

## Selected Publications Optical Glass

No.	Year	Title	Authors	Published in
[52]	2022	<b>Solarization effects in optical glass from UV to blue</b>	R. Jedamzik, V. Dietrich, U. Petzold, A. Engel	To be published in Proc. SPIE 12221
[51]	2022	<b>Optical glass for high power digital projection</b>	R. Jedamzik, A. Carre, V. Hagemann, L. Bartelmess, S. Leukel, U. Petzold	Proc. SPIE 11982
[50]	2021	<b>Review of Optical Manufacturing 2000 to 2020: Chapter 2: Optical Materials</b>	F. Nürnberg, B. Kühn, R. Jedamzik, U. Petzold, G. von der Goenna	Review of Optical Manufacturing 2000 to 2020, eds. A. Zhang, R. Youngworth, SPIE
[49]	2021	<b>From history to future market requirements of optical glass at SCHOTT</b>	R. Jedamzik, U. Petzold, F. Rupp	Proc. SPIE 11889
[48]	2021	<b>The modern way of refractive index measurement of optical glass at SCHOTT</b>	F. Rupp, R. Jedamzik, L. Bartelmess, U. Petzold	Proc. SPIE 11873
[47]	2021	<b>Review of Optical Manufacturing 2000 to 2020</b>	A. Zhang, R. N. Youngworth	SPIE. Press Book
[46]	2021	<b>Optical materials for blue-laser processing</b>	R. Jedamzik, A. Carre, V. Hagemann, L. Bartelmess, S. Leukel, U. Petzold	Proc. SPIE. 11818
[45]	2021	<b>Optical glass: Challenges from optical design</b>	U. Fotheringham, M. Letz, U. Petzold, S. Ritter, Y. Menke-Berg	Encyclopedia of materials
[44]	2020	<b>Optical material for digital projection</b>	R. Jedamzik, V. Hagemann, V. Dietrich, U. Petzold	Proc. SPIE 11262

[43]	2020	<b>Optical material for space applications</b>	R. Jedamzik, G. Weber, U. Petzold	Proc. SPIE 11451
[42]	2019	<b>Optical glass: refractive index homogeneity from small to large parts – an overview</b>	R. Jedamzik, U. Petzold	Proc. SPIE 10914
[41]	2018	<b>Effects of the EU's REACH and RoHS regulations on optical and filter glass</b>	P. Hartmann	SPIE Newsroom
[40]	2018	<b>Mechanical strength of optical glasses</b>	P. Hartmann	Proc. SPIE 10692
[39]	2018	<b>Effects of striae inside optical glasses on optical systems</b>	S. Reichel, P. Hartmann, U. Petzold, S. Gärtner, H. Gross	Proc. SPIE 10690
[38]	2018	<b>Investigation of striae tolerance in optical system</b>	Y. Zhang, Y-N. Chen. H. Gross, P. Hartmann, St. Reichel	Proc. SPIE 10690
[37]	2018	<b>From VIS to SWIR: a challenge for optical glass and IR materials</b>	R. Jedamzik, U. Petzold, G. Weber	Proc. SPIE 10528
[36]	2017	<b>SCHOTT optical glass in space</b>	R. Jedamzik, U. Petzold	Proc. SPIE 10401
[35]	2017	<b>Introducing the quantum efficiency of fluorescence of SCHOTT optical glass</b>	R. Jedamzik, F. Elsmann, A. Engel, U. Petzold, J. Pleitz	Proc. SPIE 10375
[34]	2017	<b>Optical Glass: A High-Tech Base Material as Key Enabler for Photonics</b>	U. Petzold	IntechOpen
[33]	2017	<b>Preliminary results of a new proposal for objective human independent striae measurement</b>	S. Reichel, U. Petzold, C. Lempa	Proc. SPIE 10329
[32]	2017	<b>Latest results on solarization of optical glasses with pulsed laser radiation</b>	R. Jedamzik, U. Petzold	Proc. SPIE 10097
[31]	2016	<b>Large optical glass blanks for the ELT generation</b>	R. Jedamzik, U. Petzold, V. Dietrich, V. Wittmer, and O. Rexius	Proc. SPIE 9912
[30]	2015	<b>Instantaneous Dispersion: A Window into Property Relationships for Optical Glass</b>	N. A. Carlie	Int. J. Appl. Glass Sci., Vol. 6, No. 4
[29]	2015	<b>Optical glass: standards – present state and outlook</b>	P. Hartmann	Adv. Opt. Techn., Vol. 4, No. 5-6
[28]	2015	<b>Optical glass: deviation of relative partial dispersion from the normal line—need for a common definition</b>	P. Hartmann	Opt. Eng., Vol. 54, No. 10
[27]	2015	<b>The ESA radglass activity: A radiation study of non rad-hard glasses</b>	I. Manolis, J.L. Bezy, A. Costantino, R. Vink, A. Deep, M. Ahmad, E. Amorim, M. D. Miranda, and R. Meynart	Proc. SPIE 9639
[26]	2015	<b>V-Block refractometer for monitoring the production of optical glasses</b>	U. Petzold, R. Jedamzik, P. Hartmann, and S. Reichel	Proc. SPIE 9628
[25]	2015	<b>Results of a polishing study for SCHOTT XLD glasses</b>	Jedamzik, H. Yadwad, and V. Dietrich	Proc. SPIE 9628
[24]	2015	<b>Efficient simulation of autofluorescence effects in microscopic lenses</b>	H. Gross, O. Rodenko, M. Esslinger, and A. Tünnermann	Proc. SPIE 9626

