**Suppressed Reflectance Bibliography**

Selected References— Revised April 2021

These bibliographic references have been compiled as a TSOP project, and organic petrologists have found the references to be useful in their work. They should be available at university or geological research center libraries. They are not available from TSOP.

Barker, C.E., 1991, An update on the suppression of vitrinite reflectance: TSOP Newsletter, v. 8, no. 4, p. 8-11.

Barker, C.E., M.D. Lewan, and M.J. Pawlewicz, 2007, The influence of extractable organic matter on vitrinite reflectance suppression: A survey of kerogen and coal types: International Journal of Coal Geology, v. 70, p. 67-78.

Bostick, N.H., 2011, Measured reflectance suppressed by thin-film interference of crude oil smeared on glass—as on vitrinite in coal or petroliferous rocks: TSOP Newsletter, v. 28, no. 2, p. 12-15.

Burnham, A.K., 2019, Kinetic models of vitrinite, kerogen, and bitumen reflectance: Organic Geochemistry, v. 131, p. 50-59.

Carr, A.D., 1999, A vitrinite reflectance kinetic model incorporating overpressure retardation: Marine and Petroleum Geology, v. 16, p. 355-377.

Carr, A.D., 2000, Suppression and retardation of vitrinite reflectance, part 1. Formation and significance for hydrocarbon generation: Journal of Petroleum Geology, v. 23, p. 313-343.

Carr, A.D., 2000, Suppression and retardation of vitrinite reflectance, part 2. Derivation and testing of a kinetic model for suppression: Journal of Petroleum Geology, v. 23, p. 475-496.

Chen, Z., K. Dewing, D.P. Synnott, and X. Liu, 2019, Correcting Tmax suppression: A numerical model for removing adsorbed heavy oil and bitumen from Upper Ordovician source rocks, Arctic Canada: Energy & Fuels, v. 33, p. 6234-6246.

Chen, Z., Z. Chai, Y. Cao, Q. Liu, S. Zhang, and G. Yuan, 2019, Suppression of thermal maturity indicators in lacustrine source rocks: A case study of Dongying Depression, eastern China: Marine and Petroleum Geology, v. 109, p. 108-127.

Corrêa da Silva, Z., 1989, The rank evaluation of south Brazillian Gondwana coals on the basis of different chemical and physical parameters: International Journal of Coal Geology, v. 13, p. 21-39.

Costa, A., D. Flores, I. Suárez-Ruiz, C. Pevida, F. Rubiera, and M.J. Iglesias, 2010, The importance of thermal behavior and petrographic composition for understanding the characteristics of a Portuguese perhydrous Jurassic coal: International Journal of Coal Geology, v. 84, p. 237-247.

Dewing, K., and H. Sanei, 2009, Analysis of large thermal maturity datasets: Examples from the Canadian Arctic Islands: International Journal of Coal Geology, v. 77, p. 436-448.

Diessel, C.F.K., and L. Gammidge, 1998, Isometamorphic variations in the reflectance and fluorescence of vitrinite — a key to depositional environment: International Journal of Coal Geology, v. 37, p. 179-206.

Ellacott, M.V., N.J. Russell, and R.W.T. Wilkins, 1994, Troubleshooting vitrinite reflectance problems using FAMM: A Gippsland and Otway Basin case study: APEA Journal, v. 34, p. 216-230.

Fatimah, and C.R. Ward, 2009, Mineralogy and organic petrology of oil shales in the Sangkarewang Formation, Ombilin Basin, West Sumatra, Indonesia: International Journal of Coal Geology, v. 77, p. 424-435.

Fermont, W.J.J., 1988, Possible causes of abnormal vitrinite reflectance values in paralic deposits of the Carboniferous in the Achterhoek area, The Netherlands: Organic Geochemistry, v. 12, p. 401-411.

Fujii, K., S. Yamazaki, K. Shoda, and K. Miki, 1982, Effect of degradinite on coal properties and its conversion at Ikeshima coal mine (abstract): AAPG Bulletin, v. 66, p. 968.

