



# Field (Frank H.) papers

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## Summary Information

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<b>Repository:</b>	Rockefeller Archive Center
<b>Creator - aut:</b>	Field, F. H. (Frank Henry)
<b>Title:</b>	Frank H. Field papers, Rockefeller University Faculty
<b>ID:</b>	FA160
<b>Date [inclusive]:</b>	1946-1988
<b>Physical Description:</b>	7.48 Cubic Feet
<b>Language of the Material:</b>	English

### Preferred Citation

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## Biographical/Historical note

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Frank H. Field (1922- ), Camille and Henry Dryfus Professor at the Rockefeller University, headed the laboratory of physical chemistry and mass spectrometry. Dr. Field was a leader in the field of mass spectrometry and the study of reactions, energetics, and kinetics of gaseous ions.

Starting in 1972, with funds from the National Institutes of Health, his laboratory provided mass spectrometry services to biomedical workers and institutions in the New York metropolitan area.

In his early work in the petroleum industry, Dr. Field helped advance the analysis of materials of potential economic significance through the use of low-voltage mass spectrometry and chemical ionization mass spectrometry.

Dr. Field received his B.S. (1943), M.S. (1944) and Ph. D. (1948) degrees in chemistry from Duke University. From 1952-1962, he worked with the Humble Oil and Refining Co. and the Esso Research and Development Company. During 1963-1964, Dr. Field was a John Guggenheim Fellow at the University of Leeds. He received a faculty appointment at the Rockefeller University in 1970 and became Dryfus professor in 1988. Dr. Frank H. Field retired in 1989.

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## Scope and Contents note

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Correspondents include Wilbur Burnaby, Hyp J. Dauben, Jr., Vernon Dibeler, William Doering, A.A. Draeger, Mark G. Inghram, Frederick W. Lampe, W.F. Libby, Einar Lindholm, F.P. Lossing, Fred L. Mohler, R.S. Mullikan, R.I. Reed, and Henry M. Rosenstock.

Subjects include chemical ionization mass spectrometry, gaseous anion chemistry, Humble Oil, reversible reactions of gaseous ions, reaction kinetics, reactions of gaseous ions, and peptide sequencing.

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## Arrangement note

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Arranged in chronological and in alphabetical order.

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## File Plan note

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Former Classification: I 450 F454

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## Administrative Information

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## Revision Description

Revised 1990 June 8 by Lee Hitzik. Paper finding aid converted to EAD/XML by AureXus in 2010. Imported into the Archivists' Toolkit by Becky Robbins. 1990, 2010

## Conditions Governing Access note

Open for research as noted. Brittle or damaged items are available at the discretion of RAC. Researchers interested in accessing digital media (floppy disks, CDs, DVDs, etc.) or audiovisual material (audio cassettes, VHS, etc.) in this collection must use an access surrogate. The original items may not be accessed because of preservation concerns. To request an access surrogate be made, or if you are unsure if there is an access surrogate, please contact an archivist.

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## Controlled Access Headings

- Cell and biomolecular sciences
- Chemistry
- Biochemistry
- Mass spectrometry
- Rockefeller Institute for Medical Research
- Rockefeller University

## Collection Inventory

### Reprints, 1946-1988

Physical Description: 1.32 Cubic Feet

#### Arrangement note

Arranged in chronological order.

Title/Description	Instances	
The Vapor Pressures of Some Organic Fluorides, J. of Am. Chem. Soc., 68 (1946) : 2649-2650, 1946 August 10	box 1	folder 1
The Absorption Spectra of Certain Nickel (II) and... J. of Am. Chem. Soc., 72 (1950) : 4232-4235, 1950 February 13	box 1	folder 2

The Ionization Potential of Cyclopropane... J. of Chem. Phys., 18 (1950) : 1122-1123, 1950 May 29	box 1	folder 3
A New Calculation of the Latent Heat of... J. of Chem Phys., 19, no. 6 (1951) : 793, 1951 April 10	box 1	folder 4
The Dissociation of Cyclopropane Under Electron Impact, J. of Chem. Phys., 20, no. 11 (1952) : 1734-1739, 1952 February 21	box 1	folder 5
The Resonance Energies of Certain Organic Free Radicals and Ions, J. of Am. Chem Soc., 75 (1953) : 2819, 1952 April 7	box 1	folder 6
Electron Impact Studies of the Vinyl Ion and Radical, J. of Chem. Phys., 21 (1953) : 1506-1510, 1952 December 11	box 1	folder 7
The Energies of Strained Carbonium Ions, J. of Chem. Phys., 21, no. 3 (1953) : 550-551, 1953 January 5	box 1	folder 8
Some Aspects of the Dissociation of Benzene... J. of Chem. Phys., 21, no. 11 (1953) : 2082-2083, 1953 August 14	box 1	folder 9
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Determination of Unsaturated Hydrocarbons by... Analy. Chem., 28 (1956).-1248-1255, 1956	box 1	folder 14
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RGI. VI. Hydride Ion Transfer Reactions, J. of Am. Chem. Soc., 80 (1958) : 5587-5592, 1958 June 12	box 1	folder 20
The Decomposition of Neopentane... J. of Am. Chem. Soc., 81 (1959) : 3238-3241, 1958 September 27	box 1	folder 21
The Addition of Ethyl Radicals to Ethylene, Canadian J. of Chem., 37 (1959) : 995-998, 1958 December 29	box 1	folder 22

