

Author Index to Volume 44

- Abdel-Raouf, M. A.—
See El Shabshiry, M. 677
- Afnan, I. R.—
 Resonances in few-body systems 201
- Allen, L. J.—
 The quantum mechanical inverse scattering problem at fixed energy and some recent applications 231
- Allen, T. J., and Tassie, L. J.—
 Dirac equation in the field of a charged cosmic string and in the field of a point charge with $Z > 137$ 585
- Alurkar, S. K.—
See Janardhan, P. 565
- Amos, K., Berge, L., Steward, C., and de Swiniarski, R.—
 Inelastic scattering from ^{20}Ne 217
- Amusia, M. Ya., and Kheifets, A. S.—
 How to explain the difference between (γ, e) and $(e, 2e)$ spectroscopic factors 293
- Baake, M., Delbourgo, R., and Jarvis, P. D.—
 Models for supersymmetric quantum mechanics 353
- Barker, F. C., and Kajino, T.—
 The $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ cross section at low energies 369
- Bass, S. D., Schreiber, A., Thomas, A. W., and Londregan, J. T.—
 Improved parton distributions from the quark model 363
- Bera, B.—
See Sarkar, S. 59
- Berge, L.—
See Amos, K. 217
- Bobra, A. D.—
See Janardhan, P. 565
- Brahde, R.—
 Lunisolar atmospheric tides. III 87
- Brajamani, S.—
See Mukherjee, K. K. 515
- Cahill, R. T.—
 On the importance of self-interaction in QCD 105
- Calabretta, M.—
 Effect of source morphology on thermal radio continuum spectra 441
- Chakraborty, B.—
See Sarkar, S. 59
- Chin, V. W. L., Newbery, S. M., Storey, J. W. V., and Theden, U.—
 The effect of sintering temperature on the barrier height of p-type PtSi Schottky diodes 67
- Choudhury, K. B.—
See Mukherjee, K. K. 515
- Collins, R. E., and Fischer-Cripps, A. C.—
 Design of support pillar arrays in flat evacuated windows 545
- Collins, R. E., Poladian, L., Pailthorpe, B. A., and McPhedran, R. C.—
 Heat conduction through support pillars in evacuated windows 73
- Darmann, F. A.—
See Hutton, D. R. 429
- Das, G. C., and Singh, K. I.—
 Cylindrical and spherical solitons at the critical density of negative ions in a generalised multicomponent plasma 523
- Davis, T. J.—
 Imperfect crystals and dynamical X-ray diffraction in the complex reflectance plane 693
- Delbourgo, R.—
See Baake, M. 353
- Delbourgo, R., Jarvis, P. D., and Warner, R. C.—
 Models for fermion generations based on five fermionic coordinates 135
- Derlet, P. M.—
See Perlman, H. S. 33
- de Swiniarski, R.—
See Amos, K. 217
- Dodd, L. R.—
 Soliton matter 161
- Dreizler, R. M.—
See Whelan, C. T. 39
- El Bakry, S. Y.—
See El-Shabshiry, M. 677
- Elford, M. T.—
See England, J. P. 647
- El-Shabshiry, M., El Bakry, S. Y., Moussa, A. H., and Abdel-Raouf, M. A.—
 Positron-lithium inelastic scattering with polarisation potentials 677
- England, J. P., and Elford, M. T.—
 Momentum transfer cross section for electrons in mercury vapour derived from drift velocity measurements in mercury vapour-gas mixtures 647
- Fischer-Cripps, A. C.—
See Collins, R. E. 545

