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E. Ambler, Methods of Nuclear Orientation <i>Progress in Cryogenics</i> , Heywood and Co. London, 1960, pp. 235-280	1
M.E. Rose, On the Production of Nuclear Polarization <i>The Physical Review</i> , Vol. 75, p. 214 (1949) . . .	49
C.J. Gorter, A New Suggestion for Aligning Certain Atomic Nuclei <i>Physica</i> , Vol. 14, p. 504 (1948)	50
B. Bleaney, Hyperfine Structure in Paramagnetic Salts and Nuclear Alignment <i>The Philosophical Magazine</i> , Vol. 42, pp. 441-458 (1951)	51
R.V. Pound, On the Spatial Alignment of Nuclei <i>The Physical Review</i> , Vol. 76, p. 1410 (1949) . .	69
G.R. Khutsishvili, Polarization of the Nuclei of Ferromagnetic Atoms <i>Journal of Experimental and Theoretical Physics (USSR)</i> , Vol. 2, p. 744 (1955)	70
W. Marshall, Orientation of Nuclei in Ferromagnets <i>The Physical Review</i> , Vol. 110, pp. 1280-1285 (1958)	71
A. Kastler, On the Possibility of Orienting Atomic Nuclei by a Double Resonance Method <i>Comptes rendus</i> , Vol. 233, pp. 1444-1446 (1951)	77
A.W. Overhauser, Polarization of Nuclei in Metals <i>The Physical Review</i> , Vol. 92, pp. 411-415 (1953)	80
J. Korringa, Orientation of Nuclei by Saturation of Paramagnetic Resonance <i>The Physical Review</i> , Vol. 94, p. 1388 (1954) . .	85
A. Abragam, Overhauser Effect in Nonmetals <i>The Physical Review</i> , Vol. 98, pp. 1729-1735 (1955)	86
G. Feher, Method of Polarizing Nuclei in Paramagnetic Substances <i>The Physical Review</i> , Vol. 103, pp. 500-501 (1956)	93
C.D. Jeffries, Polarization of Nuclei by Resonance Saturation in Paramagnetic Crystals <i>The Physical Review</i> , Vol. 106, pp. 164-165 (1957)	95
D. Pines, J. Bardeen and C.P. Slichter, Nuclear Polarization and Impurity-State Spin Relaxation Processes in Silicon <i>The Physical Review</i> , Vol. 106, pp. 489-498 (1957)	97
A. Abragam and W.G. Proctor, A New Method for Dynamic Polarization of Atomic Nuclei in Solids <i>Comptes rendus</i> , Vol. 242, pp. 1720-1722 (1956)	107
W. A. Barker, Dynamic Nuclear Polarization <i>Reviews of Modern Physics</i> , Vol. 34, pp. 173-185 (1962)	110

N. Kurti, F.N.H. Robinson, F. Simon and D.A. Spohr, Nuclear Cooling Nature, Vol. 178, pp. 450-453 (1956)	123	S.H. Hanauer, J.W.T. Dabbs, L.D. Roberts and G.W. Parker, Angular Distribution of Alpha Particles Emitted by Orientated Np^{237} Nuclei The Physical Review, Vol. 124, pp. 1512-1517 (1961)	223
J.W.T. Dabbs, L.D. Roberts and S. Bernstein "Brute Force" Polarization of In^{115} Nuclei; Angular Momentum of 1.458 - ev Neutron Resonance The Physical Review, Vol. 98, pp. 1512-1513 (1955)	131	L.D. Roberts, F.J. Walter, J.W.T. Dabbs, G.W. Parker and J.O. Thomson Fission Fragments from Orientated U^{233} and U^{235} Proceedings of the International Conference on Nuclear Structure, Kingston, 1960, pp. 884-886	229
A. Stolovy, Spin States Associated with Neutron Resonances in In^{115} The Physical Review, Vol. 118, pp. 211-216 (1960)	133	C.S. Wu, E. Ambler, R.W. Hayward, D.D. Hoppes and R.P. Hudson, Experimental Test of Parity Conservation in Beta Decay The Physical Review, Vol. 105, pp. 1413-1413 (1957)	232
E. Ambler, M.A. Grace, H. Halban, N. Kurti, H. Durand, C.E. Johnson and H.R. Lemmer, Nuclear Polarization of Cobalt 60 The Philosophical Magazine, Vol. 44, pp. 216-218 (1953)	139	E. Ambler, R.W. Hayward, D.D. Hoppes and R.P. Hudson, Beta-Gamma Correlations from Polarized Manganese-52 The Physical Review, Vol. 110, pp. 787-789 (1958)	234
M.A. Grace, C.E. Johnson, N. Kurti, R.G. Scurlock and R.T. Taylor, Nuclear Orientation and the Hyperfine Structure Coupling in Cobalt Metal The Philosophical Magazine, Vol. 4, pp. 948-957 (1959)	142	R.W. Bauer, M. Deutsch, G.S. Mutchler and D.G. Simons, Nuclear Orientation of Mn^{54} and Mn^{52m} The Physical Review, Vol. 120, pp. 946-951 (1960)	237