Gentzis, T., and F. Goodarzi, 1991, Petrology, depositional environment and utilization potential of Devonian cannel coals from Melville Island, Canadian Arctic Islands: Bulletin de la Societe Geologique de France, v. 162, p. 239-253.

Gentzis, T., and F. Goodarzi, 1994, Reflectance suppression in some Cretaceous coals from Alberta, Canada, in P.K. Mukhopadhyay and W.G. Dow, eds., Vitrinite reflectance as a maturity parameter: applications and limitations: American Chemical Society Symposium Series 570, p. 93-110.

George, S.C., J.W. Smith, and D.R. Jardine, 1994, Vitrinite reflectance suppression in coal due to marine transgression: Case study of the organic geochemistry of the Greta Seam, Sydney Basin: Australian Petroleum Exploration Association Journal, v. 34, p. 241-255.

Goodarzi, F., T. Gentzis, S. Feinstein, and L. Snowdon, 1988, Effect of maceral subtypes and mineral matter matrix on measured reflectance of subbituminous coals and dispersed organic matter: International Journal of Coal Geology, v. 10, p. 383-398.

Goodarzi, F., T. Gentzis, L.R. Snowdon, R.M. Bustin, S. Feinstein, and M. Labonte, 1993, Effect of mineral matrix and seam thickness on reflectance of vitrinite in high to low volatile bituminous coals: an enigma: Marine and Petroleum Geology, v. 10, p. 162-171.

Goodarzi, F., L. Snowdon, T. Gentzis, and D. Pearson, 1994, Petrological and chemical characteristics of liptinite-rich coals from Alberta, Canada: Marine and Petroleum Geology, v. 11, p. 307-319.

Gurba, L.W., and C.R. Ward, 1998, Vitrinite reflectance anomalies in high-volatile bituminous coals of the Gunnedah basin, New South Wales, Australia: International Journal of Coal Geology, v. 36, p. 111-140.

Gurba, L.W., and C.R. Ward, 2000, Elemental composition of coal macerals in relation to vitrinite reflectance, Gunnedah basin, Australia, as determined by electron microprobe analysis: International Journal of Coal Geology, v. 44, p. 127-147. (suppression caused by high carbon content)

Hackley, P.C., R.T. Ryder, M.H. Trippi, and H. Alimi, 2013, Thermal maturity of northern Appalachian Basin Devonian shales: Insights from sterane and terpane biomarkers: Fuel, v. 106, p. 455-462.

Hackley, P.C., A.M. Bove, F.T. Dulong, M.D. Lewan, and B.J. Valentine, 2013, Reevaluation of vitrinite reflectance suppression through hydrous pyrolysis experiments (abstract): 65th Annual Meeting of the International Committee for Coal and Organic Petrology, Program & Abstract Book, p. 32-33.

Hackley, P.C., N. Fishman, T. Wu, and G. Baugher, 2016, Organic petrology and geochemistry of mudrocks from the lacustrine Lucaogou Formation, Santanghu Basin, northwest China: Application to lake basin evolution: International Journal of Coal Geology, v. 168, p. 20-34.

**Hackley, P.C., and M. Lewan, 2018, Understanding and distinguishing reflectance measurements of solid bitumen and vitrinite using hydrous pyrolysis: Implications to petroleum assessment: AAPG Bulletin, v. 102, p. 1119-1140.**

Hao, F., and J. Chen, 1992, The cause and mechanism of vitrinite reflectance anomalies: Journal of Petroleum Geology, v. 15, p. 419-434.

Hao, F., Y. Sun, S. Li, and Q. Zhang, 1995, Overpressure retardation of organic matter and petroleum generation: a case study from the Yinggehai and Qiongdongan basins, south China sea: AAPG Bulletin, v. 79, p. 551-562.

Hao, F., H. Zou, Z. Gong, S. Yang, and Z. Zeng, 2007, Hierarchies of overpressure retardation of organic matter maturation: case studies from petroleum basins in China: AAPG Bulletin, v. 91, p. 1467-1498.

