

DAFTAR PUSTAKA

- Abdullah, Z., Ripai, A., Musyayyadah, H.A., Sutantyo, T.E.P., Syafwan, M., Hidayat, W., Katti, A. and Halif, M.N.A., 2023. Temporal behavior of bright and dark spatial solitons in photorefractive crystals having both the linear and quadratic electro-optic effects based on low amplitude approximations. *Optik*, 284, p.170871.
- Agrawal, G.P., 2013, Serat optik nonlinier , 5th Edition, Academic Press, Inc., San Diego, CA
- Bile, A., Tari, H. and Fazio, E., 2022. Episodic memory and information recognition using Solitonic neural networks based on photorefractive plasticity. *Applied Sciences*, 12(11), p.5585.
- Chapra, S.C., 2010. *Numerical methods for engineers*. Mcgraw-hill.
- Chen, Z., Segev, M. and Christodoulides, D.N., 2012. Optical spatial solitons: historical overview and recent advances. *Reports on Progress in Physics*, 75(8), p.086401.
- Christodoulides, D.N. and Carvalho, M.I., 1995. Bright, dark, and gray spatial soliton states in photorefractive media. *JOSA B*, 12(9), pp.1628-1633.
- Cohen, O., Freedman, B., Fleischer, J.W., Segev, M. and Christodoulides, D.N., 2004. Grating-mediated waveguiding. *Physical review letters*, 93(10), p.103902.
- Dai CQ, Wang YY. Coupled spatial periodic waves and solitons in the photovoltaic photorefractive crystals. *Nonlinear dynamics*. 2020 Nov;102:1733-41.
- DelRe, E., D'Ercole, A. and Palange, E., 2005. Mechanisms supporting long propagation regimes of photorefractive solitons. *Physical Review E*, 71(3), p.036610.

- Deshmukh, A., Kale, M., Kulkarni, S. and Katti, A., 2023, February. Temperature effects on soliton pairs in novel photorefractive crystals having both the linear and quadratic electro-optic effects. In *Journal of Physics: Conference Series* (Vol. 2426, No. 1, p. 012027). IOP Publishing.
- Fazio, E., Renzi, F., Rinaldi, R., Bertolotti, M., Chauvet, M., Ramadan, W., Petris, A. and Vlad, V.I., 2004. Screening-photovoltaic bright solitons in lithium niobate and associated single-mode waveguides. *Applied physics letters*, 85(12), pp.2193-2195.
- Hao, L., Hou, C. and Wang, Q., 2014. Spatial solitons in biased two-photon photorefractive crystals with both the linear and quadratic electro-optic effect. *Optics & Laser Technology*, 56, pp.326-333.
- Hao, L., Wang, Q. and Hou, C., 2014. Spatial solitons in biased photorefractive materials with both the linear and quadratic electro-optic effects. *Journal of Modern Optics*, 61(15), pp.1236-1245.
- Hao, L., Hou, C., Wang, X., Wang, Q. and Mu, H., 2016. Coherently coupled bright-bright screening soliton pairs in biased centrosymmetric photorefractive crystals. *Optik*, 127(15), pp.5928-5934.
- Hou, C., Zhou, Z. and Sun, X., 2004. Manakov solitons in centrosymmetric photorefractive materials. *Optical Materials*, 27(1), pp.63-66.
- Imbrock, J., Heese, C. and Denz, C., 2009. Spatial photorefractive solitons with picosecond laser pulses. *Applied Physics B*, 95, pp.261-268.
- Jiang, Q., Su, Y., Nie, H., Ma, Z. and Li, Y., 2017. New type gray spatial solitons in two-photon photorefractive media with both the linear and quadratic electro-optic effects. *Journal of Nonlinear Optical Physics & Materials*, 26(01), p.1750006.