S. Bernstein, L.D. Roberts, C.P. Stanford, J.W.T. Dabbs and T.E. Stephenson, Interaction of Polarized Neutrons with Polarized Mn^{55} Nuclei The Physical Review, Vol. 94, pp. 1243-1251 (1954)	152	J.M. Daniels, J.C. Giles and M.A.R. LeBlanc Nuclear Orientation in Antiferromagnetic Single Crystals Canadian Journal of Physics, Vol. 36, pp. 53-64 (1958)	243
W.J. Huiskamp, M.J. Steenland, A.R. Miedema, H.A. Tolhoek and C.J. Gorter, Measurements of the Anisotropy of Gamma Radiation Emitted by Orientated ^{52}Mn Nuclei Physica, Vol. 22, pp. 587-594 (1956)	161	N. Kurti, The Determination of the Hyperfine Coupling in Ferromagnetic Metals by Nuclear Orientation and Low Temperature Specific Heats Le Journal de Physique et Le Radium, Vol. 20, pp. 141-144 (1959)	255
W.J. Huiskamp, A.N. Diddens, J.C. Severiens, A.R. Miedema and M.J. Steenland, Anisotropy and Polarization of Gamma Rays Emitted by Orientated ^{52}Mn Nuclei Physica, Vol. 23, pp. 605-621 (1957)	169	C.V. Heer and R.A. Erickson, Hyperfine Coupling Specific Heat in Cobalt Metal The Physical Review, Vol. 108, pp. 896-897 (1957)	259
H. Postma, A.R. Miedema and M.C. Eversdijk Smulders, Angular Distribution and Linear Polarization of Gamma Rays from Aligned ^{166m}Ho Nuclei Physica, Vol. 25, pp. 671-687 (1959)	186	T.R. Carver and C.P. Slichter, Polarization of Nuclear Spins in Metals The Physical Review, Vol. 92, p. 212 (1953)	261
C.E. Johnson, J.F. Schooley and D.A. Shirley, Nuclear Orientation of Iodine by Electric hfs Alignment The Physical Review, Vol. 120, pp. 1777-1780 (1960)	203	H.G. Beljers, L. van der Kint and J.S. van Wieringer, Overhauser Effect in a Free Radical The Physical Review, Vol. 95, p. 1683 (1954)	262
G.R. Bishop, M.A. Grace, C.E. Johnson, A.C. Knipper H.R. Lemmer, J. Perez y Jorba and R.G. Scurlock, The Nuclear Orientation of Cobalt 57 The Philosophical Magazine, Vol. 46, pp. 951-956 (1955)	207	T.R. Carver and C.P. Slichter, Experimental Verification of the Overhauser Nuclear Polarization Effect The Physical Review, Vol. 102, pp. 975-980 (1956)	263
G.R. Bishop, M.A. Grace, C.E. Johnson, A. C. Knipper, H.R. Lemmer, J. Perez y Jorba and R.G. Scurlock, The Nuclear Orientation of Cobalt 57 The Philosophical Magazine, Vol. 46, pp. 951-956 (1955)	207	M. Abraham, R. W. Kedzie and C.D. Jeffries, X-Ray Anisotropy of Co^{60} Nuclei Polarized by Paramagnetic Resonance Saturation The Physical Review, Vol. 106, pp. 165-166 (1957)	269
E. Ambler and R.P. Hudson, Alignment of Cerium-141 and Neodymium-147 Nuclei The Physical Review, Vol. 97, pp. 1212-1221 (1955)	213		

C.D. Jeffries, Dynamic Orientation of Nuclei by Forbidden Transitions in Paramagnetic Resonance <u>The Physical Review</u> , Vol. <u>117</u> , pp. 1056- 1069	271
M. Abraham, C.D. Jeffries and R.W. Kedzie, Dynamic Nuclear Orientation of Co^{60} <u>The Physical Review</u> , Vol. <u>117</u> , pp. 1070- 1074 (1960)	285
G. Feher, C.S. Fuller and E.A. Gere, Spin and Magnetic Moment of P^{32} by the Electron Nuclear Double-Resonance Technique <u>The Physical Review</u> , Vol. <u>107</u> , pp. 1462- 1463 (1957)	290
F.M. Pipkin and J. W. Culvahouse, Radio- Frequency Orientation of As^{76} <u>The Physical Review</u> , Vol. <u>109</u> , pp. 1423- 1439 (1958)	292
G.R. Khutsishvili, On the Nuclear Orientation Associated with a Saturated Forbidden Resonance and with Double Resonance <u>Journal of Experimental and Theoretical Physics (USSR)</u> , Vol. <u>11</u> , pp. 679-682 (1960)	309
A. Simon, M.E. Rose and J.M. Jauch, Polari- zation and Alignment of Nuclei <u>The Physical Review</u> , Vol. <u>84</u> , pp. 1155- 1159 (1951)	313
M.E. Rose, Statistical Tensors for Orientated Nuclei <u>The Physical Review</u> , Vol. <u>108</u> , pp. 362- 365 (1957)	318