He, S., M. Middleton, A. Kaiko, C. Jiang, and M. Li, 2002, Two case studies of thermal maturity and thermal modelling within the overpressured Jurassic rocks of the Barrow sub-basin, north west shelf of Australia: Marine and Petroleum Geology, v. 19, p. 143-159.

Huang, W.-L., 1996, Experimental study of vitrinite maturation: effects of temperature, time, pressure, water, and Hydrogen Index: Organic Geochemistry, v. 24, p. 233-241.

Hunt, J.M., 1996, Petroleum geochemistry and geology, 2nd ed.: New York, W.H. Freeman and Company, 743 p. (p. 511-514)

Hutton, A.C., and A.C. Cook, 1980, Influence of alginite on the reflectance of vitrinite from Joadja, N.S.W., and some other coals and oil shales containing alginite: Fuel, v. 59, p. 711-714.

Iglesias, M.J., A. Jiménez, J.C. del Río, and I. Suárez-Ruiz, 2000, Molecular characterisation of vitrinite in relation to natural hydrogen enrichment and depositional environment: Organic Geochemistry, v. 31, p. 1285-1299.

Iglesias, M.J., J.C. del Río, F. Laggoun-Defarge, M.J. Cuesta, and I. Suarez-Ruiz, 2002, Control of the chemical structure in perhydrous coals by FTIR and Py-GC/MS: Journal of Analytical and Applied Pyrolysis, v. 62, p. 1-34.

Jimenez, A., F. Laggoun-Defarge, M.J. Iglesias, J.G. Prado, and I. Suarez-Ruiz, 1994, Significance of the resinization and oil impregnation processes in reflectance suppression of the vitrinite (abstract): ICCP News, no. 10, p. 10-11.

Kalinowski, A., and L. Gurba, 2014, Vitrinite reflectance suppression in the Northern Denison Trough, Bowen Basin, QLD Australia (abstract): TSOP Program and Abstracts, v. 31, p. 82-85.

Kalkreuth, W., 1982, Rank and petrographic composition of selected Jurassic-Lower Cretaceous coals of British Columbia, Canada: Bulletin of Canadian Petroleum Geology, v. 30, p. 112-139.

Kalkreuth, W., and G. Macauley, 1984, Organic petrology of selected oil shale samples from the Lower Carboniferous Albert Formation, New Brunswick, Canada: Bulletin of Canadian Petroleum Geology, v. 32, p. 38-51.

Kalkreuth, W., and G. Macauley, 1987, Organic petrology and geochemical (Rock Eval) studies on oil shales and coals from the Pictou and Antigonish areas, Nova Scotia, Canada: Bulletin of Canadian Petroleum Geology, v. 35, p. 263-295.

Kalkreuth, W., N. Sherwood, G. Cioccari, Z. Corrêa da Silva, M. Silva, N. Zhong, and L. Zufa, 2004, The application of FAMM (Fluorescence Alteration of Multiple Macerals) analyses for evaluating rank of Paraná Basin coals, Brazil: International Journal of Coal Geology, v. 57, p. 167-185.

Lash, G.G., 2006, Vitrinite suppression in Devonian black shale, western New York state: preliminary results (abstract): AAPG Eastern Section meeting, Buffalo, N.Y.

Le Bayon, R., G.P. Brey, W.G. Ernst, and R. Ferreiro Mählmann, 2011, Experimental kinetic study of organic matter maturation: Time and pressure effects on vitrinite reflectance at 400 ºC: Organic Geochemistry, v. 42, p. 340-355.

Levine, J.R., 1993, Coalification: the evolution of coal as source rock and reservoir rock for oil and gas, in B.E. Law and D.D. Rice, eds., Hydrocarbons from coal: AAPG Studies in Geology 38, p. 39-77.

Lewan, M.D., 1993, Identifying and understanding suppressed vitrinite reflectance through hydrous pyrolysis experiments (abstract): TSOP Abstracts and Program, v. 10, p. 1-3.

Lo, H.-B., 1993, Correction criteria for the suppression of vitrinite reflectance in hydrogen-rich kerogens: preliminary guidelines: Organic Geochemistry, v. 20, p. 653-657.