- Kartashov, Y.V., Torner, L. and Vysloukh, V.A., 2005. Diffraction management of focused light beams in optical lattices with a quadratic frequency modulation. *Optics express*, 13(11), pp.4244-4249.
- Katti, A., 2018. Bright screening solitons in a photorefractive waveguide. *Optical and Quantum Electronics*, 50(6), p.263.
- Katti, A., Yadav, R.A. and Prasad, A., 2018. Bright optical spatial solitons in photorefractive waveguides having both the linear and quadratic electro-optic effect. *Wave Motion*, 77, pp.64-76.
- Katti, A. and Yadav, R.A., 2018. Coupling effects for separate spatial solitons in a biased series centrosymmetric photorefractive crystal circuit considering grey solitons. *The European Physical Journal D*, 72, pp.1-11.
- Katti, A., 2019. Temporal behaviour of bright solitons in photorefractive crystals having both the linear and quadratic electro-optic effect. *Chaos, Solitons & Fractals*, 126, pp.23-31.
- Katti, A., 2020. Coupling of separate solitons in a series circuit of two photon photorefractive crystals exhibiting simultaneous quadratic and linear nonlinearities. *Optik*, 206, p.164212.
- Katti, A. and Katti, C.P., 2020. Gap solitons supported by an optical lattice in biased photorefractive crystals having both the linear and quadratic electro-optic effect. *Zeitschrift für Naturforschung A*, 75(9), pp.749-756.
- Katti, A., 2023. Bright optical spatial solitons in a photovoltaic photorefractive waveguide exhibiting the two photon photorefractive effect. *Revista Mexicana de Física*, 69(2 Mar-Apr), pp.021301-1.
- Katti, A., 2023. Manakov solitons in unbiased photorefractive materials with both the pyroelectric effect and photovoltaic effect. *Physics Letters A*, 458, p.128590.

- Keqing, L., Tiantong, T. and Yanpeng, Z., 2000. One-dimensional steady-state spatial solitons in photovoltaic photorefractive materials with an external applied field. *Physical Review A*, 61(5), p.053822.
- Keshavarz, A. and Kamranfard, M., 2011. One-dimensional optical dark screening photovoltaic–photorefractive solitons, soliton pairs and incoherent interaction between them in BaTiO₃ crystal. *Optik*, 122(3), pp.235-240.
- Królikowski, W. and Kivshar, Y.S., 1996. Soliton-based optical switching in waveguide arrays. *JOSA B*, 13(5), pp.876-887.
- Królikowski, W., Saffman, M., Luther-Davies, B. and Denz, C., 1998. Anomalous interaction of spatial solitons in photorefractive media. *Physical review letters*, 80(15), p.3240.
- Kumari, B., Katti, A. and Alvi, P.A., 2019, April. Incoherently coupled grey solitons in photorefractive multiple quantum well planar waveguides. In *AIP Conf. Proc.* (Vol. 2100, No. 1, p. 020135).
- LeVeque, R.J., 2007. *Finite difference methods for ordinary and partial differential equations: steady-state and time-dependent problems*. Society for Industrial and Applied Mathematics.
- Lu, K., Zhang, Y., Tian, N., Li, K., Zhang, Y., Zhang, X., Miao, C., Zhang, Y. and Xu, J., 2011. Multiple incoherent gray photorefractive spatial solitons. *Optical and quantum electronics*, 42, pp.277-284.
- Peccianti, M., Conti, C., Assanto, G., De Luca, A. and Umeton, C., 2002. All-optical switching and logic gating with spatial solitons in liquid crystals. *Applied Physics Letters*, 81(18), pp.3335-3337.
- Peccianti, M., Conti, C., Assanto, G., De Luca, A. and Umeton, C., 2004. Routing of anisotropic spatial solitons and modulational instability in liquid crystals. *Nature*, 432(7018), pp.733-737.

