

Ron William Nielsen

(aka Jan Nurzynski)

List of Publications

- Budzanowski, A., Grotowski, K., Niewodniczanski, H., & **Nurzynski, J.** (1960). La Polarisation des Neutrons de la Reaction de Stripping $^{12}\text{C}(\text{d}, \text{n})^{13}\text{N}$. *Le Journal de Physique at le Radium*, 21, 366-368; also in *Bull. Acad. Pol. Sci.*, 7, 583-587 (1959).
- Budzanowski, A., Grotowski, K., Niewodniczanski, H., **Nurzynski, J.**, & Slapa, M. (1961). The Polarization of Neutrons from the Stripping of Deuterons on ^{12}C . *Helv. Phys. Acta Suppl.*, 6, 215-216.
- Niewodniczanski, H., **Nurzynski, J.**, & Wilczynski (1962). Elastic and Inelastic Scattering of 12.8 MeV Deuterons on ^{27}Al Nuclei. *IFJ Report No. 204*, and 1963 *Proc. Int. Symp. on Dir. Inter. and Nucl. Reaction Mechanisms*, Padua, p. 956.
- Freindl, L., Niewodniczanski, H., **Nurzynski, J.**, Slapa, M., & Strzalkowski, A. (1963). Elastic Scattering of 13 MeV Deuterons on Some Light Nuclei. *Acta Physica Polonica*, 23, 619-628; also in *Proc. Rutherford Jubilee Conf.*, Manchester, p. 529-530 (1961)
- Niewodniczanski, H., **Nurzynski, J.**, & Strzalkowski, A. (1963) Diffusion Elastique et Inelastique de Deutons de 12.8 MeV sur le Noyau ^{28}Si et Excitation du Coeur dans le Noyau ^{27}Al , *Le Journal de Physique*, 24, 944-947. DOI: <http://dx.doi.org/10.1051/jphys:019630024011094400>; also in *IFJ Report No. 263*, 1963.
- Niewodniczanski, H., **Nurzynski, J.**, Strzalkowski, A, Wilczynski, J., Rook, J. R., & Hodgson, P. E. (1964). Elastic and Inelastic Scattering of 12.8 MeV Deuterons by ^{27}Al Nuclei. *Nuclear Physics*, 55, 386-396. DOI: [http://dx.doi.org/10.1016/0029-5582\(64\)90161-0](http://dx.doi.org/10.1016/0029-5582(64)90161-0)
- Bray, K. H., **Nurzynski, J.**, & Satchler, G. R. (1965). The Elastic Scattering of 5.5-10.0 MeV ^3He -particles by ^{27}Al Nuclei. *Nuclear Physics*, 67, 417-427. DOI: [http://dx.doi.org/10.1016/0029-5582\(65\)90821-7](http://dx.doi.org/10.1016/0029-5582(65)90821-7)
- Nurzynski, J.** (1966). A Conversion Function for Calculating Elastic Scattering Angular Distributions. *Nuclear Instruments and Methods*, 41, 89-92. DOI: [http://dx.doi.org/10.1016/0029-554X\(66\)90343-0](http://dx.doi.org/10.1016/0029-554X(66)90343-0)
- Nurzynski, J.** (1966). Isotopic-spin Effects in Elastic Scattering. *Australian Journal of Science*, 29, 93-96.
- Nurzynski, J.** (1966). Polarization Phenomena for Spin-1/2 and Spin-1 Particles. *Australian Journal of Science*, 29, 119-124.
- Nurzynski, J.** (1966). Some Proposals for Experiments on Elastic Scattering. *Australian Journal of Science*, 29, 153-158.