Lo, H.B., R.W.T. Wilkins, M.V. Ellacott, and C.P. Buckingham, 1997, Assessing the maturity of coals and other rocks from North America using the fluorescence alteration of multiple macerals (FAMM) technique: International Journal of Coal Geology, v. 33, p. 61-71.

Lo, H.-B., 1998, How to evaluate maturity of kerogen when its vitrinite reflectance is suppressed (abstract): TSOP, Abstracts and Program, v. 15, p. 43-44.

Massoud, M.S., A.C. Scott, S.D. Killops, D. Mattey, and M.L. Keeley, 1993, Oil source rock potential of the lacustrine Jurassic Sim Uuju Formation, west Korea Bay basin, part II: nature of the organic matter and hydrocarbon-generation history: Journal of Petroleum Geology, v. 16, p. 265-284.

Mastalerz, M., K.R. Wilks, and R.M. Bustin, 1993, Variation in vitrinite chemistry as a function of associated liptinite content; a microprobe and FT-i.r. investigation: Organic Geochemistry, v. 20, p. 555-562.

McTavish, R.A., 1978, Pressure retardation of vitrinite diagenesis, offshore northwest Europe: Nature, v. 271, p. 648-650.

McTavish, R.A., 1998, The role of overpressure in the retardation of organic matter maturation: Journal of Petroleum Geology, v. 21, p. 153-186.

Mukhopadhyay, P.K., 1992, Maturation of organic matter as revealed by microscopical methods: applications and limitations of vitrinite reflectance, and continuous spectral and pulsed laser fluorescence spectroscopy, in K.H. Wolf and G.V. Chilingarian, eds., Diagenesis III: Elsevier, Developments in Sedimentology 47, p. 435-510.

Mukhopadhyay, P.K., 1994, Vitrinite reflectance as maturity parameter: petrographic and molecular characterization and its applications to basin modeling, in P.K. Mukhopadhyay and W.G. Dow, eds., Vitrinite reflectance as a maturity parameter: applications and limitations: Washington, D.C., American Chemical Society Symposium Series 570, p. 1-24.

Murchison, D.G., J. Pearson, and A.C. Raymond, 1991, Anomalies in vitrinite reflectance gradients: Bulletin de la Societe Geologique de France, v. 162, p. 183-191.

Murchison, D.G., 2004, Aberrations in the coalfication patterns of the offshore coalfields of Northumberland and Durham, United Kingdom: International Journal of Coal Geology, v. 58, p. 133-146.

Newman, J., and N.A. Newman, 1982, Reflectance anomalies in Pike River coals: evidence of variability in vitrinite type, with implications for maturation studies and "Suggate rank": New Zealand Journal of Geology and Geophysics, v. 25, p. 233-243.

Newman, J., 1997, New approaches to detection and correction of suppressed vitrinite reflectance: Australian Petroleum Production and Exploration Association Journal, v. 37, p. 524-535.

Newman, J., L.C. Price, and L.C. Johnston, 1997, Hydrocarbon source potential and maturation in Eocene New Zealand vitrinite-rich coals: Journal of Petroleum Geology, v. 20, p. 137-163.

Nuccio, V.F., and J.R. Hatch, 1996, Vitrinite reflectance suppression in the New Albany Shale, Illinois Basin; vitrinite reflectance and Rock-Eval data: U.S. Geological Survey Open-File Report 96-0665, 37 p.

Othman, R., and C.R. Ward, 2002, Thermal maturation pattern in the southern Bowen, northern Gunnedah and Surat basins, northern New South Wales, Australia: International Journal of Coal Geology, v. 51, p. 145-167.(influence of marine)

Peters, K.E., P.C. Hackley, J.J. Thomas, and A.E. Pomerantz, 2018, Suppression of vitrinite reflectance by bitumen generated from liptinite during hydrous pyrolysis of artificial source rock: Organic Geochemistry, v 125, p. 220-228.

