

REFERENCES

- Bass, M.; Franken, P. A.; Ward, J. F.; Weinreich, G. 1962. "Optical rectification", *Phys. Rev. Lett.*, 9, 446-448
- Bourgogne, C.; Masson, P.; Nicoud, J-F.; Brasselet, S.; Zyss, J. 2001. "Investigation of new push-pull pyridine-1-oxide derivatives as 1D NLO chromophores with vanishing dipole moment", *Syn. Met.*, 124, 213-216.
- Boomadevi, S.; Mittal, H.P.; Dhansekaran, R. 2004. "Synthesis, crystal growth and characterization of 3-methyl 4-nitropyridine 1-oxide (POM) single crystals", *J. Cryst. Growth.*, 261, 55-62.
- Chemla, D. S.; Zyss, J. 1987. "Nonlinear Optical Properties of Organic Molecules and Crystals, Vol. 2", Academic press, Orlando, 275 pp.
- Cox, S. D.; Gier, T. E.; Stucky, G. D.; Bierlein, J. D. 1988. "Inclusion tuning of nonlinear optical materials: switching the SHG of p-nitroaniline and 2-methyl-p-nitroaniline with molecular sieve hosts", *J. Am. Chem. Soc.*, 110, 2986-2987.
- Crasta, V.; Ravindrachary, V.; Bhajantri, R. F.; Gonsalves, R. 2004. "Growth and characterization of an organic NLO crystal: 1-(4-methylphenyl)-3-(4-methoxy phenyl)-2-propen-1-one", *J. Cryst. Growth.*, 267, 129-133.
- Crasta, V.; Ravindrachary, V.; Lakshmi, S.; Pramod, S. N.; Shridar, M. A.; Prasad, J. S. 2005. "Growth, Characterization and Crystal structure analysis of 1-(4-chlorophenyl)-3-(4-chlorophenyl)-2-propen-1-one", *J. Cryst. Growth.*, 275, e329-e335.

- Desiraju, G. R. 1995. "Supramolecular synthons in crystal engineering-a new organic synthesis", *Angew. Chem. Int. Ed. Engl.*, 34, 2311-2327.
- Duan, X.-M.; Konami, H.; Okada, S.; Oikawa, H.; Matsuda, H.; Nakanishi, H. 2000. "Influence of counter anion on geometries, electronic structures and nonlinear optical properties of dimethylaminostilbazolium cation: an investigation by semiempirical calculation", *J. Mol. Struct.*, 531, 65-77.
- Dulcic, A.; Sauteret, C. 1978. "The regularities observed in the second order hyperpolarizabilities of variously disubstituted benzenes", *J. Chem. Phys.*, 69, 3453-3457.
- Etter, M. C.; Frankenbach, G. M. 1989. "Hydrogen-bond directed cocrystallization as a tool for designing acentric organic solids", *Chem.Mat.*, 1, 10-12.
- Glavcheva, Z.; Umezawa, H.; Okada, S., Nakanishi, H. 2004. "New pyridinium-metal iodide complexes toward nonlinear optical materials", *Mat. Lett.*, 58, 2466-2471.
- Huang, K-S.; Britton, D.; Etter, M. C.; Byrn, S. R. 1997. "A novel class of phenol-pyridine co-crystals for second harmonic generation" *J. Matter. Chem.*, 7(5), 713-720.
- Jones, A. M.; Coleman, J. J. 1997. "Integrated optoelectronic devices by selective-area epitaxy", *Pro. SPIE., The international Society for Optical Engineering*, 2918, 146-154.
- Kurtz, S. K.; Perry, T. T.; Bergman, J. G. 1968. "Powder technique for the evaluation of nonlinear optical materials", *J. Appl. Phys.*, 39(8). 3798-3813.

- Lakshmanaperumal, C. K.; Arulchakkaravarthi, A.; Balamurugan, N.;
Santhanaraghavan, P.; Ramasamy, P. 2004. "Synthesis, Crystal growth and
Characterization of novel NLO material: 4-hydroxy benzaldehyde-*N*-methyl-
4-stilbazolium tosylate", *J. Cryst. Growth.*, 265, 260-265.
- Lakshmanaperumal, C. K.; Arulchakkaravarthi, A.; Rajesh, N. P.; Raghavan, P. S.;
Huang, Y. C.; Ichimura, M.; Ramasamy, P. 2002. "Synthesis, Crystal growth
and FTIR, NMR, SHG studies of 4-methoxy benzaldehyde-*N*-methyl-4-
stilbazolium tosylate (MBST)", *J. Cryst. Growth.*, 240, 212-217.
- Levine, B. F. 1975. "Conjugated electron contributions to the second order
hyperpolarizability of substituted benzene molecules", *J. Chem. Phys.*, 63,
115-117.
- Marder, S. R.; Beratan, D. N.; Cheng, L. T. 1991. "Approaches for optimizing the
first electronic hyperpolarizability of conjugated organic molecules", *Science
(Washington, DC, United States)*, 252, 103-106.
- Marder, S. R.; Perry, J. W. 1993. "Molecular materials for second-order nonlinear
optical applications", *Adv. Mater.*, 5, 804-815.
- Marder, S. R.; Perry, J. W.; Schaefer, W. P. 1989. "Synthesis of organic salts with
large second-order optical nonlinearities", *Science*, 245, 626-628.
- Nie, W. 1993. "Optical nonlinearity: phenomena, applications, and materials", *Adv.
Mater.*, 5, 520-545.
- Nogi, K.; Anwar; Tsuji, K.; Duan, X-M. 2000. "Preparation of polyene analogues of
stilbazolium", *Nonlinear Optics*, 24, 35-40.