- Bray, K. H., **Nurzynski, J.**, & Bourke, W. P. (1966). Some Anomalies in the Reaction $^{16}\text{O}(\text{}^3\text{He}, \alpha_0)^{15}\text{O}$, *Physics Letters*, 21, 536-537. DOI: [http://dx.doi.org/10.1016/0031-9163\(66\)91290-X](http://dx.doi.org/10.1016/0031-9163(66)91290-X)

- Niewodniczanski, H., **Nurzynski, J.**, Strzalkowski, & Satchler, G. R. (1966). The $^{40}\text{Ca}(\text{d}, \text{d})$, (d, d) and (d, p) Reactions with 12.8 MeV Deuterons. *Physical Review*, *146*, 799-803. DOI: <http://dx.doi.org/10.1103/PhysRev.146.799>
- Bray, K. H., & **Nurzynski, J.** (1967). States in Neon-21 near 3 MeV. *Nature*, *215*, 501-502. DOI: <http://dx.doi.org/10.1038/215501b0>
- Nurzynski, J.**, Bray, K. H., & Robson, B. A. (1968). The $^{27}\text{Al}(\text{}^3\text{He}, \alpha)^{26}\text{Al}$ Reaction at 10 MeV Bombarding Energy. *Nuclear Physics*, *A107*, 581-592. DOI: [http://dx.doi.org/10.1016/0375-9474\(68\)90785-9](http://dx.doi.org/10.1016/0375-9474(68)90785-9)
- Bray, K. H., **Nurzynski, J.**, & Bourke, W. P. (1968). Optical Model Ambiguities for $^{22}\text{Ne}(\text{}^3\text{He}, \text{}^3\text{He})^{22}\text{Ne}$ Elastic Scattering at 10 MeV. *Nuclear Physics*, *A114*, 309-320. DOI: [http://dx.doi.org/10.1016/0375-9474\(68\)90356-4](http://dx.doi.org/10.1016/0375-9474(68)90356-4)
- Bray, K. H., & **Nurzynski, J.** (1969). Energy Dependence of the $^{16}\text{O}(\text{}^3\text{He}, \text{}^3\text{He})^{16}\text{O}$ and the $^{16}\text{O}(\text{}^3\text{He}, \alpha_0)^{15}\text{O}$ Angular Distributions in the Range 9.8-11.7 MeV. *Nuclear Physics*, *A127*, 622-634.
- Baugh, D. J., **Nurzynski, J.**, & Osman, C. H. (1969). The Spin of the 2.78 MeV State in ^{19}Ne . *Australian Journal of Physics*, *22*, 555-558. DOI: <http://dx.doi.org/10.1071/PH690555>
- Bray, K. H., & **Nurzynski, J.** (1969). The Reaction $^{28}\text{Si}(\text{}^3\text{He}, \alpha)^{27}\text{Si}$ at $E(\text{}^3\text{He}) = 12$ MeV. *Nuclear Physics*, *A130*, 41-48. DOI: [http://dx.doi.org/10.1016/0375-9474\(69\)90957-9](http://dx.doi.org/10.1016/0375-9474(69)90957-9)
- Nurzynski, J.** (1969). Computer Program for Unfolding Gaussian Distributions. *ANU Report, ANU-P/447*.
- Nurzynski, J.** (1969). Experiments with Polarized Deuteron Beams. *Australian Journal of Science*, *31*, 422-424.
- Nurzynski, J.** (1969). Differential Cross-Sections for the Reaction $^{26}\text{Mg}(\tau, \alpha)^{25}\text{Mg}$ Measured at $E_\tau = 12.2$ MeV. *Report ANU-P/454*.
- Nurzynski, J.** (1970). The Optical Model for Low Energy Helions Scattered from ^{16}O Nuclei. *Nuclear Physics*, *A133*, 23-32. DOI: [http://dx.doi.org/10.1016/0375-9474\(69\)90446-1](http://dx.doi.org/10.1016/0375-9474(69)90446-1)
- Nurzynski, J.** (1970). The Dependence of the Spectroscopic Factors on Parameters of Distorting Potentials for the Reaction $^{26}\text{Mg}(\tau, \alpha)^{25}\text{Mg}$, *Nuclear Physics*, *A141*, 257-272. DOI: [http://dx.doi.org/10.1016/0375-9474\(70\)90846-8](http://dx.doi.org/10.1016/0375-9474(70)90846-8)
- Nurzynski, J.** (1970). Experiments (${}^3\text{He}, \alpha$) Reaction and the Elastic Scattering of ${}^3\text{He}$ -particles. *Report ANU-P/369*.
- Rosalky, D. M., Baugh, D. J., **Nurzynski, J.**, & Robson, B. A. (1970). j -Dependence of $\ell = 1$ Transitions in the $^{54}\text{Cr}(\text{d}, \text{p})^{55}\text{Cr}$ Reactions. *Nuclear Physics*, *A142*, 469-480. DOI: [http://dx.doi.org/10.1016/0375-9474\(70\)90805-5](http://dx.doi.org/10.1016/0375-9474(70)90805-5)
- Djaloeis A., & **Nurzynski, J.** (1971). Tensor Polarization of Deuterons from the $\text{Mg}(\text{d}, \text{d})\text{Mg}$ Elastic Scattering at 7.0 MeV. *Nuclear Physics*, *A163*, 113-130. DOI: [http://dx.doi.org/10.1016/0375-9474\(71\)90524-0](http://dx.doi.org/10.1016/0375-9474(71)90524-0)
- Djaloeis, A., Cords, H., & **Nurzynski, J.** (1971). Tensor Polarization and Differential Cross Section for the ${}^9\text{Be}(\text{d}, \text{d}){}^9\text{Be}$ Elastic Scattering at Low Energies. *Nuclear Physics*, *A163*, 131-144. DOI: [http://dx.doi.org/10.1016/0375-9474\(71\)90525-2](http://dx.doi.org/10.1016/0375-9474(71)90525-2)

- Djaloeis A., & **Nurzynski, J.** (1972). Tensor Polarization and Differential Cross Sections for the Elastic Scattering of Deuterons by Si at Low Energies. *Nuclear Physics, A181*, 280-288. DOI: [http://dx.doi.org/10.1016/0375-9474\(72\)90920-7](http://dx.doi.org/10.1016/0375-9474(72)90920-7)
- Nurzynski, J.** (1972). Nuclear Physics in Europe 1970/71. *Report ANU-P/546*.