Peters, K.E., P.C. Hackley, J.J. Thomas, and A.E. Pomerantz, 2019, Experimental evidence for suppression of vitrinite reflectance by liptinite during hydrous pyrolysis of artificial source rock: AAPG Search and Discovery Article #42386, 23 p. <http://www.searchanddiscovery.com/pdfz/documents/2019/42386peters/ndx_peters.pdf.html>

Petersen, H.I., and P. Rosenberg, 1998, Reflectance retardation (suppression) and source rock properties related to hydrogen-enriched vitrinite in Middle Jurassic coals, Danish North Sea: Journal of Petroleum Geology, v. 21, p. 247-263.

Petersen, H.I., and H. Vosgerau, 1999, Composition and organic maturity of Middle Jurassic coals, North-East Greenland: evidence for liptinite-induced suppression of huminite reflectance: International Journal of Coal Geology, v. 41, p. 257-274.

Petersen, H.I., A. Foopatthanakamol, and B. Ratanasthien, 2006, Petroleum potential, thermal maturity and the oil window of oil shales and coals in Cenozoic rift basins, central and northern Thailand: Journal of Petroleum Geology, v. 29, p. 337-360.

Petersen, H.I., N. Sherwood, A. Mathiesen, M.B.W. Fyhn, N.T. Dau, N. Russell, J.A. Bojesen-Koefoed, and L.H. Nielsen, 2009, Application of integrated vitrinite reflectance and FAMM analyses for thermal maturity assessment of the northeastern Malay Basin, offshore Vietnam: Implications for petroleum prospectivity evaluation: marine and Petroleum Geology, v. 26, p. 319-332.

Pickel, W., R. Wilkins, C. Buckingham, M. Faiz, J. Kurusingal, N. Russell, and N. Sherwood, 2001, Laser microscopy–FAMM: ICCP White Paper, 10 p. <http://www.iccop.org/uploads/media/2._Pickel_et_al._-_FAMM_02.pdf>

Ping, H., H. Chen, S.C. George, C. Li, and S. Hu, 2019, Relationship between the fluorescence colour of oil inclusions and thermal maturity in the Dongying Depression, Bohai Bay Basin, China: Part 2. Fluorescence evolution of oil in the context of petroleum generation, expulsion and cracking under geological conditions: Marine and Petroleum Geology, v. 103, p. 306-319.

Price, L.C., and C.E. Barker, 1985, Suppression of vitrinite reflectance in amorphous rich kerogen - a major unrecognized problem: Journal of Petroleum Geology, v. 8, p. 59-84.

Quick, J.C., and D.A. Wavrek, 1994, Suppressed reflectance vitrinite: recognition and correction (abstract): AAPG Annual Convention, Official Program, v. 3, p. 240.

Quick, J.C., 1994, Iso-rank variation of vitrinite reflectance and fluorescence intensity, in P.K. Mukhopadhyay and W.G. Dow, eds., Vitrinite reflectance as a maturity parameter: applications and limitations: American Chemical Society Symposium Series 570, p. 64-75.

Quick, J.C., and D.E. Tabet, 2003, Suppressed vitrinite reflectance in the Ferron coalbed gas fairway, central Utah: possible influence of overpressure: International Journal of Coal Geology, v. 56, p. 49-67.

Radke, M., R. Schaeffer, D. Leythaeuser, and M. Teichmüller, 1980, Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence: Geochimica et Cosmochimica Acta, v. 44, p. 1787-1800.

Raymond, A.C., and D.G. Murchison, 1991, Influence of exinitic macerals on the reflectance of vitrinite in Carboniferous sediments of the Midland Valley of Scotland: Fuel, v. 70, p. 155-161.

Rimmer, S.M., D.J. Cantrell, and P.J. Gooding, 1993, Rock-Eval pyrolysis and vitrinite reflectance trends in the Cleveland Shale member of the Ohio Shale, eastern Kentucky: Organic Geochemistry, v. 20, p. 735-745.

Ritter, U., and A. Grover, 2005, Adsorption of petroleum compounds in vitrinite: implications for petroleum expulsion from coal: International Journal of Coal Geology, v. 62, p. 183-191.

Ryder, R.T., P.C. Hackley, H. Alimi, and M.H. Trippi, 2013, Evaluation of thermal maturity in the low maturity Devonian shales of the northern Appalachian Basin: AAPG Search and Discovery Article 10477, 228 p.