[23]	2015	<b>Optical lead flint glasses – key material in optics since centuries and in future</b>	P. Hartmann	Proc. SPIE 9626
[22]	2014	<b>Optical Glass</b>	P. Hartmann	SPIE Press (Book)
[21]	2014	<b>EU regulations threaten availability of raw materials for optics</b>	P. Hartmann	SPIE Professional
[20]	2014	<b>Optical glass - refractive index change with wavelength and temperature</b>	M. Englert, P. Hartmann and S. Reichel	Proc. SPIE 9131
[19]	2014	<b>Optical Glass with tightest refractive index and dispersion tolerances for high-end optical designs</b>	R. Jedamzik, S. Reichel and P. Hartmann	Proc. SPIE 8982
[18]	2013	<b>Recent Results on Bulk Laser Damage Threshold of Optical Glasses</b>	R. Jedamzik and F. Elsmann	Proc. SPIE 8603
[17]	2013	<b>Cladding YAG crystal fibers with high-index glasses for reducing the number of guided modes</b>	K.-Y. Hsu, M.-H. Yang, D.-Y. Jheng, C.-C. Lai, S.-L. Huang, K. Mennemann, and V. Dietrich	Opt. Mat. Express, Vol. 3, No. 6
[16]	2012	<b>110 years BK7 – Optical glass type with long tradition and ongoing progress</b>	P. Hartmann	Proc. SPIE 8550
[15]	2012	<b>Optical glass: past and future of a key enabling material</b>	P. Hartmann	Adv. Opt. Techn. 1
[14]	2011	<b>Optical glass and the EU directive RoHS</b>	P. Hartmann and U. Hamm	Proc. SPIE 8065
[13]	2011	<b>Optical Glass – Dispersion in the Near Infrared</b>	P. Hartmann	Proc. SPIE 8167
[12]	2011	<b>LED collimation using high index glass</b>	R. Biertümpfel and S. Reichel	Proc. SPIE 8170
[11]	2010	<b>Optical glass and glass ceramic historical aspects and recent developments: a Schott view</b>	P. Hartmann, R. Jedamzik, S. Reichel and B. Schreder	Appl. Opt., Vol. 49, No. 16
[10]	2009	<b>Measurement and simulation of striae in optical glass</b>	H. Gross, M. Hofmann, R. Jedamzik, P. Hartmann, and S. Sinzinger	Proc. SPIE 7389
[9]	2008	<b>Optical glasses and optical elements: comparison of specification standards ISO DIS 12123 and ISO 10110</b>	P. Hartmann, R. Jedamzik	Proc. SPIE 7102
[8]	2008	<b>Optical materials for astronomy from SCHOTT: the quality of large components</b>	R. Jedamzik, J. Hengst, F. Elsmann, C. Lemke, T. Döhring, and P. Hartmann	Proc. SPIE 7018
[7]	2008	<b>Refractive Index Drop Observed After Precision Molding of Optical Elements: A Quantitative Understanding Based on the Tool– Narayanaswamy– Moynihan Model</b>	U. Fotheringham, A. Baltes, P. Fischer, P. Hoehn, R. Jedamzik, C. Schenk, C. Stolz, and G. Westenberger	J. Am. Ceram. Soc., Vol. 91, No. 3

[6]	2006	<b>Challenges in optics for Extremely Large Telescope Instrumentation</b>	P. Spano, F.M. Zerbi, C.J. Norrie, C.R. Cunningham, K.G. Strassmeier, A. Bianco, P.A. Blanche, M. Bougoin, M. Ghigo, P. Hartmann, L. Zago, E. Atad-Ettedgui, B. Delabre, H. Dekker, M. Melozzi, B. Snyders, R. Takke, and D.D. Walker	Astron. Nachr. / AN 999, No. 88
[5]	2006	<b>Large optical glass lenses for ELTs</b>	P. Hartmann and R. Jedamzik	Proc. SPIE 6273
[4]	2005	<b>Tailored properties of optical glasses</b>	R. Jedamzik, B. Hladik, and P. Hartmann	Proc. SPIE 5965
[3]	2004	<b>Removing the mystique of glass selection</b>	R. E. Fischer, A. J. Grant, U. Fotheringham, P. Hartmann, and S. Reichel	Proc. SPIE 5524
[2]	2004	<b>Large optical glass blanks for astronomy</b>	R. Jedamzik and P. Hartmann	Proc. SPIE 5494
[1]	2003	<b>Optical glasses and glass ceramics for large optical systems</b>	T. Doehring, P. Hartmann, H. F. Morian, and R. Jedamzik	Proc. SPIE 4842