- Nurzynski, J.** (1972). Experiments on the Second Order Processes in Nuclear Reactions. *Report ANU-P/555*.
- Nurzynski, J.** (1973). The Copernican Revolution. In J. W. B. Bialowieyski & K. Bieda (Eds) *Nicolaus Copernicus Heritage*, (pp.59-64). Richmond, Vic., Australia: Polpress Pty Ltd.
- Barbapoulos, L. O., Borsaru, M., Gebbie, D. W., Hollas, C. L., **Nurzynski, J.**, Aniol, K., & Quinton, A. R. (1973). One and Two-Neutron Pickup Reactions from Selenium Isotopes. *Bulletin of American Physical Society, 18*, 408.
- Nurzynski, J.** (1973). The Symmetry Potential for Tritons. *Report ANU-P/568*.
- Barbapoulos, L. O., Borsaru, M., Gebbie, D. W., Hollas, C. L., **Nurzynski, J.**, Aniol, K., & Quinton, A. R. (1974). One and Two-Neutron Pickup Reactions from ^{80}Se . *Bulletin of American Physical Society, 19*, 451.
- Borsaru, M., **Nurzynski, J.**, Gebbie, D. W., Hollas, C. L., Whineray, S., Merrill, N. H., Barbapoulos, L. O., & Quinton, A. R. (1975). (d, t) Reactions on ^{54}Cr , $^{67,68}\text{Zn}$ Nuclei. *Nuclear Physics, A237*, 93-110. DOI: [http://dx.doi.org/10.1016/0375-9474\(75\)90465-0](http://dx.doi.org/10.1016/0375-9474(75)90465-0)
- Nurzynski, J.** (1975). The Surface Absorption Optical Model Potential for 20 Me Tritons. *Nuclear Physics, A246*, 333-356. DOI: [http://dx.doi.org/10.1016/0375-9474\(75\)90650-8](http://dx.doi.org/10.1016/0375-9474(75)90650-8)
- Nurzynski, J.** (1975). Transfer and Processing of the IBM-1800 Data by the UNTVAC-1108 Computer. *Report ANU-P/628*.
- Grüebler, W., Schmelzbach, P. A., König, V., Jenny, B., Risler, R., Bürgi, H. R., & **Nurzynski, J.** (1976). Maximum Tensor Analysing Power $A_{yy} = 1$ in Nuclear Reactions. *Physics Letters, 63B*, 273-274. DOI: [http://dx.doi.org/10.1016/0370-2693\(76\)90261-6](http://dx.doi.org/10.1016/0370-2693(76)90261-6)
- Grüebler, W., Schmelzbach, P. A., König, V., Jenny, B., Risler, R., Bürgi, H. R., & **Nurzynski, J.** (1976). Maximum Tensor Analysing Power $A_{yy} = 1$ in the Reaction $^3\text{He}(d, p)^4\text{He}$ Reaction, *Nuclear Physics, A271*, 29-35. DOI: [http://dx.doi.org/10.1016/0375-9474\(76\)90265-7](http://dx.doi.org/10.1016/0375-9474(76)90265-7)
- Hollas, C. L., Aniol, K. A., Gebbie, D. W., Borsaru, M., **Nurzynski, J.**, & Barbapoulos, L. O. (1977). States in $^{97,101}\text{Ru}$ Observed in the Reaction $^{96,100}\text{Ru}(d, p)$. *Nuclear Physics, A276*, 1-11. DOI: [http://dx.doi.org/10.1016/0375-9474\(77\)90155-5](http://dx.doi.org/10.1016/0375-9474(77)90155-5)
- Borsaru, M., Gebbie, D. W., **Nurzynski, J.**, Hollas, C. L., Barbapoulos, L. O., & Quinton, C. L. (1977). A Study of the $^{78,76}\text{Se}(p,t)^{76,74}\text{Se}$ Reactions at $E_p = 33$ MeV. *Nuclear Physics, A284*, 379-398. DOI: [http://dx.doi.org/10.1016/0375-9474\(77\)90391-8](http://dx.doi.org/10.1016/0375-9474(77)90391-8)
- Hardekopf, R. A., Grüebler, W., Jenny, B., König, V., Risler, R., Bürgi, H. R., & **Nurzynski, J.** (1977). Investigation of the 1^+ Resonance in ^6Li by d- α Scattering between 6 and 7 MeV. *Nuclear Physics, A287*, 237-254. DOI: [http://dx.doi.org/10.1016/0375-9474\(77\)90494-8](http://dx.doi.org/10.1016/0375-9474(77)90494-8)