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Russian Paper on CH <sub>5</sub> <sup>+</sup> , 33, no. 3 (1959) : 732-733	box 1	folder 25
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Mass Spectrometer Reveals Inert Gas Ions, Chem. and Eng. News., 39 (1961) : 32-33, 1961 December 25	box 1	folder 30
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Benzene Production in the Radiation... J. of Phys. Chem., 68 (1964) : 1039-1047, 1963 October 12	box 1	folder 36
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Peptide Sequencing: The Utility of Chemical... Biomed. Mass Spect. 4, no. 3 (1977) : 159-171, 1976 July 16	box 2	folder 51
Rotational Isomerism in Leucine: Proton... J. of Am. Chem. Soc., 99 (1977) : 2953-2957, 1976 August 16	box 2	folder 52
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Drug Interactions with Methadone, Annals of the New York Academy of Sciences, 281 (1976) : 350-370, 1976 December 10	box 2	folder 54
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Correlation between Exothermicity Rate and... J. of Am. Chem. Soc., 100 (1978) : 1356-1359, 1977 March 22	box 3	folder 3
Hepatic Extraction of Long-and Short-Acting... Gastroenterology, 75 (1978) : 88-94, 1977 April 11	box 3	folder 4
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Ion Thermochemistry of Low-Volatility Compounds... J. of Am. Chem. Soc., 101 (1979) : 686-689, 1978 July 18	box 3	folder 8
Hydroxyl Ion Negative CIMS... Anal. Chem., 51 (1979) : 272-178, 1978 August 4	box 3	folder 9
Isotope Exchange Reactions of OH- or OD- with... J. of Am. Chem. Soc., 102 (1980) : 4672-4676, 1979 November 30	box 3	folder 10
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Effects of Liver Disease on Urinary Excretion... Biomed. Mass Spect., 7, no. 9 (1980) : 385-395, 1980 March 17	box 3	folder 12
CIMS of L-Methionine and... Biomed. Mass Spect., 8, no. 3 (1981) : 95-98, 1980 March 27	box 3	folder 13
Internal and External Solvation of Polyfunctional... J. of Am. Chem. Soc., 102 (1980) : 6393-6399, 1980 April 18	box 3	folder 14
Gaseous Anion Chemistry. Hydrogen-Deuterium... J. of Am. Chem. Soc., 45 (1980) : 3483-3492, 1980 May 6	box 3	folder 15
High-Performance Digital Timing System, Anal. Chem., 52 (1980) : 1923-1928, 1980 May 27	box 3	folder 16

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252 Cf Fission Fragment Ionization Mass... J. of Am. Chem. Soc., 104 (1982) : 5519-5521, 1982 May 24	box 3	folder 23
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Short Communication. Structures of Metabolites... Drug Metabolism and Disposition, 12, no. 6 (1984) : 784-786, 1983 October 19	box 3	folder 29
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Quantification of the Sulfates of 16-Hydroxy... Steroids, 50 (1987) : 4-6, 1987	box 3	folder 45
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Analysis of Lithium Using a Commercial... J.R. Lloyd and F.H. Field, 1978-1980	box 4	folder 2

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Anderson, J.A., Jr., 1954		
Anderson, Robbin C., 1953		
Applied Physics Corporation, 1957		
Applied Research Laboratories, 1953		
Atkins, Marc, 1964		
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Balaban, Al, 1958		
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Barnes, Earle B., 1958		
Barton, Henry A., 1956		
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Bauer, S.H., 1961		
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Boeder, D., 1964		
Boren, Hoolis G., 1960		
Boudart, M., 1960		
Brandt, Preston L., 1958		
Brown, A.E., 1964		

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Buchta, J.W., 1956		
Burnaby, Wilbur, 1963-1964		
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Calcotte, H.F., 1963		
Cameron, Thomas B., 1952		
Carlson, T.A., 1962		
Carman, Max F., Jr., 1962		
Caves, Tom, undated		
Ceskoslovenska Akademie, 1959		
Chalmers, J., 1954		
Cloyd, W. P., 1953		
Collin, Jacques E., 1963		
Cook, C.J., 1963		
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Davis, Clyde L., 1954		
Davis, Jeff C., Jr., 1960		
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Doering, William, 1957-1958		
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Fansteel Metallurgical Corp., 1955		
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Ferguson, H.W., 1955		
Filbert, Bryson M., 1952		
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Fineman, Morton A., 1962		
Forster, E.D., 1962		
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Marker, H.J., 1958		
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Herman, Zdenek, 1964		

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Humble Oil, 1964		
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Spokes, G. Neil, 1961		
Steiner, Bruce, 1960		
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Texas Academy of Science, undated		
Thomas, L.I., 1963		
Thomas, W.A., 1953		
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University of New South Wales, 1962		
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