Bibliography

[1] Alfvén H., 1978, Double Radio Sources and the New Approach to Cosmical Plasma Physics, Ap&SS, 54, 279

[2] Alfvén H. & Carlqvist P., 1978, Interstellar Clouds and the Formation of Stars, Ap&SS, 55, 487

[3] André P., Ward-Thompson D., and Barsony M., 1993, Submillimeter Continuum Observations of ρ Ophiuchi A: The Candidate Protostar VLA 1623 and Prestellar Clumps, ApJ, 406, 122

[4] Appenzeller I., 1967 A New Polarimeter for Faint Astronomical Objects, PASP, 79, 136

[5] Azzam R. M. A. and Bashara N. M., 1989 in : *Ellipsometry and Polarized Light* (Elsevier Science Publishers, The Netherlands)

[6] Barnard E. E., 1919, On the Dark Markings of the Sky with a Catalogue of 182 such Objects, ApJ, 49, 1

[7] Bertoldi F., 1989, The Photoevaporation of Interstellar Clouds I. Radiation-driven Implosion, ApJ, 346, 735

[8] Bertoldi F. and McKee C. F., 1990, The Photoevaporation of Interstellar Clouds II. Equilibrium Cometary Clouds, ApJ, 354, 529

[9] Bok B. J. and Reilly E. F., 1947, Small Dark Nebulae, ApJ, 105, 255

[10] Bok B. J., Cordwell C. S., & Cromwell R. H., 1971, in : *Dark Nebulae, Globules and Protostars,* ed. Lynds B. T., (Tucson: Univ. of Arizona Press), pp. 33

[11] Bourke T. L., Hyland A. R., Robinson G., 1995a, Studies of Star Formation in Isolated Small Dark Clouds - I. A Catalogue of Southern Bok Globules: Optical and *IRAS* properties, MNRAS, 276, 1052

[12] Brand P. W. J. L., Hawarden T. G., Longmore A. J., Williams P. M., Caldwell J. A. R., 1983, Cometary Globule 1, MNRAS, 203, 215

[13] Carlqvist P., 1988, Cosmic Electric Currents and the Generalized Bennett Relation, Ap&SS, 144, 73

[14] Carlqvist P., & Kristen H., 1997, Polarization Models of Filamentary Molecular Clouds, A&A, 324, 1115

[15] Clarke D., Stewart B. G., Schwarz H. E., Brooks A., 1983, The Statistical Behaviour of Normalized Stokes Parameters, A&A, 126, 260

[16] Clayton G. C., 1995, Ultraviolet Interstellar Linear Polarization II. The Wavelength Dependence, ApJ, 445, 947

[17] Clemens D. P. and Barvainis R., 1988, A Catalog of Small, Optically Selected Molecular Clouds: Optical, Infrared and Millimeter Properties, ApJS, 68, 257 (CB)

[18] Clemens D. P., João L. Y., and Heyer M. H., 1991, Bok Globules and Small Molecular Clouds: Deep *IRAS* Photometry and ^{12}CO Spectroscopy, ApJS, 75, 877

[19] Collet E., 1993, in : *Polarized Light Fundamentals and Applications,* ed. B. J. Thompson (Marcel Dekker, New York)

[20] Davis Jr. L., Greenstein J. L., 1951, The polarization of starlight by aligned dust grains, ApJ, 114, 206

[21] Deshpande M. S., Gadre D. V., 1994, in: Proceedings of the Indo-US Workshop on Array detectors and Image processing, eds. S. N. Tandon and A. N. Ramaprakash, IUCAA, INDIA, p. 237

[22] Dobashi K., Yonekura Y., Mizuno A., Fukui Y., 1992, ^{12}CO and ^{13}CO Observations of the Dark Cloud Complex near IC 5146, AJ, 104, 1525

[23] Dickman R. L. and Clemens D., P., 1983, A Gravitationally Stable Bok Globule, ApJ, 271, 143

[24] Elitzer M., 1996, Polarization of Astronomical Maser Radiation. III. Arbitrary Zeeman Splitting and Anisotropic Pumping, ApJ, 457, 415

[25] Elvius A. 1970, in: *Dark nebulae, Globules and Protostars*, ed. Lynds B. T. The University of Arizona Press, Tucson, p. 57

[26] Felten J. E., 1974, Polarization and Structure of the Crab Nebula, in: *Methods of Experimental Physics: Astrophysics,* eds. N. Carleton, Vol. 12, part A, Academic Press, p. 1014