- Nurzynski, J.**, Gruebler, W., König, V., Risler, R., Hardekopf, R. A., Bürgi, H. B., & Jenny, B. (1977). Shell Closure Effects in the Elastic Scattering of Polarized Deuterons. *Physics Letters*, 67B, 23-25. DOI: [http://dx.doi.org/10.1016/0370-2693\(77\)90794-8](http://dx.doi.org/10.1016/0370-2693(77)90794-8)
- Aniol, K. A., Gebbie, D. W., Hollas, C. L., & **Nurzynski, J.** (1978). The $^{50,52,54}\text{Cr}(^4\text{He},\text{p})^{53,55,57}\text{Mn}$ Reactions at $E_\alpha = 18$ and 26 MeV. *Nuclear Physics*, A303, 154-184. DOI: [http://dx.doi.org/10.1016/0375-9474\(78\)90049-0](http://dx.doi.org/10.1016/0375-9474(78)90049-0)
- Risler, R., Gruebler, W., Schmelzbach, P. A., Jenny, B., König, V., **Nurzynski, J.**, & Bürgi, H. R. (1979). Search for $A_y = 1$ and $A_{yy} = 1$ Points in the $^6\text{Li}(d,\alpha)^4\text{He}$ Reaction. *Nuclear Physics*, A315, 310-316. DOI: [http://dx.doi.org/10.1016/0375-9474\(79\)90613-4](http://dx.doi.org/10.1016/0375-9474(79)90613-4)
- Bürgi, H. R., Gruebler, W., **Nurzynski, J.**, König, V., Schmelzbach, P. A., Risler R., Jenny, B., & Hardekopf, R. A. (1979). A Study of the Elastic Scattering of Polarized Deuterons from ^{60}Ni and ^{90}Zr Nuclei. *Nuclear Physics*, A321, 445-456. DOI: [http://dx.doi.org/10.1016/0375-9474\(79\)90137-4](http://dx.doi.org/10.1016/0375-9474(79)90137-4)
- Barbapoulos, L. O., Gebbie, D. W., **Nurzynski, J.**, Borsaru, M., & Hollas, C. L. (1979). Single-Neutron Transfer Reactions $^{76,78,80,82}\text{Se}(p,d)^{75,77,79,81}\text{Se}$ at $E_p = 33$ MeV. *Nuclear Physics*, A331, 502-528. DOI: [http://dx.doi.org/10.1016/0375-9474\(79\)90356-7](http://dx.doi.org/10.1016/0375-9474(79)90356-7)
- Bürgi, H. R., Gruebler, W., **Nurzynski, J.**, König, V., Schmelzbach, P. A., Risler, R., Jenny, B., & Hardekopf, R. A. (1980). Global Optical-Model Analysis of the Elastic Deuteron Scattering from Medium Heavy Target Nuclei. *Nuclear Physics*, A334, 413-426. DOI: [http://dx.doi.org/10.1016/0375-9474\(80\)90608-9](http://dx.doi.org/10.1016/0375-9474(80)90608-9)
- Nurzynski, J.**, Gruebler, W., Bürgi, H. R., König, V., Risler, R., & Jenny, B. (1980). Two-Step Mechanism in Deuteron Polarisation. *Journal of Physics G: Nuclear Physics*, 6, L81-L83. DOI: <http://dx.doi.org/10.1088/0305-4616/6/4/005>
- Gruebler, W., König, V., Schmelzbach, P. A., Jenny, B., Bürgi, H. R., Hardekopf, R. A., **Nurzynski, J.**, & Risler, R. (1980). A Study of the Highly Excited Six Nucleon System by Elastic d- α Scattering with Polarized Deuterons between 17 and 43 MeV. *Nuclear Physics*, A334, 365-381. DOI: [http://dx.doi.org/10.1016/0375-9474\(80\)90604-1](http://dx.doi.org/10.1016/0375-9474(80)90604-1)
