-4 μ m spectral range. Optics Express, 2019, 27, 34901.	1.7	6
103	<title>Designing of coatings for femtosecond lasers with phase derivative targets</title>. , 1999, , .		5
104	Quality control of oblique incidence optical coatings based on normal incidence measurement data. Optics Express, 2013, 21, 21508.	1.7	5
105	Optical interference coating design contest 2016: a dispersive mirror and coating uniformity challenge. Applied Optics, 2017, 56, C151.	2.1	5
106	Real-Time characterization and optimization of e-beam evaporated optical coatings. , 2001, , .		5
107	Robust Synthesis of Multilayer Coatings. , 2010, , .		5
108	Design of dispersive mirrors for ultrafast applications. Chinese Optics Letters, 2010, 8, 12-17.	1.3	5

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109	Thin-film coatings design using second-order optimization methods. , 1993, 1782, 156.		4
110	<title>Application of the needle optimization technique to the design of x-ray mirrors</title>. , 1999, , .		4
111	Application of advanced optimization concepts to the design of high quality optical coatings. , 2003, , .		4
112	Optical metrology of thin films using high-accuracy spectrophotometric measurements with oblique angles of incidence. , 2004, 5250, 234.		4
113	Design of multilayer coatings containing metal island films. , 2011, , .		4
114	Ultrafast optical breakdown of multilayer thin-films at kHz and MHz repetition rates: a direct comparison. Proceedings of SPIE, 2014, , .	0.8	4
115	Sensitivity-directed refinement for designing broadband blocking filters. Optics Express, 2015, 23, 5565.	1.7	4
116	Attosecond-Precision Dual-Oscillator Infrared Field-Resolved Spectroscopy Employing Electro-Optic Delay Tracking. , 2021, , .		4
117	<title>Program package for the ellipsometry of inhomogeneous layers</title>. , 1993, , .		3
118	Design of multilayers featuring inhomogenous coating properties. , 1996, 2776, 48.		3
119	Design of coatings for wide angular range applications. , 1997, , .		3
120	Efficient refinement of inhomogeneous optical coatings: synthesis by simultaneous thickness and refractive-index optimization. , 1997, , .		3
121	<title>Ellipsometric study of optical properties and small inhomogeneities of Nb_2O_5 films</title>. , 1999, , .		3
122	Optical coating design algorithm based on the equivalent layers theory. Applied Optics, 2006, 45, 1530.	2.1	3
123	Design, production and reverse engineering of ultra-steep hot mirrors. Optics Express, 2014, 22, 13448.	1.7	3
124	Design and production of three line antireflection coatings for visible and far infrared spectral regions. , 2015, , .		3
125	Octave spanning wedge dispersive mirrors with low dispersion oscillations. Optics Express, 2016, 24, 9218.	1.7	3
126	Design, fabrication and measurement of highly-dispersive mirrors with total internal reflection. Optics Express, 2020, 28, 29230.	1.7	3

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127	<title>Optimal design of graded x-ray multilayer mirrors in the angular and spectral domains</title>. , 1999, 3766, 320.		2
128	Estimation for the number of layers of broad band anti-reflection coatings. , 2008, , .		2
129	Design of Coatings in EUV, Soft X-ray and X-ray Spectral Regions. , 2013, , .		2
130	Time resolved digital holography measurements of the nonlinear optical filters. , 2017, , .		2
131	Pre-Production Analysis of Optical Coating Manufacturability. , 2007, , .		2
132	Reverse Engineering of Fabricated Coatings Using Off-Line and On-Line Photometric Data. , 2007, , .		2
133	Design, Fabrication and Reverse Engineering of Broad Band Chirped Mirrors. , 2007, , .		2
134	Structural Properties of Antireflection Coatings. , 2007, , .		2
135	Study of thin film inhomogeneity with a fast-scanning acousto-optic spectrophotometer. , 1996, , .		1
136	<title>Push-button technology in optical coating design: pro et contra</title>. , 1999, , .		1
137	Phase properties of WDM filters. , 2001, , WD5.		1
138	Thin film telecommunication filters: automated design and pre-production analysis of WDM filters. , 0, , .		1
139	Study of the feasibility of optical coatings with a continuous refractive index profile. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2009, 64, 155-160.	0.1	1
140	Design of Optical Coatings Taking into Account Thin Film Inhomogeneity. , 2013, , .		1
141	Reliable Characterization of e-beam Evaporated TiO ₂ Films. , 2013, , .		1
142	Investigation of temporal compression of few-cycle pulses from an ultrabroadband, multi-mJ optical parametric amplifier. , 2013, , .		1
143	Design, production, and reverse engineering of a double sided innovative thin film laser element. Proceedings of SPIE, 2015, , .	0.8	1
144	Field-Resolved Infrared Spectroscopy of Biological Samples. , 2019, , .		1