[27] Gadre D., 1995, Load assembly code in 8052-Basic systems, EDN, Oct. 26, p. 188

[28] Geyer E. H. and Jockers K., 1993, Wide Field Cometary Polarimetry using a Novel Device, in : *IAU Working group on Wide-Field Imaging, Newsletter No. 3* ed. MacGillivray

[29] Goldreich P. Keeley D. A., Kwan J. Y., 1973, Astronomical Masers. II. Polarization Properties, ApJ, 179, 111

[30] Goodman A. A., Crutcher R. M., Heilas C., Myers P. C., Troland T. H., 1989, Measurement of Magnetic Field Strength in the Dark Cloud Barnard I, ApJ, 338, L61

[31] Goodman A. A., Bastein P., Myers P. C. & Ménard F., 1990, Optical Polarization Maps of Star-Forming Regions in Perseus, Taurus and Ophiuchus, ApJ, 359, 363

[32] Goodrich R. W., Miller J. S., 1995, Polarization clues to the structure of Broad Absorption Line Quasi-Stellar Objects, ApJ, 448, L73

[33] Hawarden T. G., Brand P. W. J. L., 1976, 'Cometary' Globules and the Structure of Gum Nebula, MNRAS, 175, 19P

[34] Herbig G. H., 1974, On the nature of the Small Dark Globules in the Rosette Nebula, PASP, 86, 604

[35] Herbst W. and Sawyer D. L., 1981, Results of a New Approach to Determining the Density Function in the Galactic Plane: The Local System, ApJ, 243, 935

[36] Heyer M. H., Vrba F. J., Snell R. L., Schloerb F. P., Strom S. E., Goldsmith P. F., Strom K. M., 1987, The Magnetic Evolution of the Taurua Molecular Clouds. I. Large-scale Properties ApJ, 321, 855

[37] Hildebrand R. H., 1988, Magnetic Fields and Stardust, QJRAS, 29, 327

[38] Hines D. C., Schmidt G. D., Smith P. S., Cutri R. M., Low F. J., 1995, The buried QSO in IRAS F15307+3252 and the nature of hyperluminous infrared sources, ApJ, 450, L1

[39] Hodapp K.-W., 1987, The Magnetic Field in Star-Forming Large Globules ApJ, 319, 842

[40] Jannuzi B. T., Smith P. S., Elston R., 1993, Optical Polarimetry and Photometry of X-ray selected BL Lacertae Objects, ApJS, 85, 265

[41] Jarrett T. H., Novak G., Xie T., Goldsmith P. F., 1994, Magnetic Field Structure in Monoceros R2, ApJ, 430, 743

[42] Joshi U. C., Kulkarni P. V., Bhatt H. C., Kulshrestha A. K., Deshpande M. R., 1985, Polarization Measurements of Stars in the Region of Bok Globule B5, MNRAS, 215, 275

[43] Kane B. D., Clemens D. P. and Myers P. C., 1994, A Search for Dense Gas in Quiescent Bok Globules, ApJ, 433, L49

[44] Kane B. D., Clemens D. P., Leach R. W., Barvainis R., 1995, Magnetic Fields Around Bok GLobules: CCD Polarimetry of CB 4, ApJ, 445, 269

[45] Kastner J. H., Weintraub D. A., 1994, Broken Symmetry : The Structure of the Dust Envelope of IRC +10216, ApJ, 434, 719

[46] Kenyon S. and Starrfield S., 1979, On the Structure of Bok Globules, PASP, 91, 271

[47] Kronberg P. P., 1994, Extragalactic Magnetic Fields, Rep. Prog. Phys., 57, 325

[48] Lada C. J., Lada E. A., Clemens D. P., Bally J., 1994 Dust Extinction and Molecular Gas in the Dark Cloud IC 5146 ApJ, 429, 694

[49] Landstreet J. D., 1992, Magnetic Fields at the Surfaces of Stars, A&A. Rev., 4, 35

[50] Lefloch B., Lazareff B., 1994, Cometary Globules I. Formation, Evolution and Morphology, A&A, 289, 559

[51] Leung C. M., Kutner M. L. and Mead K. N., 1982, On the Origin and Structure of Isolated Dark Globules, ApJ, 262, 583