- Okada, S.; Matsuda, H.; Nakanishi, H.; Kato, M. 1990. "Preparation and nonlinear optical property of polydiacetylenes from dialkyltetraacetylene compound", *Mol. Cryst. Liq. Cryst.*, 189, 57-63.
- Oudar, J. L.; Chemla, D. S. 1977. "Hyperpolarizabilities of the nitroanilines and their relations to the excited state dipole moment", *J. Chem. Phys.*, 66, 2664-2668.
- Oudar, J. L.; Le Person, H. 1975. "Second-order polarizabilities of some aromatic molecules", *Opt. Commun.*, 15, 258-262.
- Ray, P. C. 2004. "The effects of π -conjugation on first hyperpolarizabilities of charged NLO chromophores", *Chem. Phys. Lett.*, 394, 354-360.
- Umezawa, H.; Tsuji, K.; Anwar; Duan, X-M.; Okada, S.; Oikawa, H.; Matsuda, H. 1999. "Synthesis of stilbazolium derivatives having 2-(6-dimethylamino)-naphthyl group for nonlinear optics", *Nonlinear Optics*, 24, 73-78.
- Usman, A.; Komatsu, K.; Okada, S.; Oikawa, H.; Matsuda, H.; Nakanishi, H. 1999. "Synthesis, crystal structures, and second-order nonlinear optical properties of new colorless 4-carbamoylpyridinium benzenesulfonate salts", *Pro. SPIE.*, 3796, 219-228.
- Usman, A.; Duan, X-M.; Komatsu, K.; Okada, S.; Matsuda, H.; Oikawa, H.; Nakanishi, H. 1997. "Second-order hyperpolarizability of pyridinium cations", *Chem. Lett.*, 3, 247-248.
- Usman, A.; Duan, X-M.; Komatsu, K.; Okada, S.; Oikawa, H.; Matsuda, H.; Nakanishi, H. 1999. "Synthesis of substituted pyridinium-benzenesulfonates crystals for second-harmonic generation", *Nonlinear Optics*, 22, 251-254.

- Usman, A.; Duan, X-M.; Okada, S.; Matsuda, H.; Oikawa, H.; Nakanishi, H. 1998. "First hyperpolarizability of benzoate anions and esters", *J. Chem. Soc., Perkin Trans. 2*, 11, 2451-2457.
- Usman, A.; Kosuge, H.; Okada, S.; Oikawa, H.; Nakanishi, H. 2001. "4-(Dimethyl-amino)-1-ethylpyridinium iodide: a new colorless organic ionic crystal for second-order nonlinear optics", *Jpn. J. Appl. Phys.*, 40, 4213-4216.
- Usman, A.; Okada, S.; Oikawa, H.; Nakanishi, H. 2000. "Preparation and Crystal Structures of New Colorless 4-Amino-1-methylpyridinium Benzenesulfonate Salts for Second-Order Nonlinear Optics", *Chem. Mater.*, 12, 1162-1170.
- Williams, D. J. 1984. "Organic polymeric and Non-polymeric Materials with large optical nonlinearities", *Angew. Chem. Int. Ed. Engl.*, 23, 690-703.
- Zelichenok, A.; Burtman, V.; Zenou, N.; Yitzchaik, S.; Bella, S. D.; Meshulam, G.; Kotler, Z. 1999. "Quinolinium-derived acentric crystals for second-order NLO applications with transparency in the blue", *J. Phys. Chem. B*, 103, 8702-8705.
- Zyss, J.; Nicoud, J. F.; Coquillay, M. 1984. "Chirality and hydrogen bonding in molecular crystals for phase-matched second-harmonic generation: N-(4-nitrophenyl)-(L)-prolinol (NPP)", *J. Chem. Phys.*, 81, 4160-4167.