

AIZENSHTAT Z., KREIN E.B., VAIRAVAMURTHY A. i GOLDSTEIN T.P. (1995): Role of Sulfur in the Transformations of Sedimentary Organic Matter: A Mechanistic Overview. *Geochemical Transformations of Sedimentary Sulfur*. (Eds. Vairavamurthy A. i Schoonen M.A.A.) 16-35. *Am. Chem. Society*, Washington.

ANTAL M.J. i VÁRHEGYI G. (1997): Impact of Systematic Errors on the determination of Cellulose Pyrolysis Kinetics. *Energy & Fuels* **11**, 1309-1310.

ANTAL M.J., VÁRHEGYI G. i JAKAB E. (1998): Cellulose Pyrolysis Kinetics. *Ind. Eng. Chem. Res.* **37**, 1267-1275.

ANTAL M.J., GR? NLI M. i VÁRHEGYI G. (1999): A round-robin study of cellulose pyrolysis kinetics by thermogravimetry. *Ind. Eng. Chem. Res.* **38**, 2238-2244.

BARRET P. (1973): *Cinetique Heterogene*. Gauthier-Villars, París.

BASKIN D.K. i PETERS K.E. (1992): Early generation characteristics of sulphur-rich Monterey kerogen. *Bull. Am. Assoc. Pet. Geol.* **76**, 1-13.

BONET A.J., IBARRA J.V. i MOLINER R. (1995): Thermal Behaviour of Sulphur Forms in Spanish Low-Rank Coals. *Coal Science*. (Eds. Pajares J.A. i Tascón J.M.D) 1665-1668. *Elsevier Science*, Oviedo.

BORREGO A.G., PRADO J.G., FUENTE E., GUILLÉN M.D. i BLANCO C.G. (1995): Relationships Between Petrographic Composition and Thermal Behaviour of some Spanish Oil Shales. *Coal Science*. (Eds. Pajares J.A., Tascón J.M.D.) 283-286. *Elsevier Science*, Oviedo.

BRAUN R.L. i BURNHAM A.K. (1987): Analysis of chemical reaction kinetics using a distribution of activation energies and simpler models. *Energy & Fuels* **1**, 153-161.

BRAUN R.L., BURNHAM A.K., REYNOLDS J.G. i CLARKSON J.E. (1991): Pyrolysis kinetics for lacustrine and marine source rocks by programmed micropyrolysis. *Energy & Fuels* **5**, 192-204.

BROWN M.E. (1988): Reaction Kinetics from Thermal Analysis. *Introduction to Thermal Analysis: Techniques and Applications*. (Ed. Brown M.E.) 127-137. *Chapman i Hall*, Nova York.

BROWN M.E., DOLLIMORE D. i GALWEY A.K. (1980): Reactions in the Solid State. *Comprehensive Chemical Kinetics*. (Ed. Brown M.E.) 22-23. Elsevier, Amsterdam.

BUDRUGEAC P., PETRE A.L. i SEGAL E. (1996): Some problems concerning the evaluation of nonisothermal kinetic-parameters- Solid-gas decompositions from thermogravimetric. *Journal of Thermal Analysis* **47**, 123-134.

BURNHAM A.K. (1990): Pyrolysis Kinetics and composition for Posidonia Shale. Lawrence Livermore National Laboratory Report UCRL-ID-105871.

BURNHAM A.K. (1998): Comment on “experiments on the role of water in petroleum formation “ by M.D. Lewan. *Geochim. Cosmochim. Acta* **62**, 2207-2210.

CARRASCO F. (1993): The evaluation of kinetic parameters from thermogravimetric data- Comparison between established methods and the general analytical equation. *Thermochim. Acta*, **213**, 115-134.

COATS A.W. i REDFERN J.P. (1964): Kinetic parameters from thermogravimetric data. *Nature* **201**, 68-69.