Sandvik, E.I., W.A. Young, and D.J. Curry, 1992, Expulsion from hydrocarbon sources: the role of organic absorption, in C.B. Eckardt, J.R. Maxwell, S.R. Larter, and D.A.C. Manning, eds., Advances in organic geochemistry 1991, part I. Advances and applications in energy and the natural environment: Organic Geochemistry, v. 19, p. 77-87.

Schito, A., S. Corrado, L. Aldega, and D. Grigo, 2016, Overcoming pitfalls of vitrinite reflectance measurements in the assessment of thermal maturity: the case history of the lower Congo Basin: Marine and Petroleum Geology, v. 74, p. 59-70.

Seewald, J.S., and L.B. Eglinton, 1994, Organic-inorganic interactions during vitrinite maturation: Constraints from hydrous pyrolysis experiments (abstract): The Society for Organic Petrology, Annual Meeting Abstracts, v. 11, p. 91-94.

Seewald, J.S., and L.B. Eglinton, 2000, An experimental study of organic-inorganic interactions during vitrinite maturation: Geochimica et Cosmochimica Acta, v. 64, p. 1577-1591.

Smith, J.R., and J.W. Smith, 2007, A relationship between the carbon and hydrogen content of coals and their vitrinite reflectance: International Journal of Coal Geology, v. 70, p. 79-86.

Suárez-Ruiz, I., A. Jiménez, M.J. Iglesias, F. Laggoun-Defarge, and J.G. Prado, 1994, Influence of resinite on huminite properties: Energy & Fuels, v. 8, p. 1417-1424.

Suárez-Ruiz, I., M.J. Iglesias, A. Jiménez, F. Laggoun-Défarge, and J.G. Prado, 1994, Petrographic and geochemical anomalies detected in Spanish Jurassic jet, in P.K. Mukhopadhyay and W.G. Dow, eds., Vitrinite reflectance as a maturity parameter: applications and limitations: Washington, D.C., America Chemical Society, Symposium Series 570, p. 76-92.

Sykes, R., M.G. Fowler, and K.C. Pratt, 1994, A plant tissue origin for Ulminites A and B in Saskatchewan lignites and implications for Ro: Energy & Fuels, v. 8, p. 1402-1416.

Takahashi, K.U., T. Nakajima, Y. Suzuki, S. Morita, T. Sawaki, and Y. Hanamura, 2020, Hydrocarbon generation potential and thermal maturity of coal and coaly mudstones from the Eocene Urahoro Group in the Kushiro Coalfield, eastern Hokkaido, Japan: International Journal of Coal Geology, v. 217, 103322.

Taylor, G.H., and S.Y. Liu, 1987, Biodegradation in coals and other organic-rich rocks: Fuel, v. 66, p. 1269-1273.

Taylor, G.H., and M. Teichmuller, 1993, Observations on fluorinite and fluorescing vitrinite with the transmission electron microscope: International Journal of Coal Geology, v. 22, p. 61-82.

Teichmüller, M., 1987, Recent advances in coalfication studies and their application to geology, in A.C. Scott, ed., Coal and coal-bearing strata: recent advances: Boston, Blackwell Scientific Publications, Geological Society Special Publication 32, p. 127-169.

Torre, M.D., R.F. Mählmann, and W.G. Ernst, 1997, Experimental study on the pressure dependence of vitrinite maturation: Geochimica et Cosmochimica Acta, v. 61, p. 2921-2928.

Tsai, L.L., and L.-C. Sun, 2002, Suppression of vitrinite reflectance implications from a case study (abstract): TSOP Annual Meeting, abstract A3.2.6.

Ujiié, Y., N. Sherwood, M. Faiz, and R.W.T. Wilkins, 2004, Thermal maturity and suppressed vitrinite reflectance for Neogene petroleum source rocks of Japan: AAPG Bulletin, v. 88, p. 1335-1356.

Veld, H., and W.J.J. Fermont, 1990, The effect of a marine transgression on vitrinite reflectance values, in W.J.J. Fermont and J.W. Weegink, eds., International symposium on organic petrology: Mededelingen Rijks Geologische Dienst, v. 45, p. 151-169.