- Clark, P. D., Ophel, T. R., Eck, J. S., Zeller, A. F., **Nurzynski, J.**, Weisser, D. C., & Hebbard, D. F. (1980) Spin Assignments from the $^{138}\text{Ba}(^7\text{Li}, ^6\text{He})^{139}\text{La}$ and $^{140}\text{Ce}(^7\text{Li}, ^6\text{He})^{141}\text{Pr}$ Reactions at 52 MeV. *Nuclear Physics*, A349, 258-270. DOI: [http://dx.doi.org/10.1016/0375-9474\(80\)90453-4](http://dx.doi.org/10.1016/0375-9474(80)90453-4)
- Nurzynski, J.**, Gruebler, W., Bürgi, H. R., König, V., Risler, R., & Jenny, B. (1981). A Study of the Second-Order Processes in the Elastic Scattering of Polarized Deuterons. *Nuclear Physics*, A359, 61-75. DOI: [http://dx.doi.org/10.1016/0375-9474\(81\)90211-6](http://dx.doi.org/10.1016/0375-9474(81)90211-6)
- Nurzynski, J.**, Ophel, T. R., Clark, P. D., Eck, J. S., Hebbard, D. F., Weisser, D. C., Robson, B. A., & Smith, R. (1981). Energy Dependence of the $^{24}\text{Mg}(^{16}\text{O}, ^{12}\text{C})^{28}\text{Si}$ Reaction. *Nuclear Physics*, A363, 253-268. DOI: [http://dx.doi.org/10.1016/0375-9474\(81\)90465-6](http://dx.doi.org/10.1016/0375-9474(81)90465-6)
- Eck, J. S., **Nurzynski, J.**, Ophel, T. R., Clark, P. D., Hebbard, D. F., & Weisser, D. C. (1981). Possible Triaxial Structures in ^{24}Mg from $^{16}\text{O}+^{24}\text{Mg}$ Elastic and Inelastic Scattering. *Physical Review C*, 23, 2068-2072. DOI: <http://dx.doi.org/10.1103/PhysRevC.23.2068>

- Clark, P. D., Ophel, T. R., **Nurzynski, J.**, Atwood, C. H., & Hebbard, D. F. (1981). Spin Assignment from the $^{142}\text{Nd}(^7\text{Li}, ^6\text{He})^{143}\text{Pm}$ and $^{144}\text{Sm}(^7\text{Li}, ^6\text{He})^{145}\text{Eu}$ Reactions at 52 MeV. *Nuclear Physics, A352*, 267-278. DOI: [http://dx.doi.org/10.1016/0375-9474\(81\)90380-8](http://dx.doi.org/10.1016/0375-9474(81)90380-8)
- Eck, J. S., Ophel, T. R., Clark, P. D., **Nurzynski, J.**, & Weisser, D. C. (1982). Optical Model and Coupled-Channel Analysis of $^7\text{Li} + ^{28}\text{Si}$ and $^7\text{Li} + ^{40}\text{Ca}$ Scattering. *Physical Review C*, 25, 2391-2397. DOI: <http://dx.doi.org/10.1103/PhysRevC.25.2391>
- Nurzynski, J.**, Atwood, C. H., Ophel, T. R., Hebbard, D. F., Robson, B. A., & Smith, R. (1983). The $^{24}\text{Mg}(^{16}\text{O}, ^{16}\text{O})$ Reaction and Triaxial Structures in ^{24}Mg . *Nuclear Physics, A399*, 259-274. DOI: [http://dx.doi.org/10.1016/0375-9474\(83\)90607-3](http://dx.doi.org/10.1016/0375-9474(83)90607-3)
- Nurzynski, J.** (1985). Analysis of Polarization Experiments. *Computer Physics Communications*, 36, 295-305. DOI: [http://dx.doi.org/10.1016/0010-4655\(85\)90056-6](http://dx.doi.org/10.1016/0010-4655(85)90056-6)
- Nurzynski, J.**, Kihm, T., Knöpfle, K. T., & Mairle, G. (1985). Structure Study Using (d, d) and (d, d) Reactions at 53 MeV. *6th Int. Symp. on Pol. Phen. in Nucl Phys.*, Osaka (Japan), 26-30 Aug. p. 67.
- Clement, H., **Nurzynski, J.**, Grabmayer, P., Kihm, T., Knöpfle, K. T., & Mairle, G., Reuter, W., & Wagner, G. J. (1985). Effective Deuteron-Nucleus Interactions and Mass Distributions of Nuclei from Fourier-Bessel Study of Elastic Scattering of Polarized Deuterons at 52 MeV. *6th Int. Symp. on Pol. Phen. in Nucl Phys.*, Osaka (Japan), 26-30 Aug. p. 68.
