

LIST OF PUBLICATIONS

- [1] S. Follonier, M. Fierz, I. Biaggio, U. Meier, Ch. Bosshard, and P. Günter, "Structural, optical and electrical properties of the organic molecular crystal 4-N,N-dimethylamino-4'-N'-methylstilbazolium toluene-p-sulfonate" *JOSA B*, 19 (9), 1990-1998 (2002).
- [2] S. Follonier, A. Knoesen, W.J. Miller, and N. L. Abbott, "Orientation of self-assembled monolayers on obliquely deposited thin gold film and its correlation to liquid crystal alignment" *Langmuir*, 19 (25), 10501–10509 (2003) DOI: 10.1021/la034813n
- [3] G. Song, S. Follonier, A. Knoesen, and R. D. Miller, "Characterization of Thin-Film Low-Dielectric Constant Materials in the Microwave Range Using On-Wafer Parallel-Plate Transmission Lines", *IEEE Microwave and Guided Wave Letters* 10 (5), 183-185 (2000).
- [4] S. Follonier, A. Schneider, Ch. Bosshard, I. Biaggio, and P. Günter, "Photorefractive effects in DAST and other organic crystals", 5th International Conference on Organic Nonlinear Optics (ICONO'5), Davos, Switzerland, March 12-16, (2000).
- [5] N. Tirelli, A. Altomare, R. Solaro, F. Ciardelli, U.W. Suter, S. Follonier, C. Bosshard, P. Günter, "Structure-Activity Relationship of new NLO Organic Materials Based on Push-Pull Azodyes. 4. Side Chain Polymers", *Polymer* 41 (2), 415-421 (2000).
- [6] Ch. Bosshard, I. Biaggio, S. Fischer, S. Follonier, and P. Günter, "Cascaded contributions to degenerate four-wave mixing in an acentric organic crystal" *Optics Letters* 24 (4), 196-198 (1999).
- [7] Ch. Bosshard, R. Spreiter, U. Meier, I. Liakatas, M. Bösch, M. Jäger, S. Manetta, S. Follonier and P. Günter, "Organic Materials for Second-Order Nonlinear Optics", *Crystal Engineering: From Molecules and Crystals to Materials*, D. Braga et al. (eds.), Kluver Academic Publishers, 261-278 (1999).
- [8] Ch. Bosshard, I. Biaggio, S. Fischer, S. Follonier and P. Günter, "Importance of Cascaded Second-Order Nonlinearities for Degenerate Four-Wave Mixing in Organic Single Crystals", *Nonlinear Optics* 22 (1-4), 283-286 (1999).
- [9] S. Follonier, "Light-induced charge transport and refractive index changes in organic electro-optic materials", Diss. ETH No. 12681, Swiss Federal Institute of Technology Zürich, Switzerland (1998).
- [10] S. Follonier, M. Döbler, Ch. Bosshard, C. Weder, U.W. Suter and P. Günter, "Polyamide Based Polymers: Influence of the Glass Transition Temperature on the Photorefractive Effect", 8th Iketani Conference, 4th International Conference on Organic Nonlinear Optics (ICONO '4), Chitose, Japan, Editor H. Sasabe, Extended Abstracts 245-246 (1998).
- [11] S. Follonier, Ch. Bosshard, M. Fierz, I. Biaggio, and P. Günter, "Photorefractive and charge transport properties of the organic crystal 4-N,N-dimethylamino-4'-N'-methylstilbazolium toluene-p-sulfonate" *Nonlinear Optics '98. Materials, Fundamentals and Applications Topical Meeting*, Kauai, HI, USA, Aug. 10-14 (1998).
- [12] M. Doeblner, Ch. Weder, P. Neuenschwander, U.W. Suter, S. Follonier, Ch. Bosshard, and P. Günter, "Synthesis and Characterization of New Photorefractive Polymers with High Glass Transition Temperatures", *Macromolecules* 31 (18), 6184-6189 (1998).
- [13] N. Tirelli, U. W. Suter, A. Altomare, R. Solaro, F. Ciardelli, S. Follonier, Ch. Bosshard, and P. Günter, "Structure-activity relationship of new organic NLO materials based on push-pull azodyes. 3. Guest-Host Systems", *Macromolecules* 31 (7), 2152-2159 (1998).

