

# Rytis Buzelis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5336160/publications.pdf>

Version: 2024-02-01

55  
papers

362  
citations

933264

10  
h-index

839398

18  
g-index

56  
all docs

56  
docs citations

56  
times ranked

187  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly resistant all-silica polarizing coatings for normal incidence applications. Optics Letters, 2021, 46, 916.	1.7	9
2	Sculptured thin film based all-silica mirrors for high power lasers. , 2021, , .		1
3	Highly resistant all-silica polarizers for normal incidence applications. , 2021, , .		0
4	Enhancement of high reflectivity mirrors using the combination of standard and sculptured thin films. Optics and Laser Technology, 2020, 129, 106292.	2.2	3
5	Formation of all-silica sculptured thin films based optical elements on crystal substrates. , 2020, , .		0
6	High temperature annealing effects on spectral, microstructural and laser damage resistance properties of sputtered HfO <sub>2</sub> and HfO <sub>2</sub> -SiO <sub>2</sub> mixture-based UV mirrors. Optical Materials, 2019, 95, 109245.	1.7	33
7	The Capabilities to Form Multilayer Nanostructured Coatings and Their Applications for Waveplates Production. , 2019, , .		0
8	Anisotropic Optical Coatings for Polarization Control in High-power Lasers. , 2019, , .		0
9	Optical elements with significantly increased resistance to laser radiation. , 2019, , .		0
10	Optical anisotropic coatings for polarization control in high-power lasers. , 2019, , .		1
11	Oxygen plasma etching of fused silica substrates for high power laser optics. Applied Surface Science, 2018, 453, 477-481.	3.1	22
12	Enhancement of optical resistance in high reflectivity mirrors using sculptured thin films. , 2018, , .		0
13	Anisotropic coatings for normal incidence applications. , 2018, , .		1
14	Enhancement of optical resistance in high reflectivity coatings using oblique angle deposition method. , 2018, , .		2
15	Sculptured anti-reflection coatings for high power lasers. Optical Materials Express, 2017, 7, 1249.	1.6	48
16	Next generation highly resistant mirrors featuring all-silica layers. Scientific Reports, 2017, 7, 10898.	1.6	46
17	Highly Resistant Zero-Order Waveplates Based on All-Silica Multilayer Coatings. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700764.	0.8	10
18	Highly Resistant Zero-Order Waveplates Based on All-Silica Multilayer Coatings (Phys. Status Solidi A) Tj ETQq0,0,0 rgBT /Qverlock 1		

