

Publications of G.E. Brown

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1 The Six Most Important Publications Prior to 2000

1. G.E. Brown and D.G. Ravenhall
On the Interaction of Two Electrons. *Proc. Roy. Soc. A*208 (1951) 552.
2. G.E. Brown and M. Bolsterli
Dipole State in Nuclei. *Phys. Rev. Lett.* 3 (1959) 472.
3. T.T.S. Kuo and G.E. Brown
Structure of Finite Nuclei and the Free Nucleon-Nucleon Interaction, *Nucl. Phys.* 85 (1966) 40.
4. H.A. Bethe, G.E. Brown, J. Applegate and J.M. Lattimer
Equation of State in the Gravitational Collapse of Stars. *Nucl. Phys.* A324 (1979) 487.
5. G.E. Brown and M. Rho
Scaling Effective Lagrangian in Dense Medium. *Phys. Rev. Lett.* 66 (1991) 2720.
6. H.A. Bethe and G.E. Brown
Evolution of Binary Compact Objects That Merge. *Ap. J.* 506 (1998) 780.

2 Publications during 1985 - 1999

★ 201 unlisted publications before 1985.

202. H. A. Bethe and G. E. Brown
How a Supernova Explodes.
Scientific American, May 1985, p. 60.
203. A. Jackson, A. D. Jackson, G. E. Brown, A. S. Goldhaber and L. C. Castillejo
A Modified Skyrmion.
Phys. Lett. **154B** (1985) 101.
204. G. E. Brown
Foundations of the Shell Model.
Proc. of the Nuclear Shell Models Symposium in honor of the 60th Birthday of Igal Talmi, Drexel University, Oct. 31–Nov. 3, 1984, eds. D. H. Feng, M. Vallieres and B. H. Wildenthal (World Scientific, Singapore, 1985), p. 338.

205. H. Mütter, C. A. Engelbrecht and G. E. Brown
Nuclear Physics in Colourful Worlds.
Nucl. Phys. **A462** (1987) 701.
206. T. Erikson, K. F. Quadar and G. E. Brown
A Coexistence Model for ^{18}F .
Nucl. Phys. **A465** (1987) 123.
207. G. E. Brown and E. Osnes
The Compression Modulus of Nuclear Matter.
Phys. Lett. **159B** (1985) 223.
208. I. Zahed and G. E. Brown
The Skyrme Model.
Phys. Reports, **142** (1986) 1-102.
209. G. E. Brown, E. Osnes and M. Rho
Nucleon–Nucleon Effective Spin–Isospin Interaction.
Phys. Lett. **163B** (1985) 41.
210. I. Zahed and G. E. Brown
Low–Energy Phenomenology with Skyrmions.
Lecture Notes, Los Alamos Summer School, June 2–15, 1985.
211. G. E. Brown and M. Rho
Towards a Basis in QCD for Nuclear Physics.
Comm. Nucl. Part. Phys. **6** (1986) 245.
212. S. O. Backman, G. E. Brown and J. A. Niskanen
The Nucleon–Nucleon Interaction and the Nuclear Many–Body Problem.
Phys. Rep. **124** (1985) 1.
213. G. E. Brown
Fundamentals and the Future of Nuclear Physics.
Nucl. Phys. **A446** (1985) 3c.
214. M. Prakash, C. Guet and G. E. Brown
Pion Production in Peripheral Nucleus–Nucleus Collisions.
Nucl. Phys. **A447** (1985) 625.
215. E. Wüst, G. E. Brown, A. D. Jackson and L. Vepstas
Properties of Six Quark Clusters in the Topological Chiral Soliton Model.
Nucl. Phys. **A456** (1986) 621.

216. D. Klabucar and G. E. Brown
Two-Phase Model with Vector Meson Stabilization.
Nucl. Phys. **A454** (1986) 589.
217. G. E. Brown, M. Rho and W. Weise
Phenomenological Delineation of the Quark-Gluon Structure from Nucleon
Electromagnetic Form Factors.
Nucl. Phys. **A454** (1986) 669.
218. G. E. Brown, W. Weise, G. Baym and J. Speth
Relativistic Effects in Nuclear Physics.
Comm. Nucl. Part. Phys. **17** (1987) 39.
219. G. E. Brown and Mannque Rho
The Chiral Bag.
Comm. Nucl. Part. Phys. **18** (1988) 1.
220. T. L. Ainsworth, E. Baron, G. E. Brown, J. Cooperstein and M. Prakash
The Equation of State of Dense Nuclear Matter.
Nucl. Phys. **A464** (1987) 740.
221. G. E. Brown, H. Q. Song and R. K. Su
Roper Resonance and πN Phase Shift in the Skyrme Model with Defect.
Nucl. Phys. **A458** (1986) 573.
222. G. E. Brown
The Relativistic Atomic Many-Body Problem.
Physica Scripta **36** (1987) 71.
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Cold Nuclear Matter at High Densities.
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Stars of Strange Matter?
Nucl. Phys. **A462** (1987) 791.
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Fermi Liquid Theory and the Properties of UPt_3 .
Phys. Rev. Lett. **57** (1986) 1955.

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Strongly Interacting Fermions
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Momentum and Temperature Dependence of the Equation of State in Heavy Ion Collisions.
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What is a Realistic Picture of Hadrons?
Proceedings of PANIC, Kyoto, Japan, April 20–24, 1987. Nucl. Phys. **A478** (1988) 79c.
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Strangeness Condensation and “Clearing” of the Vacuum.
Phys. Lett. **192B** (1987) 273.
231. I. Zahed and G. E. Brown
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Z. Phys. A (1990).
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Proceedings of the 1987 International Workshop on Low Energy Effective Theory of QCD, Nagoya, April 13–14, 1987.
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The Nucleon–Nucleon Interaction Through Boson Exchange; Medium Dependencies.
Prog. Theor. Phys. Supp. (Japan) **91** (1987) 85.
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Prog. Theor. Phys. Supp. (Japan) **91** (1987) 92.
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Physics Reports **163** (1988) 167.

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Type II Supernovae from Prompt Explosions.
Phys. Rev. Lett. **59** (1987) 736.
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Topological Chiral Bags in a Baryonic Environment.
Nucl. Phys. **A468** (1987) 450.
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Convection in Supernova Theory.
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Phys. Rev. D **37** (1988) 2042.
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Missing Strength in Longitudinal Electron Response and γ -Scaling
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Heavy Ion Collisions at Bevelac Energies
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Phys. Rev. C (Brief Report) **40** (1989) 1830.
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Proton-Nucleus Scattering and the Swelling of Nucleons in the Nucleus
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Proton Spin, Axial Anomaly and the Cheshire Cat Principle
Nucl. Phys. **A504** (1989) 829.
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Nuclear Physics and the Universe
Proc. 1989 Int. Nucl. Phys. Conf., Sao Paulo, Brazil.
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Electron Capture and β Decay in Presupernovae Stars
Ap. J. **362** (1990) 241.
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In Medium Stiffening of the Nucleon–Nucleon Spin–Isospin Interaction
Phys. Lett. **B237** (1990) 3.
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Final State Interactions in K Meson Decays
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Matter Under Extreme Conditions
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tional Laboratory, March 5–7, 1990.
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Strangeness Production in Relativistic Ion Collisions
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Photon Production Through A_1 Resonances in High Energy Heavy–Ion Collisions
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Equation of State and the Physics of Stellar Collapse
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A Scenario for a Large Number of Low Mass Black Holes in the Galaxy
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