[52] Mathewson D. L. and Ford V. L., 1970, Mem. RAS, 74, 139

[53] Mathis J. S., 1986, ApJ, 308, 281

[54] Matsumura M. & Seki M., 1996 Properties of Extinction and Polarization by Ellipsoidal Particles, in: *Polarimetry of the interstellar medium*, eds. Roberge W. G. and Whittet D. C. B., ASP Conf. Series, Vol. 97 pp. 63

[55] McGregor P. J., Harrison T. E., Hough J. H., Bailey J. A., 1994, Infrared Polarimetry in the Chameleon I Dark Cloud, MNRAS, 267, 755

[56] McLean I. S., 1985, in : *Star Forming Regions,* IAU Symp. 115, pp. 330 (Kluwer, Dordrecht)

[57] Minchin N. R., Hough J., H., McCall A., Burton M. G., McCaughrean M. J., Aspin C., Bailey J. A., Axon D. J., Sato S., 1991, Near-infrared imaging polarimetry of bipolar nebulae - I. The BN-Kl region of OMC-1, MNRAS, 248, 715

[58] Moore T. J. T., Yamashita, T., 1995, A Near-Infrared Reflection Nebula Associated with NGC 2024 FIR 4, ApJ, 440, 722

[59] Mouschovias T. Ch., 1976, Nonhomologous Contraction and Equilibria of Self-Gravitating Magnetic Interstellar Clouds Embedded in an Intracloud Medium: Star Formation II Results, ApJ, 207, 141

[60] Myers P. C. & Goodman A. A., 1988a, Evidence for magnetic and virial equilibrium in molecular clouds, ApJ, 326, 27

[61] Myers P. C. & Goodman A. A., 1988b, Magnetic Molecular Clouds: Indirect Evidence for Magnetic Support and Ambipolar Diffusion, ApJ, 329, 392

[62] Myers P. C. & Goodman A. A., 1991, On the Dispersion in Direction of Interstellar Polarization, ApJ, 373, 509 (MG)

[63] Ohman Y., 1939, On Some Observations made with a Modified Pickering Polarigraph, MNRAS, 99, 624

[64] Ostriker E. C., Shu F. H., 1995, Magnetocentrifugally Driven Flows from Young Stars and Disks. IV. The Accretion Funnel and Dead Zone, ApJ, 447, 813

[65] Patel N. A., Xie T., Goldsmith P. F., 1993, Cometary Globules in the Southeast Quadrant of the Rosette Nebula, ApJ, 413, 593

[66] Pospergelis M. M., 1965, The 'Taimur' Electronic Polarimeter, SvA-AJ, 9, 313

[67] Purcell E. M., 1979, Suprathermal Rotation of Interstellar Grains, ApJ, 231, 404

[68] Reipurth B., 1983, Star Formation in Bok Globules and Low-mass Clouds 1. The Cometary Globules in the Gum Nebula A&A, 117, 183

[69] Ryden B., S., 1996, The Shapes of Dense Cores and Bok Globules, ApJ, 471, 822

[70] Sandqvist Aa, 1976, Four more Cometary Globules in the Gum Nebula, MNRAS, 177, 69P

[71] Scarrott S. M., Warren-Smith R. F., Pallister W. S., Axon D. J., Bingham R. G., 1983, Electronographic Polarimetry: the Durham Polarimeter, MNRAS, 204, 1163

[72] Scarrott S. M., 1991, Optical polarization studies of astronomical objects, Vist. Astron., 34, 163

[73] Schneider S. and Elmegreen B. G., 1979, A Catalog of Dark Globular Filaments, ApJS, 41, 87

[74] Schneps M. H., Ho P. T. P., Barrett A. H., 1980, The Formation of Elephant-Trunk Globules in the Rosette Nebula: CO observations, ApJ, 240, 84

[75] Serkowski K., 1974, Polarization Techniques, in: *Methods of Experimental Physics: Astrophysics,* eds. N. Carleton, Vol. 12, part A, Academic Press, p. 361

[76] Serkowski K., 1975, Polarimeters for Optical Astronomy in: *Planets, Stars and Nebulae studied with photopolarimetry,* ed. T. Gehrels, The University of Arizona Press, Tucson, p. 135

[77] Serkowski K., Mathewson D. s., and Ford V. L., 1975, Wavelength Dependence of Interstellar Polarization and Ratio of Total to Selective Extinction, ApJ, 196, 261

[78] Shurcliff W. A., 1962, in : *Polarized Light - Production and Use,* (Harvard University Press, Cambridge, Massachusetts)