COLLETT G.W. i RAND B. (1980): Thermogravimetric investigation of the pyrolysis of pitch materials. A compensation effect and variation in kinetic parameters with heating rate. *Thermochim. Acta* **41**, 153-165.

CONESA J.A., FONT R. i MARCILLA A. (1997): Mass-spectrometry validation of a kinetic-model for the thermal-decomposition of tyre wastes. *J. Anal. Appl. Pyrol.* **43**, 83-96.

CRIADO J.M., ORTEGA A. i GOTOR F. (1990): Correlation between the shape of controlled-rate thermal analysis curves and the kinetics of solid-state reactions. *Thermochim. Acta* **157**, 171-179.

DAVIDSON R.M. (1994): Quantifying organic sulfur in coal. *Fuel* **73**, 988-1005.

DELMON B. (1969): Introduction a la Cinetique Heterogene, Editions Technip, Paris.

DI PRIMIO R. i HORSFIELD B. (1996): Predicting the generation of heavy oils in carbonate/evaporitic environments using pyrolysis methods. *Org. Geochem.* **24**, 999-1016.

DOLIGEZ B., BESSIS F., BURRUY., UNGERER P. i CHENET P.Y. (1986): Integrated numerical simulation of sedimentation heat transfer, hydrocarbon formation and fluid migration in a sedimentary basin: The themis model. *Thermal Modeling in Sedimentary Basins*, 173-198.

DOLLIMORE D., GAO X. i CHEN D (1993): A generalized form of the Kissinger equation. *Thermochim. Acta* **215**, 109-117.

DOYLE C.D. (1961): Kinetic analysis of thermogravimetric data. *J. Appl. Polymer Sci.* **5**, 285-292.

ELMQVIST H., ASTRÖM K.J. i SCHÖNTHAL T. (1986): Simnon User's Guide for MS-DOS Computers, Version 1. Department of Automatic Control. Sweden.

FONT R. i GARCÍA A.N. (1995): Application of the transition-state theory to the pyrolysis of biomass and tars. *J. Anal. Appl. Pyrol.* **35**, 249-258.

FONT R., MARTÍN I., ESPERANZA M. i FULLANA A. (2000): Kinetic law for solids decomposition. Application to thermal degradation of heterogeneous materials. *J. Anal. Appl. Pyrol. In Press*.

FREEMAN H.L. i CARROLL B. (1958): The application of thermoanalytical techniques to reaction kinetics. The thermogravimetric evaluation of the kinetics of the decomposition of calcium oxalate monohydrate. *J. Phys. Chem.* **62**, 394-397.

FRIEDMAN H.L. (1963): Kinetics of thermal degradation of char-forming plastics from thermo-gravimetry. Applications to a phenol plastic. *J. Polymer Sci.* **6C**, 183-195.

FULLER E.L., KOPP O.C. i ROGERS M.R. (1995): Thermogravimetric and Mass Spectroscopic Analyses of Solvent-Refined Powellton coal, West Virginia (U.S.A.). *Coal Science*. (Eds. Pajares J.A. i Tascón J.M.D.) 889-900. *Elsevier Science*, Oviedo.

GALWEY A.K. (1982): The interpretation of solid-state kinetics. *Proc. 7th Int. Conf. Thermal Analysis*, Wiley-Heyden, Chichester, 1, 38-53.

GAPONIK P.N. i VYAZOVKIN (1990): Thermal decomposition of tetrazole-containing polymers. I. poly-5-vinyltetrazole thermolysis. *Thermochim. Acta* **168**, 211.

GE E. i WERT C. (1990): Spatial Variation of Organic Sulfur in Coal. *Geochemistry of Sulfur in Fossil Fuels*. (Eds. Orr W.L. i White C.M.) 317-325. *Am. Chem. Soc.*, Washington.

GRANCH J.A. i POSTHUMA J. (1973): The Origin of Sulphur in Crudes. *Advances in Organic Geochemistry*. (Eds. Tissot B. i Biennet F.) 727-739. *Technip*, París.