- [14] Ch. Bosshard, I. Biaggio, S. Fischer, S. Follonier and P. Günter, "Large Cascaded Second-Order Nonlinearities in Degenerate Four-Wave Mixing of Organic Single Crystals", Conference on Lasers and Electro-Optics (CLEO '98), San Francisco, USA, Optical Society of America, Technical Digest 6, 30-31 (1998).
- [15] Ch. Bosshard, I. Biaggio, S. Follonier, S. Fischer and P. Günter, "Importance of Cascaded Second-Order Nonlinearities in Degenerate Four-Wave Mixing of Organic Single Crystals", 8th Iketani Conference, 4th International Conference on Organic Nonlinear Optics (ICONO '94), Chitose, Japan, Editor H. Sasabe, Extended Abstracts 243-244 (1998).
- [16] S. Follonier, Ch. Bosshard, U. Meier, G. Knöpfle, C. Serbutoviez, F. Pan and P. Günter, "New Nonlinear-Optical Organic Crystal: 4-Dimethyl-Aminobenzaldehyde-4-Nitrophenyl-Hydrazone", J. Opt. Soc. Am. B 14 (3), 593-601 (1997).
- [17] Ch. Bosshard, M.S. Wong, F. Pan, R. Spreiter, S. Follonier, U. Meier and P. Günter, "Novel Organic Crystals for Nonlinear and Electro-Optics", in: Electrical and Related Properties of Organic Solids (Editors: R. W. Munn et al.), Kluwer Academic Publishers, 279-296 (1997).
- [18] S. Follonier, Ch. Bosshard, F. Pan and P. Günter, "Photorefractive effects observed in 4- N,N-dimethylamino-4'-N'-methylstilbazolium toluene-p-sulfonate," Opt. Lett. 21 (20), 1655- 1657 (1996).
- [19] S. Follonier, Ch. Bosshard, G. Knöpfle, U. Meier, C. Serbutoviez, F. Pan and P. Günter, "A New Nonlinear Optical Organic Crystal: 4-Dimethyl-aminobenzaldehyde-4-nitrophenyl-hydrazone (DANPH)", Proc. Materials for Nonlinear Optics, ICONO II, Val Thorens, F, (1996).
- [20] S. Follonier, Ch. Bosshard, F. Pan and P. Günter, "Photorefractive Properties of an Organic Salt", Proceedings of the European Conference on Lasers and Electro-Optics (CLEO '96), Hamburg, D, Technical Digest CMB4, 8 (1996).
- [21] F. Pan, Ch. Bosshard, M. S. Wong, C. Serbutoviez, S. Follonier, P. Günter and K. Schenk, "Polymorphism, Growth and Characterization of a New Organic Nonlinear Optical Crystal: 4-Dimethylaminobenzaldehyde-4-Nitrophenylhydrazone (DANPH)," J. of Crystal Growth 165 (3), 273-283 (1996).
- [22] F. Pan, G. Knöpfle, Ch. Bosshard, S. Follonier, R. Spreiter, M.S. Wong and P. Günter, "Electro-Optic Properties of the Organic Salt 4-N,N-Dimethylamino-4'-N'-Methyl- Stilbazolium Tosylate", Appl. Phys. Lett. 69 (1), 13-15 (1996).
- [23] C. Serbutoviez, Ch. Bosshard, S. Follonier, G. Knöpfle, F. Pan and P. Günter, "Nonlinear Optical Properties of Hydrazine Derivatives", Nonlinear Optics 15, 185-188 (1996).
- [24] C. Serbutoviez, Ch. Bosshard, S. Follonier, G. Knöpfle, P. Wyss, Ph. Prêtre, P. Günter, K. Schenk, G. Chapuis and E. Solari, "Hydrazine Derivatives, an Efficient Class of Crystalline Materials for Nonlinear Optics", Proceedings of CLEO '95, Baltimore, USA, 383-384 (1995).
- [25] Ch. Bosshard, G. Knöpfle, Ph. Prêtre, S. Follonier, Ch. Serbutoviez and P. Günter, "Molecular Crystals and Polymers for Nonlinear Optics", Optical Engineering 34 (7), 1951- 1960 (1995).
- [26] R.F. Labadie, S. Follonier, H.S. Borovetz, J. Ligush, J.F. Antaki, "An in-vitro hemodynamic replication system to be used for exposing vascular tissue to precisely controlled hemodynamics", Advances in Bioengineering 22, 497-500 (1992).