[79] Simmons J. F. L., Stewart B. G., 1984, Point and Interval Estimation of the True Unbiased Degree of Linear Polarization in the Presence of Low Signal-to-Noise Ratios, A&A, 142, 100

[80] Simmons J. F. L., Willis J. P., Newsam A. M., 1995, Polarization as a Tool for Gravitational Microlensing Surveys, A&A, 293, L46

[81] Sridharan T. K., 1992, Kinematics of the Cometary Globules in the Gum Nebula, JA&A, 13, 217

[82] Sridharan T. K., Bhatt H. C., Rajagopal Jayadev, 1996, Magnetic Fields in Cometary Globules - I. CG 22, MNRAS, 279, 1191

[83] Stenflo J. O., 1994, in : *Solar Magnetic Fields, Polarized Radiation Diagnostics,* (Kluwer, Dordrecht)

[84] Sugitani K., Fukui Y., Ogura K., 1991, A Catalog of Bright-rimmed Clouds with *IRAS* Point Sources: Candidates for Star Formation by Radiation-Driven Implosion. I. The Northern Hemisphere, ApJS, 77, 59

[85] Sugitani K., Ogura K., 1994, A Catalog of Bright-rimmed Clouds with *IRAS* Point Sources: Candidates for Star Formation by Radiation-Driven Implosion. II. The Southern Hemisphere, ApJS, 92, 163

[86] Tinbergen J., 1996, in : *Astronomical Polarimetry,* (Cambridge Univ. Press)

[87] Turner D. G., 1976, The Value of R in Monoceros, ApJ, 210, 65

[88] Vrba F. J., Coyne G. V., Tapia S., 1981, Observations of Grain and Magnetic Field Properties of the R Coronae Australis Dark Cloud, ApJ, 243, 489

[89] Walter D. M., Aspin C. A., McLean I. S., 1990, The exciting star in G35.2N, ApJ, 356, 544

[90] Wardle M., Königl A., 1993, The Structure of Protostellar Accretion Disks and the Origin of Bipolar Flows, ApJ, 410, 218

[91] Wang Y., Evans II N. J., Zhou S., Clemens D. P., 1995, Collapse Candidates among the Bok Globules, ApJ, 454, 217

[92] Weintraub D. A., Kastner J. H., Whitney B. A., 1995, In Search of HL Tauri, ApJ, 452, L141

[93] Whittet D. C. B., 1992a, in : *Dust in the Galactic Environment*, The Graduate Series in Astronomy, eds. Tayler R. J., and White R. E., (Institute of Physics Publishing, New York)

[94] Whittet D. C. B., Martin P. G., Hough J. H., Rouse M. F., Bailey J. A. and Axon D. J., 1992b, Systematic Variations in the Wavelength Dependence of Interstellar Linear Polarization, ApJ, 386, 562

[95] Wielenbinski R., 1992, Radio Astronomy Techniques of Observing Magnetic Fields : The Galaxy, in : *The Cosmic Dynamo,* eds. F. Krause, K. -H. Rädler, and G. Rüdiger, IAU Symp. 157, pp. 271 (Kluwer, Dordrecht)

[96] Wilking B. A., Lebofsky M. J., and Rieke G. H., 1982, The Wavelength Dependence of Interstellar Linear Polarization: Stars with Extreme Values of λ_{max}, AJ, 87, 695

[97] Wolstencroft R. D., Done C. J., Scarrott S. M., Scarrott R. M. J., 1995, Imaging Polarimetry of the Seyfert Galaxy IC 4329A, MNRAS, 276, 460

[98] Yun J. L., Clemens D. P., 1990, Star Formation in Small Globules: Bart Bok was correct!, ApJ, 365, L73

[99] Yun J. L., Clemens D. P., 1992, Discovery of outflows from young stellar objects in Bok globules, ApJ, 385, L21

[100] Yun J. L., Clemens D. P., 1994b, Outflows from Young Stellar Objects in Bok Globules: Maps, ApJS, 92, 145

[101] Yun J. L., Clemens D. P., 1994a, Near-Infrared Imaging Survey of Young Stellar Objects in Bok Globules, AJ, 108, 612

[102] Yun J. L., Moreira M. C., Torrelles J. M., Afonso J. M., Santos N. C., 1996, A Search for Radio Continuum Emission from Young Stellar Objects in Bok Globules, AJ, 111, 841