HALIKIA I. i ECONOMACOU A. (1993): Application of various methods of nonisothermal kinetic-analysis to magnesium-hydroxide decomposition. *Int. J. Chem. Kinet.* **25**, 609-631.

HE HUANG, BODILY M.D. i HUCKA J.V. (1995): Gas Evolution in the Programmed-Temperature Pyrolysis of Coal. *Coal Science*. (Eds. Pajares J.A. i Tascón J.M.D.) 1243-1248. *Elsevier Science*, Oviedo.

HUNT J.M., LEWAN M.D. i HENNET R.J. (1991): Modeling oil generation with time-temperature index graphs based on Arrhenius equation. *Bull. Am. Assoc. Pet. Geol.* **75**, 795-807.

JARVIE D.M. (1991): Factors affecting Rock-Eval derived kinetic parameters. *Chem. Geol.* **93**, 79-99.

KEATTCH C.J. i DOLLIMORE D. (1975): Introduction to Thermogravimetry. 2nd ed. Heydon. 45

KISSINGER H.E. (1957): Reaction kinetics in differential thermal analysis. *Anal. Chem.* **29**, 1702-1706.

KOGA N., MALEK J., SESTAK J. i TANAKA H. (1993): *Calorimet. Therm. Anal.* **20**, 210.

KÖK M.V. i OKANDAN E. (1996): Kinetic analysis of DSC and thermogravimetric data on combustion of lignite. *Journal of Thermal Analysis* **46**, 1657-1669.

KÖK M.V. (1997): Thermal Analysis of Beypazari Lignite. *Journal of Thermal Analysis* **49**, 617-625.

KÖK M.V., HUGHES R. i PRICE D. (1997): Combustion Characteristics of crude oil-limestone mixture. High pressure thermogravimètric analysis and their relevance to in-situ combustion. *Journal of Thermal Analysis* **49**, 609-615.

KREIN E.B. i AIZENSHTAT Z. (1993): Phase-transfer-catalyzed reactions between polysulfide anions and alpha beta-unsaturated carbonyl-compounds. *Org. Chem.* **58**, 6103-6108.

KROUSE H.R. i YONGE C.J. (1990): Carbon Isotope Fractionation during Oxidation of Light Hydrocarbon Gases. *Geochemistry of Sulfur in Fossil Fuels*. (Eds. Orr W.L. i White C.M.) 633-641. *Am. Chem. Soc.*, Washington.

LE CLAIRE A.D. (1976): Treatise on Solid State Chemistry. *Plenum Press*, Nova York, Vol.4, p-1

LERCHE I. (1988): Inversion of multiple thermal indicators: quantitative methods of determining paleoheat flux and geological parameters. I. Theoretical development for paleoheat flux and geological parameters. *Math. Geol.* **20**, 1-36.

LEVCHIK S.V., BOLVANOVICH E.E., LESNIKOVICH A.I., IVASHKEVICH. O.A., GAPONIK P.N. i VYAZOVKIN S.V. (1990): *Thermochim. Acta* **168**, 211.

LEVENSPIEL O. (1979): The Chemical Reactor Omnibook, OSU Book Stores, Corvallis O.R., pp. 55.24-55.25.

LEWAN M.D. (1993): Organic Geochemistry Principles and Applications. (Eds. Engel M.H. i Macko S.A.) 419-442. *Plenum Press*, Nova York.

LEWAN M.D. (1998a): Reply to the comment by A.K. Burnham on "Experiments on the role of water in petroleum formation. *Geochim. Cosmochim. Acta* **62**, 2211-2216.

LEWAN D.M. (1998b): Sulphur radical control on formation rates. *Nature* **391**, 164-166.

LINERT W. i JAMESON R.F. (1989): The isokinetic relationship. *Chem. Soc. Rev.* **18**, 477-505.