- Nurzynski, J.**, Hebbard, D. F., Ophel, T. R., Kondo, Y., Robson, B. A., & Smith, R. (1986). Excitation Functions for $^{24}\text{Mg}(^{16}\text{O}, ^{16}\text{O})^{24}\text{Mg}^*$ ($0 \leq E_x \leq 8.4$ MeV) Scattering at Forward Angles. *Journal of Physics G: Nuclear Physics*, 12, 383-389. <http://dx.doi.org/10.1088/0305-4616/12/5/005>
- Drumm, P. V., Hebbard, D. F., Ophel, T. R., **Nurzynski, J.**, Kondo, Y., Robson, B. A., & Smith, R. (1986). Excitation Functions for $^{16}\text{O} + ^{24}\text{Mg}$ Elastic Scattering at $\theta_{c.m.} = 90^\circ$. *Australian Journal of Physics*, 39, 369-377. DOI: <http://dx.doi.org/10.1071/PH860369>
- Nurzynski, J.**, Kihm, T., Knöpfle, K. T., Mairle, G., & Clement, H. (1987). Reorientation Effects for 52 MeV Vector Polarized Deuterons. *Nuclear Physics, A465*, 365-378. DOI: [http://dx.doi.org/10.1016/0375-9474\(87\)90353-8](http://dx.doi.org/10.1016/0375-9474(87)90353-8)
- Nurzynski, J.**, Gruebler, W., König, V., & Schmelzbach, P. A., (1987). Effects of Collective Excitations in the Elastic Scattering of Vector Polarized Deuterons. *Nuclear Physics, A474*, 285-289. DOI: [http://dx.doi.org/10.1016/0375-9474\(87\)90618-X](http://dx.doi.org/10.1016/0375-9474(87)90618-X)
- Hebbard, D. F., **Nurzynski, J.**, Ophel, T. R., Drumm, P. V., Kondo, Y., Robson, B. A., & Smith, R. (1988). The $^{20}\text{Ne}(^{16}\text{O}, ^{16}\text{O})^{20}\text{Ne}$ Excitation Functions at $\theta_{c.m.} = 90^\circ$ and Parity-Dependent Interactions. *Nuclear Physics, A481*, 161-172. DOI: [http://dx.doi.org/10.1016/0375-9474\(88\)90478-2](http://dx.doi.org/10.1016/0375-9474(88)90478-2)
- Hebbard, D. F., **Nurzynski, J.**, Ophel, T. R., Drumm, P. V., Kondo, Y., Robson, B. A., & Smith, R. (1988). Resonant Structure in the $^{16}\text{O} + ^{20}\text{Ne}$ Reaction, *The Australian Bicentenary Congress of Physicists*, Australian Institute of Physics, January 25-29, p 383.
- Kondo, Y., Robson, B. A., Smith, R., Hebbard, D. F., **Nurzynski, J.**, Ophel, T. R., & Drumm, P. V. (1988). The $\theta_{c.m.} = 90^\circ$ Excitation Function and Parity Dependent

- Interactions for the $^{16}\text{O}+^{20}\text{Ne}$ System, *The Fifth International Conference on Clustering Aspects in Nuclear and Subnuclear Systems*, July 25-29 1988, Kyoto, p 92.
- Nielsen, R.** (1999). *The 21st Century: Reaching to the Sky*, RN Publishing, ISBN 0-646-384-082; 2000, Second Edition, ISBN 0-957-807-007.
- Nielsen, R.** (2001). *The 21st Century: The Seven Thunders*, RN Publishing, ISBN 0-957-807-015. Reprinted March 2001 and October 2001. Translated into Bulgarian, 2003.
- Nielsen, R.** (2005). *The Green Handbook: A guide to critical global trends*. Melbourne, Australia: Scribe Publications.
- Nielsen, R.** (2006). *The Green Handbook: Seven trends shaping the future of our planet*. New York: St. Martin's Press.
- Nielsen, R.** (2007). *The Green Handbook: A guide to critical global trends*. Chinese translation. Taiwan: Delta Foundation.
- Nielsen, R. W.** (2011). Construction and Maintenance of a Stratospheric Albedo Enhancing Shield. <http://www.scribd.com/doc/46994144/RonNielsen-StratosphericShield>
- Nielsen, R. W.** (2011). Nuclear Reactions: Mechanism and Spectroscopy. <http://www.scribd.com/doc/46997082/RonNielsen-NuclearReactions>
- Nielsen, R. W.** (2013). Hyperbolic illusion of the Mid-Holocene turning point. <http://arxiv.org/ftp/arxiv/papers/1308/1308.6210.pdf>
- Nielsen, R. W.** (2013). Growth of human population in Australia, 1000-10,000 BP. <http://arxiv.org/ftp/arxiv/papers/1309/1309.0833.pdf>
- Nielsen, R. W.** (2013). Extinction of megafauna: How could the research get so wrong? <http://arxiv.org/ftp/arxiv/papers/1309/1309.1804.pdf>
- Nielsen, R. W.** (2013). The Late-Pleistocene extinction of megafauna compared with the growth of human population. <http://arxiv.org/ftp/arxiv/papers/1309/1309.3002.pdf>
- Nielsen, R. W.** (2013). Computer simulation of the extinction of megafauna. <http://arxiv.org/ftp/arxiv/papers/1309/1309.5998.pdf>
- Nielsen, R. W.** (2013). Growth rate of the ancient human population in Australia. <http://arxiv.org/ftp/arxiv/papers/1309/1309.5752.pdf>