Veld, H., and W. Fermont, 1993, Deviating vitrinite reflectance values in a Carboniferous coal sequence from the Netherlands (abstract): ICCP News, no. 8, p. 10.

Veld, H., R.W.T. Wilkins, X. Xianming, and C.P. Buckingham, 1997, A “fluorescence alteration of multiple macerals” (FAMM) study of Netherlands coals with “normal” and “deviating” vitrinite reflectance: Organic Geochemistry, v. 26, p. 247-255.

Waples, D.W., M. Ramly, and W. Leslie, 1995, Implications of vitrinite-reflectance suppression for the tectonic and thermal history of the Malay Basin: Geological Society of Malaysia Bulletin 37, p. 269-284.

Ward, C.R., Z. Li, and L.W. Gurba, 2007, Variations in elemental composition of macerals with vitrinite reflectance and organic sulphur in the Greta Coal Measures, New South Wales, Australia: International Journal of Coal Geology, v. 69, p. 205-219.

Wenger, L.M., and D.R. Baker, 1987, Variations in vitrinite reflectance with organic facies — examples from Pennsylvanian cyclothems of the Midcontinent, U.S.A.: Organic Geochemistry, v. 11, p. 411-416.

Wilkins, R.W.T., J.R. Wilmshurst, N.J. Russell, G. Hladky, M.V. Ellacott, and C. Buckingham, 1992, Fluorescence alteration and the suppression of vitrinite reflectance: Organic Geochemistry, v. 18, p. 629-640.

Wilkins, R.W.T., J.R. Wilmshurst, G. Hladky, M.V. Ellacott, and C.P. Buckingham, 1992, The suppression of vitrinite reflectance in some North West Shelf wells: Barrow-1, Jupiter-1 and Flamingo-1: APEA Journal, v. 32, part 1, p. 300-312.

Wilkins, R.W.T., J.R. Wilmshurst, G. Hladky, M.V. Ellacott, and C.P. Buckingham, 1994, Should fluorescence alteration replace vitrinite reflectance as a major tool for thermal maturity determination in oil exploration?: Organic Geochemistry, v. 22, p. 191-209.

Wilkins, R.W.T., C.P. Buckingham, N. Sherwood, N.J. Russell, M. Faiz, and J. Kurusingal, 1998, The current status of the FAMM thermal maturity technique for petroleum exploration in Australia: The Australian Petroleum Exploration Association (APEA) Journal, v. 38, p. 421-443.

Wilkins, R.W.T., and S.C. George, 2002, Coal as a source rock for oil: a review: International Journal of Coal Geology, v. 50, p. 317-361.

Wilkins, R.W.T., C.F.K. Diessel, and C.P. Buckingham, 2002, Comparison of two petrographic methods for determining the degree of anomalous vitrinite reflectance: International Journal of Coal Geology, v. 52, p. 45-62.

Zhang, E., A. Davis, T.P. Filley, and P.G. Hatcher, 1993, Possible influence of organic sulfur incorporation on optical features and chemical structures of perhydrous vitrinite in coals of western Pennsylvania (abstract): American Chemical Society, Division of Geochemistry, 206th ACS National Meeting, abstract 96.

Zhang, E., G.D. Mitchell, A. Davis, and P.G. Hatcher, 1994, The effect of organic sulfur incorporation on reflectance and fluorescence properties of vitrinite in western Pennsylvania coals (abstract): American Chemical Society, 208th ACS National Meeting, Division of Geochemistry, abstract 27.

Zieger, L., R. Littke, C. Hartkopf-Fröder, and J. Schwarzbauer, 2020, Comparative geochemical and pyrolytic study of coals, associated kerogens, and isolated vitrinites at the limit between subbituminous and bituminous coal: International Journal of Coal Geology, v. 227, 103517.

Zou, Y.-R., and P. Peng, 2001, Overpressure retardation of organic-matter maturation: a kinetic model and its application: Marine and Petroleum Geology, v. 18, p. 707-713.