MAES I.I., GRYGLEWICZ G., YPERMAN J., FRANCO D.V., MULLENS J. i VAN POUCKE L.C. (1997): Effect of calcium and calcium minerals in coal on its thermal analysis. *Fuel* **76**, 143-147.

MARTIN G. (1993). In Supplement S: The Chemistry of the Sulphur-Containing Functional Groups. (Eds. Patai S. i Rappoport Z.) 395-437. *John Wiley & Sons*, Chichester,

MIANOWSKI I.A. i RADKO T. (1993): Isokinetic effect in coal pyrolysis. *Fuel* **72**, 1537-1540.

NARAYAN R. i ANTAL M.J. (1996): Thermal lag, fusion and the compensation effect during Biomass Pyrolysis. *Ind. Eng. Chem. Res.* **35**, 1711-1721.

NAWADA H.P. (1994): Discussion on the correctness of the rate expression for nonisothermal kinetics. *Thermochim. Acta*, **242**, 239-241.

NELSON B.C., EGLINTON T.I., SEEWALD J.S., VAIRAVAMURTHY A. i MIKNIS P. (1995): Transformations in Organic Sulfur Speciation During Maturation of Monterey Shale: Constraints from Laboratory Experiments. *Geochemical Transformations of Sedimentary Sulfur*. (Eds. Vairavamurthy A. i Schoonen M.A.) 138-166. *Am. Chem. Soc.*, Washington.

OLIVELLA M.A. (1995): Influència del sofre en la generació d'hidrocarburs. [Projecte fi de carrera]. Escola Tècnica Superior d'Enginyers Industrials de Terrassa.

OPFERMANN J. i KAISERSBERGER E. (1992): An Advantageous variant of the Ozawa-Flynn-Wall analysis. *Thermochim. Acta* **203**, 167-175.

OZAWA T. (1992): Estimation of activation energy by isoconversion methods. *Thermochim. Acta* **203**, 159-165

POPESCU C. (1996): Integral method to analyze the kinetics of heterogeneous reactions under nonisothermal conditions- a variant on the Ozawa-Flynn-Wall Method. *Thermochim. Acta* **285**, 309-323.

POPESCU C. i SEGAL E. (1983): On the temperature range of the decomposition in non-isothermal kinetics. *Thermochim. Acta*, **70**, 359-362.

POPESCU C. i SEGAL (1992): More on the correct rate expression in nonisothermal kinetics. *Thermochim. Acta* **210**, 329-330.

POPESCU C. i SEGAL E. (1994): On 2-term rate-equations in nonisothermal kinetics. *Thermochim. Acta* **235**, 11-16.

POPESCU C. i SEGAL E. (1998): Critical Considerations on the methods for evaluating Kinetic Parameters from Nonisothermal Experiments. *International Journal of Chemical Kinetics* **30**, 313-327.

POWELL T.G., COOK P.J. i MCKIRDY D.M. (1975): Organic geochemistry of phosphorites-relevance to petroleum genesis. *Am. Assoc. Bull. Petrol.* **59**, 618-632.

RAGHAVAN V. i COHEN M. (1975): Treatise on Solid State Chemistry, *Plenum Press*, New York, vol.5, p.67.

REYNOLDS J.G., BURNHAM A.K. i MITCHELL O.T. (1995): Kinetic analysis of California petroleum source rocks by programmed temperature micropyrolysis. *Org. Geochem.* **23**, 109-120.

RUBLE T.E. (1996): Geochemical investigation of the mechanisms of hydrocarbon generation and accumulation in the Uinta basin, Utah. Tesi doctoral, Universitat d' Oklahoma.

SBIRRAZZUOLI N., GIRAULT Y. i ELEGANT L. (1995): Simulations for evaluation of kinetic methods in differential scanning calorimetry.1.Application to single-peak methods- Freeman-Carroll, Ellerstein, Achar-Brindley-Sharp and multiple linear-regression methods. *Thermochim. Acta* **260**, 147-164.