- Nielsen, R. W.** (2013). Scientifically unacceptable concept of the Epoch of Malthusian Stagnation. <http://arxiv.org/ftp/arxiv/papers/1310/1310.4258.pdf>
- Nielsen, R. W.** (2013). Malthusian stagnation or Malthusian regeneration? <http://arxiv.org/ftp/arxiv/papers/1310/1310.5390.pdf>
- Nielsen, R. W.** (2013). Impacts of demographic catastrophes. <http://arxiv.org/ftp/arxiv/papers/1311/1311.1850.pdf>
- Nielsen, R. W.** (2013). No stagnation in the growth of population. <http://arxiv.org/ftp/arxiv/papers/1311/1311.3997.pdf>
- Nielsen, R. W.** (2013). Unified Growth Theory: A puzzling collection of myths based on hyperbolic illusions. <http://arxiv.org/ftp/arxiv/papers/1311/1311.5511.pdf>
- Nielsen, R. W.** (2014). Changing the Paradigm. *Applied Mathematics*, 5, 1950-1963. DOI: <http://dx.doi.org/10.4236/am.2014.513188>

- Nielsen, R. W.** (2015). Unified Growth Theory Contradicted by the Hyperbolic Economic Growth. <https://www.scribd.com/doc/290099576/Unified-Growth-Theory-Contradicted-by-the-Hyperbolic-Economic-Growth>
- Nielsen, R. W.** (2015). Mathematical analysis of the historical economic growth. <http://arxiv.org/ftp/arxiv/papers/1509/1509.06612.pdf> .
- Nielsen, R. W.** (2015). Demographic transition theory contradicted repeatedly by data. <http://arxiv.org/ftp/arxiv/papers/1510/1510.00471.pdf>
- Nielsen, R. W.** (2015). Hyperbolic growth of the world population in the past 12,000 years. <http://arxiv.org/ftp/arxiv/papers/1510/1510.00992.pdf>
- Nielsen, R. W.** (2015). Mathematics of predicting growth. *Economic Review*, 2(1), 222-238. <http://kspjournals.org/index.php/TER/article/view/527>
- Nielsen, R. W.** (2015). The insecure future of the world economic growth. *Journal of Economic and Social Thought*, 2(4), 242-255. <http://kspjournals.org/index.php/JEST/article/view/526>
- Nielsen, R. W.** (2015). Early warning signs of the economic crisis in Greece: A warning for other countries and regions. *Journal of Economics and Political Economy*, 2(4), 460-466. <http://kspjournals.org/index.php/JEPE/article/view/562>
- Nielsen, R. W.** (2015). Unified Growth Theory contradicted by the GDP/cap data. <http://arxiv.org/ftp/arxiv/papers/1511/1511.09323.pdf>
- Nielsen, R. W.** (2015). Unified Growth Theory contradicted by the economic growth in Africa. <http://arxiv.org/ftp/arxiv/papers/1512/1512.03164.pdf>
- Nielsen, R. W.** (2015). Unified Growth Theory contradicted by the economic growth in Asia. <http://arxiv.org/ftp/arxiv/papers/1512/1512.05074.pdf>
- Nielsen, R. W.** (2015). Unified Growth Theory contradicted by the economic growth in the former USSR. <http://arxiv.org/ftp/arxiv/papers/1512/1512.06309.pdf>
- Nielsen, R. W.** (2015). Unified Growth Theory contradicted by the economic growth in Europe. <http://arxiv.org/ftp/arxiv/papers/1512/1512.08067.pdf>
- Nielsen, R. W.** (2016). Unified Growth Theory contradicted by the economic growth in Latin America. <http://arxiv.org/ftp/arxiv/papers/1601/1601.01804.pdf>
- Nielsen, R. W.** (2016). Mathematical analysis of the historical economic growth with a search for takeoffs from stagnation to growth. *Journal of Economic Library*, 3(1), 1-23. <http://www.kspjournals.org/index.php/JEL/article/view/606>
- Nielsen, R. W.** (2016). Growth of the world population in the past 12,000 years and its link to the economic growth. *Journal of Economics Bibliography*, 3(1), 1-12. <http://www.kspjournals.org/index.php/JEB/article/view/607>
- Nielsen, R. W.** (2016). Demographic Transition Theory and its link to the historical economic growth. *Journal of Economic and Political Economy*, 3(1), 32-49. <http://www.kspjournals.org/index.php/JEPE/article/view/618/798>
- Nielsen, R. W.** (2016). Unified Growth Theory contradicted by the absence of takeoffs in the Gross Domestic Product. *Economic Review*, 3(1), 16-27. <http://www.kspjournals.org/index.php/TER/article/view/650>; <http://arxiv.org/ftp/arxiv/papers/1601/1601.04686.pdf>

- Nielsen, R. W.** (2016). The postulate of the three regimes of economic growth contradicted by data. *Journal of Economic and Social Thought*, 3(1), 1-34.
