JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS

AUTHOR INFORMATION PACK

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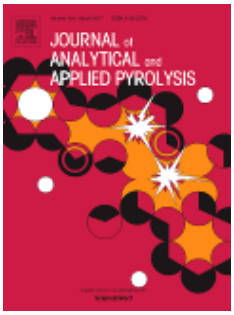

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DESCRIPTION

The international *Journal of Analytical and Applied Pyrolysis* is devoted to the publication of qualitative and quantitative results relating to:

- **Controlled pyrolysis** (thermal degradation, thermolysis) of chemical materials, including synthetic and natural macromolecules as well as lower molecular weight chemicals.

- Fundamental studies of **pyrolysis processes** by chemical, physical and physicochemical methods.

- Studies of pyrolysis **reaction kinetics**, energetics, and mechanisms.

- Technical developments and new instrumentation for pyrolysis techniques in combination with chromatographic or spectroscopic **methods**.

- **Analytical pyrolysis**, namely the characterization of a material by chemical degradation reactions induced by thermal energy or by thermally assisted decomposition reactions.

- Environmental, geochemical, biological, medical, and forensic applications of **analytical pyrolysis**.

- Pyrolysis investigations of **energy**-related problems, looking for relationships between pyrolysis conditions and product characteristics (i.e. fossil/synthetic fuels, biomass derivatives, thermal catalytic products, coal liquefaction products).

- Automation, optimization and standardization of pyrolysis **techniques**.

- **Computer** handling and **processing** of pyrolysis **data**, including library filing and retrieval techniques, and computer matching and advanced pattern recognition techniques.

- Studies in **high temperature chemistry** of synthesis and decomposition reactions.

- **Applied pyrolysis**, i.e. the use of pyrolysis methods, including thermal cracking, catalytic cracking, hydrothermal treatments, in the disposal of waste materials, in exploiting biomass resources, in fossil fuel transformations for the production of energy, valuable chemicals or engineering materials.

The Journal does not consider studies based solely on:

- thermal analysis, unless combined with the chemical characterisation of the thermal degradation products (e.g. TG-MS, TG-FTIR);

- chemical activation for the synthesis of activated carbons;

- characterisation and application of pyrolysis products, unless clearly related to/aimed at understanding the influence/details of pyrolysis process and conditions;

- theoretical studies, kinetic modelling etc. which are not complemented/validated with experimental data;

- combustion, incineration, unless specifically related to the pyrolysis process.

AUDIENCE

Analytical Chemists; Researchers involved in Chromatography, Mass Spectrometry, and Polymer Science; Geochemists, Technologists in Plastic and Rubber Industries; Bacteriologists; Food and Medical Chemists.

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INTRODUCTION

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- Environmental, geochemical, biological, medical, and forensic applications of analytical pyrolysis;
- Technical developments and new instrumentation for pyrolysis techniques in combination with chromatographic or spectroscopic **methods** .
- **Analytical pyrolysis** , namely the characterization of a material by chemical degradation reactions induced by thermal energy or by thermally assisted decomposition reactions.
- Environmental, geochemical, biological, medical, and forensic applications of **analytical pyrolysis** .
- Pyrolysis investigations of **energy** -related problems, looking for relationships between pyrolysis conditions and product characteristics (i.e. fossil/synthetic fuels, biomass derivatives, thermal catalytic products, coal liquefaction products).
- Automation, optimization and standardization of pyrolysis **techniques** .
- **Computer** handling and **processing** of pyrolysis **data** , including library filing and retrieval techniques, and computer matching and advanced pattern recognition techniques.
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- chemical activation for the synthesis of activated carbons;
- characterization and application of pyrolysis products, unless clearly related to/aimed at understanding the influence/details of pyrolysis process and conditions;
- theoretical studies, kinetic modelling etc. which are not complemented/validated with experimental data;
- combustion, incineration, unless specifically related to the pyrolysis process.

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[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. https://doi.org/10.17632/xwj98nb39r.1.

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length *l*; metre: m
mass *m* kilogram kg; gram g
time*t*; second s; minute min; hour h
thermodynamic temperature *T*; kelvin K
Celcius temperature *t*,* degree Celcius C
amount of substance *n*; mole mol
molar mass *M*; kg mol-1
concentration (amount) *c*; mol dm-3, mol l-1
molality *m*; mol kg-1
pressure *p*; pascal Pa
energy*E*; joule J
heat *q*, Q; joule J
power, heat flow rate *P*,ø; watt W
volume *V*; m3; litre l, L
chemical potential (partial molar Gibbs energy) μJ mol-1
viscosity: dynamic η Pa s ; kinematic μ m s-1

Prefixes

10-1 d; 10-2 c (centi); 10-3 m (milli); 10-6μ (micro); 10-9 n (nano); 10-12 p (pico); 10-15 f (femto); 10-18 a (atta)

10 da (deca); 102 h (hecto); 103 k (kilo); 106 M (mega); 109 G (giga); 1012 T (tera); 1015P (peta); 1018 E (exa)

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