SEGAL E. i FATU D. (1983): Introduction to Non-Isothermal Kinetics. Editura Academiei, RSR: Bucharest. Cap.5

SEGAL E., URBANOVICI E. i POPESCU C. (1996): On the validity of the steady-state approximation in nonisothermal kinetics.2. *Thermochim. Acta* **274**, 173-177.

SESTAK J. i BERGGREN G. (1971): Study of the kinetics of the mechanism of solid-state reactions at increasing temperatures. *Thermochim. Acta* **3**, 1-12.

SESTAK J., SATAVA J. i WENDLANDT W. W. (1973): The study of heterogeneous processes by thermal analysis. *Thermochim. Acta* **7**, 333-336.

SHARP J.H., BRINDLEY G.W. i NARAHARI ACHAR B.N. (1966): *J.Amer. Ceram. Soc.* **49**, 379-382.

SHMID R. i SAPUNOV V.N. (1982): Non-formal Kinetics, *Verlag Chemie*, Weinheim e.a.

SINNINGHE DAMSTÉ J.S. i de LEEUW J.W. (1990): The origin and fate of isoprenoid C₂₀ and C₁₅ sulfur compounds in sediments and oils. *Org. Geochem.* 1077-1101.

STROME K.O. (1990): Thermodynamic restrictions on non-isothermal chemical reaction rates. *Thermochim Acta* **161**, 1-21.

STOCK L.M. i WOLNY R. (1990). Elemental Sulfur in Bituminous Coals. *Geochemistry of Sulfur In Fossil Fuels*. (Eds. Orr W.L. i White C.M.) 241-248. *Am. Chem. Soc.*, Washington.

TANAKA H. (1995): Thermal analysis and kinetics of solid state reactions. *Thermochim. Acta* **267**, 29-44.

TANNENBAUM E. i AIZENSHTAT (1984): Formation of immature asphalt from organic-rich carbonate rocks II: correlation of maturation indicators. *Org. Geochem.* 503-511.

TANNENBAUM E. i AIZENSHTAT Z. (1985): Formation of immature asphalt from organic-rich carbonate rocks-I. Geochemical correlations. *Org. Geochem.* **8**, 181-192.

TEGELAAR E. i ROHINTON N.A. (1993): Kinetics of hydrocarbon generation as a function of the molecular structure of kerogen as revealed by pyrolysis-gas chromatography. A *Advances in Organic Geochemistry* **549**, 543-474.

TEGELAAR E.W., DE LEEUW J.W., DERENNE S. i LARGEAU C. (1993): A reappraisal of kerogen formation. *Geochim. Cosmochim. Acta* **53**, 3103-3106.

TISSOT B.P. i WELTE D.H. (1984): Petroleum formation and occurrence, 2^a edició. 699 pàgs. *Springer-Verlag*, Heidelberg.

TORRES-ORDÓÑEZ R.J., CALKINS W.H. i KLEIN M.T. (1990): Distribution of Organic-Sulfur-Containing Structures in High Organic Sulfur Coals. *Geochemistry of Sulfur in Fossil Fuels*. (Eds. Orr W.L. i White C.M.) 289-295. *Am. Chem. Soc.*, Washington.

UNGERER P. (1989): State of the art of research in kinetic modellig of oil formation and expulsion. *Advances in Organic Geochemistry* **16**, 1-25.

VACHUSKA I. i VOBORIL M. (1971): Kinetic data computation from non-isothermal thermogravimetric curves of non-uniform heating rate. *Thermochim. Acta*, **2**, 379-392.

VAIRAVAMURTHY A. i MOPPER K. (1989): Biogenic sulfur in the environment. (Eds. Saltzman E.S. i Cooper W.C.) 231-242. *Am. Chem. Soc.*, Washington.