<http://www.kspjournals.org/index.php/JEST/article/view/669>;
<http://arxiv.org/ftp/arxiv/papers/1602/1602.05718.pdf>.
- Nielsen, R. W.** (2016). Unified Growth Theory contradicted by the mathematical analysis of the historical growth of human population. *Journal of Economics and Political Economy*, 3(2), 242-263. <http://www.kspjournals.org/index.php/JEST/article/view/777/911>
<http://arxiv.org/ftp/arxiv/papers/1601/1601.07291.pdf>
- Nielsen, R. W.** (2016). Puzzling properties of the historical growth rate of income per capita explained. *Journal of Economics Library*, 3(2), 241-256.
<http://www.kspjournals.org/index.php/JEL/article/view/756/867>
<http://arxiv.org/ftp/arxiv/papers/1603/1603.00736.pdf>
- Nielsen, R. W.** (2016). Mathematical analysis of the historical income per capita distributions. *Economic Review*, 3(2), 300-319.
<http://www.kspjournals.org/index.php/TER/article/view/766/889>
<http://arxiv.org/ftp/arxiv/papers/1603/1603.01685.pdf>
- Nielsen, R. W.** (2016). The unresolved mystery of the great divergence is solved. *Journal of Economic and Social Thought*, 3(2), 196-219.
<http://www.kspjournals.org/index.php/JEST/article/view/777/911>
<http://arxiv.org/ftp/arxiv/papers/1603/1603.08344.pdf>
- Nielsen, R. W.** (2016). Scientifically unacceptable established knowledge in demography and in economic research. *Journal of Economic Library*, 3(3), 429-457.
<http://kspjournals.org/index.php/JEL/article/view/918>
- Nielsen, R. W.** (2016). The dichotomy of Malthusian positive checks: Destruction and even more intensified regeneration. *Journal of Economic Bibliography*, 3(3), 409-433.
<http://www.kspjournals.org/index.php/JEB/article/view/934>
- Nielsen, R. W.** (2016). Industrial Revolution did not boost the economic growth or the growth of population even in the United Kingdom. *Journal of Economic Bibliography*, 3(4), 434-446.
<http://kspjournals.org/index.php/JEB/article/view/1053>
- Nielsen, R. W.** (2016). Mathematical analysis of income per capita in the United Kingdom. *Economic Review*, 3(4), 453-463. <http://kspjournals.org/index.php/TER/article/view/1054>
- Nielsen, R. W.** (2016). Interpretations of Hyperbolic Growth. *Journal of Economics and Political Economy*, 3(4), 594-626.
<http://kspjournals.org/index.php/JEPE/article/download/1063/1099>
- Nielsen, R. W.** (2016). The Law of Growth. *Journal of Economic and Social Thought*, 3(4), 349-357. <http://kspjournals.org/index.php/JEPE/article/view/1063>
- Nielsen, R. W.** (2016). Mechanism of Hyperbolic Growth Explained. *Journal of Economic Library*. 3(4), 411-428. <http://kspjournals.org/index.php/JEL/article/view/1074>
- Nielsen, R. W.** (2016). *Nuclear Reactions: Mechanism and Spectroscopy*. Volumes I and II. Gold Coast, Australia: Griffith University.
<https://arxiv.org/ftp/arxiv/papers/1612/1612.02270.pdf>
<https://arxiv.org/ftp/arxiv/papers/1612/1612.02271.pdf>

- Nielsen, R. W.** (2017). Puzzling Features of Income per Capita Explained. *Journal of Economics Bibliography*, 4(1), 10-24.
<http://www.kspjournals.org/index.php/JEB/article/download/1155/1216>
- Nielsen, R. W.** (2017). Population and Economic Growth in Australia: 8,000 BC – AD 1700 and Extended to 60,000 BC. *Journal of Economic and Social Thought*, 4(1), 41-54.
<http://www.kspjournals.org/index.php/JEST/article/download/1156/1206>
- Nielsen, R. W.** (2017). Economic Growth and the Growth of Human Population in the Past 2,000,000 Years. *Journal of Economic Bibliography*, 4(2). *Forthcoming*.
- Nielsen, R. W.** (2017). Demographic Catastrophes Did Not Shape the Growth of Human Population or Economic Growth. *Journal of Economic and Social Thought*, 4(2). *Forthcoming*.
- Nielsen, R. W.** (2017). Application of Differential Equations in Projecting Growth Trajectories. *Journal of Economic Bibliography*, 4(3). *Forthcoming*. <https://arxiv.org/pdf/1705.06557>
- Nielsen, R. W.** (2017). *New Directions in the Economic and Demographic Research*. In preparation.