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AEC Tr-4753

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NASA TT F-2529

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A process is given for preparation of aromatic carboxylic acids by oxidation of an aralkyl compound in acetic acid, in the presence of a cobaltous catalyst. The process is characterized in that ozone is used to initiate the reaction and that oxygen is passed into the reaction mixture, which is maintained at a temperature of 90 to 110°C. The water content of the reaction mixture is maintained below 0.1 parts by weight of water per part of acetic acid.

(Chemistry--Physical, TT, v. 5, no. 12)

61-10827

1. Chemical reactions--
Analysis
2. Title: Oxidation process
1. Hay, A. S.
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(Chemistry--Organic, TT, v. 5, no. 12)

61-10826

1. Ketones--Synthesis
 2. Carboxylic acids--
Synthesis
 3. Cyclic compounds--
Oxidation
 4. Catalysts--Effectiveness
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DESCRIPTORS: *Dielectric films, *Reflection,
Differential equations.

(Physics--Optics, TT, v. 11, no. 4)

TT-63-22725

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Office of Technical Services

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*Titanium, Design, Tests, *Microphones.

62-20162

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FPRB Trans. no. 154
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DESCRIPTORS: *Lignin, *Carbohydrates, Chemical
bonds, *Phenols, *Glucosides, *Xylose, Chromato-
graphic analysis, Hydrolysis, Hydroxides, Glycoside
hydrolases.

(See also NRCC C-4294)

(Biological Sciences--Biochemistry, TT, v. 10, no. 3)

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- II. Title: Studies ...
- III. FPRB Trans-154
- IV. NRCC C-4388
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DESCRIPTORS: *Lignin, *Carbohydrates, Separation,
Chemical bonds, *Paper chromatography.

(Chemistry--Analytical, TT, v. 9, no. 9)

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- I. Hayaishi, A.
- II. Title: Study...
- III. FPRB Trans-153
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AEC Tr 2911

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On the Mechanism of the So-Called Freeze Phenomenon
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Sci-Biol & Med Sci
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Progress, No 48, 1961, pp. 298-305,
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NRC-69-16899-111

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Order from SLA \$4.60 TT-63-20375

Trans. of [Nihon Seirigaku Zasshi] (Japan) 1964,
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DESCRIPTORS: *Cells (Biology), *Physiology, *Bio-
physics, Water, *Pressure, Cytochemistry,
Metabolism, Stimulation, Ecology.

In many structural cells, their activity is increased
and their functions are promoted when the environmental
hydraulic pressure is raised to $\times 10^2$ atmospheres.
Physically and chemically, the pressure of this kind
brings about a change in the degree of dissociation,
viscosity and enzyme activity of the cell components
(Biological Sciences--General, TT, v. 11, no. 3) (over)

TT-63-20375

I. Hayashi, K.

1207835

Office of Technical Services

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Recent Progress in Radiation Chemistry on
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Vol 5, No 12, 1963, pp 997-1005.
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19p. (8 refs. omitted)
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Trans. of Kagaku to Kogyo, Osaka (Japan) 1960, v. 34,
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DESCRIPTORS: *Sulfur, Carbon, *Activated carbon,
Chemical reactions, Desulfurization, Dehydrogenation,
Synthesis, Physical properties, Adsorption.

The preparation and properties of sulfur containing
carbons are reviewed.

(Chemistry--Physical, TT, v. 7, no. 1)

61-18695

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FLUORESCENT WHITENING AGENTS. 30 June 62,
13p. (includes continued) 7 refs.
Order from SLA \$1.60 62-14037

Trans. of Yuki Gosei Kagaku Kyokai Shi (Japan) 1955,
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DESCRIPTORS: *Fluorescence, *Dyes, Chemical
analysis, Chemical properties, *Organic compounds.

This article describes the chemical structure of
fluorescent whitening agents from the standpoint of
organic synthesis.

(Chemistry--Organic, TT, v. 18, no. 8)

62-14037

1. Tides Whiteners
2. Tides Optical Brightness
1. Hayashi, M.
2. Okazaki, M.

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