

TWA references

T. Hashimoto, Y. Matsui, A. Hagiwara, A. Miyamoto, Thermal diffusivity measurement of polymer films by the temperature wave method using Joule-heating, *Thermochim. Acta*, 163, 317-324(1990).

T. Hashimoto, T. Tsuji, Thermal diffusivity measurement of polyethylene melt by a new temperature wave method, *J. Therm. Anal.* 40, 721-726(1993).

Junko Morikawa, Aoi Kobayashi, and Toshimasa Hashimoto, Thermal diffusivity in a binary mixture of poly(phenylene oxide) and polystyrene, *Thermochim. Acta*, 267, 1 (1995).

Junko Morikawa, Junji Tan, and Toshimasa Hashimoto, Study of change in thermal diffusivity of amorphous polymers during glass transition, *Polymer* 36, 4439 (1995).

Junko Morikawa, and Toshimasa Hashimoto, Study on Thermal Diffusivity of Poly(ethylene terephthalate) and Poly(ethylene naphthalate), *Polymer* 38, 5397 (1997).

Toshimasa Hashimoto, Junko Morikawa, Tsuyoshi Kurihara, and Takayuki Tsuji, Frequency Dependent Thermal Diffusivity of Polymers by Temperature Wave Analysis, *Thermochim. Acta* 299, 95 (1997).

Junko Morikawa, Toshimasa Hashimoto, and Gal Sherbelis, Thermal Diffusivity of Thermosetting Materials by Temperature Wave Analysis, *Thermochim. Acta* 299, 95(1997).

Junko Morikawa, and Toshimasa Hashimoto, Thermal Diffusivity Measurement of Papers by an AC Joule Heating Method, *Polymer Int.* 45, 207 (1998).

Junko Morikawa, and Toshimasa Hashimoto, Analysis of High-Order Harmonics of Temperature Wave for Fourier Transform Thermal Analysis, *Jpn. J. Appl. Phys.* 37, L1484 (1998).

Akikazu Maesono, Youichi Takasaki, Yukio Maeda, Ronald P. Tye, Junko Morikawa, and Toshimasa Hashimoto, A new apparatus for thermal diffusivity and specific heat measurements of films and liquids by means of Fourier Transform Thermal

Analysis, *High Temp. High Press.* 34, 127 (2002).

Junko Morikawa, Toshimasa Hashimoto, and Akikazu Maesono, Simultaneous measurement of thermal diffusivity, heat capacity, and thermal conductivity by Fourier Transform Thermal Analysis, *High Temp. High Press.* 33, 387 (2001).

Junko Morikawa, Toshimasa Hashimoto, Simultaneous measurement of heat capacity and thermal diffusivity in solid-solid and solid-liquid phase transitions of n-alkane, *Thermochim. Acta*, 352/353, 291 (2000).

Junko Morikawa, Toshimasa Hashimoto, *J. Thermal analysis and Calorimetry*, 64, 403 (2001).

森川淳子、山本暁、陳寧媚、橋本寿正、温度波熱分析法-液体試料の熱物性測定への応用-熱測定 29, 27 (2002).

T. Hashimoto, J. Morikawa and C. Sawatari, Relaxation Behavior of ultradrawn poly(ethylene) by temperature wave analysis, *J. Thermal Analysis and Calorimetry* 70, 693 (2002).

Tadakazu Miyata, Kanako Inaki, Junko Morikawa, Rahmat Satoto, Toshimasa Hashimoto, Effects of copolyester/polycarbonate blend composition on the thermal diffusivity of dye transfer, *J. Appl. Polym. Sci.* 92, 72 (2004).

R. Satoto, J. Morikawa, and T. Hashimoto, Effect of catalysts on thermally stimulated current in poly(ethylene terephthalate), *J. Thermal Analysis and Calorimetry* 70 713 (2002).

宮本奈緒子、森川淳子、橋本寿正、熱拡散率からみた有機分子結晶の相転移、熱測定 30, 98 (2003).

Toshimasa Hashimoto, Junko Morikawa, Two-dimensional thermal analysis on freezing of onion epidermal cell by high-speed infrared microscopic camera, *Jpn. J. Appl. Phys.* 42, L706 (20

J. Morikawa, T. Hashimoto, A. Kishi, Y. Shinoda, K. Ema, and H. Takezoe, Critical anomalies in thermal diffusivity of liquid crystalline terephthal-bis-(4- n - butylaniline), *Phys. Rev. E*, 87, 022501 (2013).

J. Morikawa, E. Hayakawa, T. Hashimoto, Two-dimensional Thermal Analysis of Organic and Polymeric Materials with cooled and uncooled infrared cameras, *Advances in Optical Technologies* 2012, 484650 (2012).

A. Orie, J. Morikawa, T. Hashimoto, Micro-scale thermal diffusivity measurements of banded spherulites of poly-(l-lactic acid) using a thermo-electric micro sensor, *Thermochim. Acta*, 532, 148-151 (2012).

J. Morikawa, E. Hayakawa, T. Hashimoto, R. Buividas, S. Juodkasis, Thermal imaging of a heat transport in regions structured by femtosecond laser, *Opt. Exp.*, 19, 20542-20550 (2011).

総説・著書

橋本寿正、森川淳子 最新熱測定 2003 (分担) アグネ技術センター.

森川淳子 橋本寿正 新版熱分析第2章 小澤丈夫編 (分担) 講談社サイエンスティフィク 2005.

森川淳子 橋本寿正 丸善実験化学講座 第5版 (分担) 熱拡散率・熱伝導率.

橋本壽正、森川淳子 樹脂の硬化度・硬化挙動の測定と評価方法 32. 熱伝導率・熱拡散率 (分担) p419-427, サイエンス&テクノロジー 2007.

橋本寿正、森川淳子、温度波熱分析法 熱物性, vol.15 No.2(2001) 113-117

橋本壽正 森川淳子、熱伝導率測定方法、ポリファイル 2011年 9月号

橋本寿正、森川淳子 熱測定 33, 58-65 2006 赤外線カメラを用いた顕微高速二次元熱分析法

森川淳子、橋本寿正、熱拡散率測定からみたプラスチック成形品の高次構造変化と物性分布 成形加工 18, 859-864 (2006)

熱を制御する材料開発と計測技術 橋本壽正、森川淳子、未来材料 2007年8月号

橋本壽正、森川淳子 温度波熱分析法、ポリファイル 2009年 8月号

橋本壽正、森川淳子 高分子における熱伝導現象測定方法と標準化、高分子 2010年2月 p.73

森川淳子、橋本壽正 熱伝導の新測定法が国際標準 産学連携ジャーナル Vol. 6, No. 5, p11-13, 2010

森川淳子 熱拡散率測定法の標準化-その10年の歩み-Vol.80 2010 No.11 47-53
金属 2010年11月

ISO 22007-3: 2008 Plastics - Determination of thermal conductivity and thermal diffusivity - Part 3: Temperature wave analysis method.

ISO 22007-6: 2014 Plastics - Determination of thermal conductivity and thermal diffusivity - Part 6: Comparative method for low thermal conductivities using a temperature modulation technique