- Petrović, M., Jović, D., Belić, M., Schröder, J., Jander, P. and Denz, C., 2005. Two dimensional counterpropagating spatial solitons in photorefractive crystals. *Physical review letters*, 95(5), p.053901.
- Petter, J. and Denz, C., 2001. Guiding and dividing waves with photorefractive solitons. *Optics communications*, 188(1-4), pp.55-61.
- Popescu, S.T., Petris, A. and Vlad, V.I., 2013. Recording of self-induced waveguides in lithium niobate at 405 nm wavelength by photorefractive–pyroelectric effect. *Journal of Applied Physics*, 113(21).
- Ripai, A., Abdullah, Z., Syafwan, M. and Hidayat, W., 2021, April. Application of the split-step Fourier method in investigating a bright soliton solution in a photorefractive crystal. In *AIP Conference Proceedings* (Vol. 2331, No. 1). AIP Publishing.
- Ripai, A., Sutantyo, T.E., Abdullah, Z., Syafwan, M. and Hidayat, W., 2021, April. Effect of ansatz on soliton propagation pattern in photorefractive crystals. In *Journal of Physics: Conference Series* (Vol. 1876, No. 1, p. 012009). IOP Publishing.
- Safioui, J., Devaux, F. and Chauvet, M., 2009. Pyroliton: pyroelectric spatial soliton. *Optics express*, 17(24), pp.22209-22216.
- Shandarov, V., Kip, D., Wesner, M. and Hukriede, J., 2000. Observation of dark spatial photovoltaic solitons in planar waveguides in lithium niobate. *Journal of Optics A: Pure and Applied Optics*, 2(5), p.500.
- Tsarukyan, L., Badalyan, A. and Drampyan, R., 2022. Bending optical soliton-induced waveguide channels in a photorefractive LiNbO₃ crystal. *Applied Physics B*, 128(8), p.146.
- Wan, S., Wang, P.Y., Ma, R., Wang, Z.Y., Niu, R., He, D.Y., Guo, G.C., Bo, F., Liu, J. and Dong, C.H., 2023. Photorefractive-assisted self-emergence of dissipative Kerr solitons. *arXiv preprint arXiv:2305.02590*.

- Xin, F., Falsi, L., Pierangeli, D., Fusella, F., Perepelitsa, G., Garcia, Y., Agranat, A.J. and DelRe, E., 2022. Intense Wave Formation from Multiple Soliton Fusion and the Role of Extra Dimensions. *Physical Review Letters*, 129(4), p.043901.
- Xu, Z., Kartashov, Y.V. and Torner, L., 2006. Gap solitons supported by optical lattices in photorefractive crystals with asymmetric nonlocality. *Optics letters*, 31(13), pp.2027-2029.
- Yan, L.F., Jin, Q.L., Zhang, D. and Zhang, Y.J., 2011. Interactions of dark solitons in photovoltaic photorefractive crystals with diffusion nonlinearity. *Optics Communications*, 284(6), pp.1682-1685.
- Yang, J., 2004. Stability of vortex solitons in a photorefractive optical lattice. *New Journal of Physics*, 6(1), p.47.
- Zhan, K., Hou, C. and Pu, S., 2011. Temporal behavior of spatial solitons in centrosymmetric photorefractive crystals. *Optics & laser technology*, 43(7), pp.1274-1278.
- Zhan, K. and Hou, C., 2012. Gap solitons supported by optical lattices in biased centrosymmetric photorefractive crystals. *Optics communications*, 285(17), pp.3649-3653.
- Zhang, Z.X., Zhao, X.Y., Li, Y., Cui, H., Luo, Z.C., Xu, W.C. and Luo, A.P., 2020. Generation and manipulation of bright spatial bound-soliton pairs under the diffusion effect in photovoltaic photorefractive crystals. *Chinese Physics B*, 29(10), p.104208.
- Zhang, Y. and Jia, X., 2022. Dark spatial solitons sequence in the biased centrosymmetric photorefractive crystal. *Optoelectronics Letters*, 18(10), pp.601-605.
- Zhang, T. and Medina, L., 2023. Existence of Optical Vortex Solitons in Photorefractive Media. *arXiv preprint arXiv:2302.13151*.