VAIRAVAMURTHY A., MANOWITZ B., LUTHER G.W. III i JEON Y.J. (1993): Oxidation-state of sulfur in thiosulfate and implications for anaerobic energy-metabolism. *Geochim. Cosmochim. Acta* **57**, 1619-1623.

VOGUE H.H. i GOOD G.M. (1949): Thermal cracking of higher paraffins. *J. Amer. Chem. Soc.* **71**, 593-597.

VORONKOV M.G. i DERYAGINA E.N. (1990): Chemistry of Organosulfur Compounds-General Problems. (Eds. Belenkii L.I. i Horwood E.) 48. *Chichester*.

VYAZOVKIN S. (1993): An approach to the solution of the inverse kinetic problem in the case of complex processes. 4. Chemical-reaction complicated by diffusion. *Thermochim. Acta* **223**, 201-206.

VYAZOVKIN S. (1994): Conversion dependence of activation energy for model DSC curves of consecutive reactions. *Thermochim. Acta* **236**, 1-13.

VYAZOVKIN S.V. (1996): A unified approach to kinetic processing of nonisothermal data. *Int. J. Chem. Kinet.* **28**, 95-101.

VYAZOVKIN S.V. i LESNIKOVICH A.I. (1990): An approach to the solution of the inverse kinetic problem in the case of complex processes. Part 1. Methods employing a series of thermoanalytical curves. *Thermochimica Acta* **165**, 273-280.

VYAZOVKIN S.V. i LINERT W. (1995a). Detecting isokinetic relationships in nonisothermal systems by isoconversional method. *Thermochim. Acta* **269**, 61-72.

VYAZOVKIN S. i LINERT S. (1995b): Kinetic Analysis of Reversible thermal decomposition of solids. *Int. J. Chem. Kinet.* **27**, 73-83.

VYAZOVKIN S.V. i DOLLIMORE D. (1996): Linear and nonlinear procedures in isoconversional computations of the activation-energy of nonisothermal reactions in solids. *Journal of Chemical Information and Computer Sciences* **36**, 42-45.

VYAZOVKIN S.V., LESNIKOVICH A.I. i LYUTSKO V.A. (1990): Thermal decomposition of tetrazole. Part II. Kinetic analysis. *Thermochim. Acta* **165**, 17-22.

VYAZOVKIN S., BOGDANOVA V.V., KLIMOVTSOVA I.A. i LESNIKOVICH A.I. (1991): Invariant kinetic-parameters of polymer thermolysis. 4. Influence of fire-retardant additives on polypropylene thermolysis. *J. Appl. Polim. Sci.* **44**, 2157-2160.

VYAZOVKIN S.V., GORYACHKO V. i LESNIKOVICH A.I. (1992): An approach to the solution of the inverse kinetic problem in the case of complex processes. 3. Parallel independent reactions. *Thermochim. Acta* **197**, 41-51.

VYAZOVKIN S.V., GORYACHKO V., BOGDANOVA V. i GUSLEV V. (1993a): Thermolysis kinetics of polypropylene on rapid heating. *Thermochim. Acta* **215**, 325-328.

VYAZOVKIN S.V., LEVCHIK G.F, GORYACHKO V.I., VYAZOVKINA A.I., i LESNIKOVICH A.I. (1993b): Extrapolation kinetic problems solved by indiscriminating methods. *Thermochim. Acta* **215**, 315-324.

WILBURN F.W. (1999): The determination of kinetic parameters from DTG curves-fact or fiction?. *Thermochim. Acta* **340-341**, 77-87.

WILLIAMSON M.A. i RIMSTIDT J.D. (1992): Correlation between structure and thermodynamic properties of aqueous sulfur species. *Geochim. Cosmochim. Acta* **56**, 3867-3880.

ZSAKÓ J. (1996): Kinetic analysis of thermogravimetric data XXIX. Remarks on the 'many curves' methods. *Journal of Thermal Analysis* **46**, 1845-1863.