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145	Field-Resolved Infrared Spectroscopy of Human Blood to Tackle Lung, Prostate and Breast Cancer Detection. , 2019, , .		1
146	Broadband mid-infrared time-domain spectrometer for the molecular fingerprint region. , 2016, , .		1
147	Design and Production of Bandpass Filters with Steep Transmittance Slopes. , 2010, , .		1
148	Does Broadband Optical Monitoring Provide an Error Self-compensation Mechanism?. , 2010, , .		1
149	Design of Multilayer Coatings with Specific Angular Dependencies of Color Properties. , 2007, , .		1
150	Optical Characterization of Thin Metal Films. , 2007, , .		1
151	Computational Manufacturing Experiments for Choosing Optimal Design and Monitoring Strategy. , 2010, , .		1
152	Correlated Choice of Design and Monitoring Strategy. , 2013, , .		1
153	Optical interference coating design contest 2019: a non-polarizing beam splitter and a color-mixing challenge [Invited]. Applied Optics, 2020, 59, A206.	0.9	1
154	Mid-infrared waveform measurement by rapid mechanical scanning. EPJ Web of Conferences, 2020, 243, 16002.	0.1	1
155	Mathematical modeling of a production process. USSR Computational Mathematics and Mathematical Physics, 1983, 23, 106-113.	0.0	0
156	The problem of reducing the acoustic roar in the passenger compartment of an automobile. USSR Computational Mathematics and Mathematical Physics, 1988, 28, 162-169.	0.0	0
157	Optimization of the shape of the periodic interface between two homogeneous media with different permittivities. USSR Computational Mathematics and Mathematical Physics, 1989, 29, 52-57.	0.0	0
158	Application of the incomplete Galerkin method to solve problems of diffraction of electromagnetic waves by a non-uniform cylinder. USSR Computational Mathematics and Mathematical Physics, 1990, 30, 179-190.	0.0	0
159	Optimization of color properties of multielement optical lenses. , 1993, , .		0
160	<title>Use of a new synthesis algorithm to design polarization insensitive optical coatings</title>. , 1994, 2262, 187.		0
161	Two-component periodic layered structures for elastic wave attenuation. Waves in Random and Complex Media, 2006, 16, 457-471.	1.6	0
162	Design Opportunities for Better Manufacturability. , 2007, , WA2.		0

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163	Advanced Dispersive Optics for the VIS-IR Range. , 2007, , WA9.		0
164	Theoretical Notes on One Magic Reflectance Value. , 2007, , WB3.		0
165	Design and monitoring approaches for the production of high quality optical coatings. , 2010, , .		0
166	Estimations of Production Yields for Choosing the Best Practical Design. , 2010, , .		0
167	Robust synthesis of dispersive mirrors. Proceedings of SPIE, 2011, , .	0.8	0
168	Design of Multilayer Optical Coatings with High Stability to Refractive Index Variations. , 2013, , .		0
169	Group Delay Dispersion Measurements with Resonance Scanning Interferometry. , 2013, , .		0
170	Design of Aperiodic Multilayers for EUV Applications. , 2013, , .		0
171	Electro-optic Sampling of Mid-to-Near-Infrared Waveforms. , 2015, , .		0
172	Multilayer Optics for Ultrafast Applications. , 2015, , .		0
173	Dielectric optical coatings at high peak intensities. , 2017, , .		0
174	On the Role of the Phase in Field-Resolved Spectroscopy of Molecular Vibrations. , 2019, , .		0
175	Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie, 2021, 133, 17197-17206.	1.6	0
176	InnenÃ¼cktitelbild: Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	0
177	Accurate formulas for estimating the effect of surface micro-roughness on ellipsometric angles of dielectric thin films. , 2004, , .		0
178	On-line Re-engineering of Interference Coatings. , 2007, , .		0
179	Monitoring Strategy Combining the Advantages of Direct and Indirect Optical Monitoring. , 2007, , .		0
180	On the Reliability of Computational Estimations Used for Choosing the Most Manufacturable Design. , 2010, , .		0

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181	Application of Indirect Broadband Optical Monitoring for the Production of Three-Line Minus Filters. , 2010, , .		0
182	Reverse Engineering of an Output Coupler Using Broadband Monitoring Data and Group Delay Measurements. , 2013, , .		0
183	Study of the HfO ₂ /SiO ₂ dichroic laser mirrors having refractive index inhomogeneity. , 2013, , .		0
184	Maximum Group Delay Dispersion Achievable with Multilayer Dispersive Mirrors. , 2013, , .		0
185	New Levels of Dispersion of Highly Dispersive Mirrors. , 2015, , .		0
186	Production of Brewster-angle Polarizers for 1054 and 1064 nm Wavelengths. , 2016, , .		0
187	Practical Approach for Deriving Optical Properties of Inhomogeneous Thin Films. , 2016, , .		0
188	Design, Production and Characterization of Mirrors for Ultra-Broadband, High-Finesse Enhancement Cavities. , 2016, , .		0
189	Characterization of Nonlinear Effects in Edge Filters. , 2016, , .		0
190	High-Reflectivity Mirrors for Tailoring Carrier-Envelope Phase Properties. , 2016, , .		0
191	Design of Optical Coatings with Optimized Absorptance in Individual Layers. , 2016, , .		0
192	Broadband phase-shifting mirrors for ultrafast lasers. Applied Optics, 2020, 59, A123.	0.9	0