- Frank, M. R.—
See Tandy, P. C. 181
- Gal, M.—
See Shwe, C. 705
- Gorman, R. M., and McKellar, B. H. J.—
 Quark mass thresholds in quarkonium systems 619
- Granek, H., and McKellar, B. H. J.—
 Kinetic equation with neutrino oscillations in the early universe 591
- Green, H. S., and Trifftet, T.—
 Quantum mechanics, real and artificial intelligence 323
- Hansen, J.—
See Whelan, C. T. 39
- Harlin, A. F.—
See Perlman, H. S. 33
- Hay, H. J., and Treacy, P. B.—
 Excitation of swift heavy ions in foil targets. V. Production of Rydberg states 397
- Henry, B. I.—
 Integrability of low particle-number models for solids 1
- Hunstead, R. W.—
 Position and flux density calibration at Molonglo 743
- Hunter, B. A., Town, S. L., Matthews, D. N., Russell, G. J., and Taylor, K. N. R.—
 Growth and properties of large single crystals of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ from $\text{BaCuO}_2/\text{CuO}$ flux 421
- Hutton, D. R., Darmann, F. A., and Troup, G. J.—
 Electron spin resonance of $\text{V}^{4+}(\text{VO}^{2+})$ in beryl 429
- Janardhan, P., Alurkar, S. K., Bobra, A. D., and Slee, O. B.—
 Enhanced radio source scintillation due to Comet Austin (1989cl) 565
- Jarvis, P. D.—
See Baake, M. 353
 Delbourgo, R. 135
- Jauncey, D. L.—
 VLBI in Australia—A review 785
- Kajino, T.—
See Barker, F. C. 369
- Kazbegi, A. Z., Machabeli, G. Z., and Melikidze, G. I.—
 The nature of pulsar subpulse drift 573
- Khan, M.—
See Sarkar, S. 59
- Kheifets, A. S.—
See Amusia, M. Ya. 293
- Londergan, J. T.—
See Bass, S. D. 363
- McGann, B. T., and Robson, R. E.—
 Scattering of HF radio waves from the sea: A review of the theory based upon a simplified model 459
- Machabeli, G. Z.—
See Kazbegi, A. Z. 573
- McKellar, B. H. J.—
 Relativistic bound states 149
See Gorman, R. M. 619
 Granek, H. 591
- McPhedran, R. C.—
See Collins, R. E. 73
- Matthews, D. N.—
See Hunter, B. A. 421
- Mazumdar, P. S.—
See Mukherjee, K. K. 515
- Melikidze, G. I.—
See Kazbegi, A. Z. 573
- Mills, B. Y.—
 Origins of the Molonglo Radio Observatory—The Cross and the MOST 719
- Moussa, A. H.—
See El-Shabshiry, M. 677
- Mukherjee, K. K., Singh, N. R., Choudhury, K. B., Mazumdar, P. S., and Brajmani, S.—
 Ground state positronium formation cross sections for scattering of positrons from Li 515
- Newbery, S. M.—
See Chin, V. W. L. 67
- Nygaard, K. J.—
 Experimental study of quantum structures in solids 315
- Pailthorpe, B. A.—
See Collins, R. E. 73
- Perlman, H. S., Troup, G. J., Harlin, A. F., and Derlet, P. M.—
 Quantum electrodynamic processes in laser beams focussed by lenses with $f \geq 1$ 33
- Poladian, L.—
See Collins, R. E. 73

- Ratnavelu, K.—
 Positron impact ionisation of H and He atoms: The continuum model 265
- Robertson, J. G.—
 The MOST and other radio telescopes 729
- Robson, R. E.—
 Transport phenomena in the presence of reactions: Definition and measurement of transport coefficients 685
See McGann, B. T. 459
- Roessler, J.—
 Application of Melnikov's method to the reduced KdV equation 15
 Structural stability of perturbed mKdV solitons 495
- Rowe, E. T.—
 Feynman rules for magnetised spin-0 bosons 335
- Russell, G. J.—
See Hunter, B. A. 421
- Sarkar, S., Bera, B., Khan, M., and Chakraborty, B.—
 Lateral and axial magnetisation in the inverse Faraday effect for the interaction of waves in plasma 59
- Sarma, S. B. S. S.—
 Energy dissipation rates of turbulence with an airborne microwave refractometer 435
- Schilizzi, R. T.—
 Compact structure in continuum sources 771
- Schreiber, A.—
See Bass, S. D. 363
- Shaver, P. A.—
 Radio surveys and large scale structure 759
- Shwe, C., and Gal, M.—
 Characterisation of semiconductors by differential reflectance spectroscopy 705
- Singh, K. I.—
See Das, G. C. 523
- Singh, N. R.—
See Mukherjee, K. K. 515
- Sperber, D., Srinivas, S., and Zielinska-Pfabé, M.—
 Nuclear equation of state as determined by the quantum virial expansion 639
- Srinivas, S.—
See Sperber, D. 639
- Stelbovics, A. T.—
 Pseudo-state close coupling in electron-atom collisions 241
- Steward, C.—
See Amos, K. 217
- Storer, R. G.—
 Structure of quantum fluids at nonzero temperature 305
- Storey, J. W. V.—
See Chin, V. W. L. 67
- Tandy, P. C., and Frank, M. R.—
 Composite mesons in self-confining chiral solitons 181
- Tassie, L. J.—
See Allen, T. J. 585
- Taylor, K. N. R.—
See Hunter, B. A. 421
- Teubner, P. J. O.—
 Electron scattering from copper 259
- Theden, U.—
See Chin, V. W. L. 67
- Thomas, A. W.—
 Chiral corrections for lattice QCD 173
See Bass, S. D. 363
- Town, S. L.—
See Hunter, B. A. 421
- Treacy, P. B.—
See Hay, H. J. 397
- Triffet, T.—
See Green, H. S. 323
- Troup, G. J.—
See Hutton, D. R. 429
 Perlman, H. S. 33
- Vakser, A. I.—
 Inhomogeneously heated electron thermal bottleneck in semiconductors 535
- Walters, H. R. J.—
See Whelan, C. T. 39
- Warner, R. C.—
See Delbourgo, R. 135
- Weigold, A. M.—
 Model investigation of a soft X-ray photoionisation laser 271
- Weigold, E.—
 The development of electron momentum spectroscopy 277
- Whelan, C. T., Walters, H. R. J., Hansen, J., and Dreizler, R. M.—
 High energy electron impact ionisation of H(1s) in coplanar asymmetric geometry 39
- Williams, G. R. J.—
 Nonlinear susceptibilities of conjugated organic systems: Fused-ring oligomers 299
- Zielinska-Pfabé, M.—
See Sperber, D. 639