#	ARTICLE	IF	CITATIONS
19	Argon plasma etching of fused silica substrates for manufacturing high laser damage resistance optical interference coatings. <i>Optical Materials Express</i> , 2017, 7, 3598.	1.6	24
20	Next-generation all-silica coatings for UV applications. , 2017, , .		7
21	New generation all-silica based optical elements for high power laser systems. , 2017, , .		0
22	Advanced design of UV waveplates based on nano-structured thin films. , 2017, , .		0
23	High LIDT mirrors for 355nm wavelength based on combined ion beam sputtering and glancing angle deposition technique. , 2017, , .		0
24	Optical Properties of HfO <sub>2</sub> Thin Films Grown by Atomic Layer Deposition . , 2016, , .		0
25	Glancing angle deposition for production of optical components in UV region. , 2016, , .		0
26	Plasma etching of fused silica substrates for manufacturing high laser damage resistance optical interference coatings. , 2016, , .		2
27	Optical Elements for UV Applications Produced by Serial Bi-Deposition. , 2016, , .		0
28	Fabrication of Nb <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> mixed oxides by reactive magnetron co-sputtering. <i>Thin Solid Films</i> , 2015, 589, 95-104.	0.8	16
29	Assessment of effective-medium theories of ion-beam sputtered Nb <sub>2</sub> O <sub>5</sub> â€“SiO <sub>2</sub> and ZrO <sub>2</sub> â€“SiO <sub>2</sub> mixtures. <i>Lithuanian Journal of Physics</i> , 2014, 54, 99-105.	0.1	5
30	Characterization and application of HfO <sub>2</sub> - SiO <sub>2</sub> mixtures produced by ion-beam sputtering technology. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
31	Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> mixtures produced by reactive DC and RF magnetron sputtering. , 2013, , .		0
32	Investigation of subsurface damage impact on resistance of laser radiation of fused silica substrates. , 2013, , .		3
33	OPTICAL COATINGS FORMED BY GRADIENT REFRACTIVE INDEX MATERIALS / METALÅ² OKSIDÅ² IR JÅ² MIÅINIÅ² PANAUDOJIMAS KINTAMO LÅ½IO RODIKLIO OPTINÅ–MS DANGOMS FORMUOTI. <i>Science: Future of Lithuania</i> , 2012, 3, 85-90.	0.0	1
34	Effect of conventional fused silica preparation and deposition techniques on surface roughness, scattering, and laser damage resistance. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
35	Optical resistance and spectral properties of anti-reflective coatings deposited on LBO crystals by ion beam sputtering. <i>Lithuanian Journal of Physics</i> , 2011, 51, 303-308.	0.1	15
36	Investigation in oxide mixture coatings with adapted gradient index profiles. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
37	Influence of electric field distribution on laser induced damage threshold and morphology of high reflectance optical coatings. Proceedings of SPIE, 2007, , .	0.8	21
38	<title>Improvement of optical properties and radiation resistance of optical coatings based on Nb<math>\langle inf \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle O \langle math \rangle \langle inf \rangle 5 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle</math> and Ta<math>\langle inf \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle O \langle math \rangle \langle inf \rangle 5 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle</math> </title> . , 2006, , .		0
39	<title>Optimization of HfO<math>\langle inf \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle</math>, Al<math>\langle inf \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle O \langle math \rangle \langle inf \rangle 3 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle</math> and SiO<math>\langle inf \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle</math> deposition leading to advanced UV optical coatings with low extinction</title> . , 2006, , .		0
40	<title>Laser-induced damage threshold measurements of high reflecting dielectric layers</title> . , 2006, , .		2
41	The microstructure and LIDT of Nb 2 O 5 and Ta 2 O 5 optical coatings. , 2006, , .		7
42	Comparison of optical resistance of ion assisted deposition and standard electron beam deposition methods for high reflectance dielectric coatings. , 2005, , .		3
43	Influence of ion-assisted deposition on laser-induced damage threshold and microstructure of optical coatings. , 2005, 5991, 436.		1
44	Effect of substrate temperature and ion assistance on nanosecond laser-induced damage threshold in high reflection dielectric coatings. , 2005, 5991, 409.		1
45	Effect of deposition method and substrate surface quality on laser-induced damage threshold for repetitive 13-ns and 130-fs pulses. , 2005, , .		1
46	<title>Solid state lasers with pulse compression by transient stimulated Brillouin and Raman scattering</title> . , 2001, , .		5
47	<title>Numerical analysis and experimental investigation of beam quality of SBS compressor with multipass Nd:YAG amplifier</title> . , 1996, 2772, 158.		5
48	Stimulated-Brillouin-scattering compression of pulses from an Nd : YAG laser with a short cavity and measurement of the nonradiative relaxation time of the lower active level. Quantum Electronics, 1995, 25, 540-543.	0.3	9
49	Nd:YAP laser pulse compression by three-stage transient stimulated Brillouin and Raman scattering. European Physical Journal D, 1991, 41, 733-742.	0.4	5
50	Compression of the Nd: YAP laser pulse by two-stage stimulated backward scattering. Optics Communications, 1989, 73, 251-256.	1.0	10
51	Parametric generation of tunable picosecond light pulses as a result of pumping with radiation from a stimulated Raman scattering compressor. Soviet Journal of Quantum Electronics, 1988, 18, 1035-1037.	0.1	0
52	Multistage stimulated-scattering compression of pulses from a YAG:Nd laser. Soviet Journal of Quantum Electronics, 1987, 17, 1444-1446.	0.1	6
53	Formation of subnanosecond pulses by stimulated Brillouin scattering of radiation from a pulse-periodic YAG:Nd laser. Soviet Journal of Quantum Electronics, 1985, 15, 1335-1337.	0.1	19
54	Effective SBS pulse compression to >100 ps in liquid CCl/sub 4/ and fluorocarbon. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	Effect of deposition method on laser-induced damage threshold for repetitive pulses. , 0, , .		0