



# Field (Frank H.) papers

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## Summary Information

<b>Repository:</b>	Rockefeller Archive Center
<b>Creator:</b>	Rockefeller Institute for Medical Research
<b>Creator - aut:</b>	Field, F. H. (Frank Henry)
<b>Creator:</b>	Rockefeller University
<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

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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### Publication Statement

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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

This collection is open for research.

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## Controlled Access Headings

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- Cell and biomolecular sciences
- Chemistry
- Biochemistry
- Mass spectrometry
- Rockefeller Institute for Medical Research
- Field, F. H. (Frank Henry)
- Rockefeller University

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## Physical Characteristics and Technical Requirements

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Materials requiring specialized equipment for access (film, audio, video, slides) may be closed to research dependent on availability of the applicable equipment

Brittle or damaged items, or materials otherwise in need of preservation care, may be closed to researchers at the discretion of the RAC Head of Archival Services/Head of Reference.

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## Collection Inventory

### Reprints, 1946-1988

Physical Description: 1.32 Cubic Feet

#### Arrangement note

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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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Gas Phase Ionic Reactions, Methane and Ethylene, J. of Am. Chem. Soc., 78 (1956) : 5697, 1956 September 14	box 1	folder 12
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Determination of Unsaturated Hydrocarbons by... Analy. Chem., 28 (1956).-1248-1255, 1956	box 1	folder 14
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Cross Sections for Ionization by Electrons, J. of Am. Chem. Soc., 79 (1957) : 6129-6132, 1957 March 30	box 1	folder 16
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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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Reactions of Ions with Molecules in... Tetrahedron 7, nos. 3/4 (1959) : 189-205, 1959 April 8	box 1	folder 24
Russian Paper on CH <sub>5</sub> <sup>+</sup> , 33, no. 3 (1959) : 732-733	box 1	folder 25
RGI. VIII. Multiple Order Ion. Molecule... J. of Am. Chem. Soc., 83 (1961) : 1523-1534, 1960 September 23	box 1	folder 26
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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
Kinetics of the Reactions of... Progress in Reaction Kinetics 1 (1961) : 69, 1961	box 1	folder 31
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A Mass Spect. Study of Homonuclear... J. of Phy. Chem., 67 (1963) : 1542-1548, 1963 February 18	box 1	folder 33
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RGI. CIII. The System Methane-Hydrogen. J. of Am. Chem. Soc., 85 (1963) : 3584-3588, 1963 July 29	box 1	folder 35
Benzene Production in the Radiation... J. of Phys. Chem., 68 (1964) : 1039-1047, 1963 October 12	box 1	folder 36

A High Pressure Mass Spect. Study of... Advances in Mass Spect., 3 (1964) : 359-375, 1964 June 24	box 1	folder 37
High Pressure Mass Spectrometric Study... J. of Phys. Chem., 68 (1964) : 3098-3107, 1964 July 10	box 1	folder 38
Ionic Reactions and Radiolysis of CH <sub>4</sub> , J. of Chem. Phys., 42, no. 1 (1965) : 442-443, 1964 August 3	box 1	folder 39
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CIMS. Accounts of Chem. Research... Accounts of Chem. Res., 1 (1968) : 42, 1967 August 7	box 1	folder 50
Advances in Mass Spectrometry, Adlard & Son Ltd., 4 (1967) : 6456, 1967 September 6	box 1	folder 51
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CIMS. Temperature Effects in Tertiary... J. of Am. Chem. Soc., 94 (1972) : 2913-2919, 1971 July 3	box 2	folder 11
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On the Negative Temperature Dependence of... J. of Phys. Chem., 78 (1974) : 1773-1774, 1974	box 2	folder 37
Decomposition Rates of Excited Reaction... J. of Am. Chem. Soc., 97 (1975) : 5339-5345, 1975 February 10	box 2	folder 38
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C-Methylation: An Artifact in Peptides... Biomed. Mass Spect., 2 (1975) : 254-260, 1975 May 5	box 2	folder 40
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Thermodynamic Ionization Energies and... Chem. Phys. Letters., 44, no. 3 (1976) : 484-489, 1976 April 6	box 2	folder 48
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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
Proton Affinities and Cluster... J. of Chem. Phys., 66, no. 10 (1977). 4527-4531, 1976 September 8	box 2	folder 53
Drug Interactions with Methadone, Annals of the New York Academy of Sciences, 281 (1976) : 350-370, 1976 December 10	box 2	folder 54
Thermal and Nonthermal Decompositions... J. of Am. Chem Soc., 99 (1977) : 5576-5583, 1977 January 20	box 3	folder 1
Reference Lineshape Adjusted Difference NMR... J. of Magnetic Resonance, 28 (1977) : 93-104, 1977 February 8	box 3	folder 2
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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Bonding Energies in Assoc. Ions of... J. of Am. Chem. Soc., 100 (1978). 5466-5471, 1978 January 10	box 3	folder 6
[OH] - Negative CIMS... Biomed. Mass Spect., 5, no. 10 (1978) : 572-575, 1978 January 24	box 3	folder 7
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
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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
Analysis of Lithium Using a... Biomed. Mass Spect., 8, no. 1 (1981) : 19-24, 1980 July 29	box 3	folder 17
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Cholest-5-ene-3B, 26-diol: Synthesis... Biomed. Mass Spect., 9, no. 2 (1982) : 61-63, 1981 January 14	box 3	folder 19
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Fast Atom Bombardment Study of Glycerol... J. of Phys. Chem., 86 (1982) : 5115-5123, 1982 June 18	box 3	folder 24
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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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Ionization Methods in Mass Spect... Advances in Mass Spect., (1985) : 271-186, 1985	box 3	folder 40
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Cf Plasma Desorption Fourier Transform Mass... Int. J. of Mass Spect. and Ion Proc., 87 (1978) : 305-313, 1986 November 24	box 3	folder 42
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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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Physical Description: 0.88 Cubic Feet

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Adamson, Arthur W., 1952		
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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		
Baldock, Russell, 1958		
Barnes, Earle B., 1958		
Barton, Henry A., 1956		
Baschkin, B.B., 1962		
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Boren, Hoolis G., 1960		
Boudart, M., 1960		
Brandt, Preston L., 1958		
Brown, A.E., 1964		
Brown, W.J., 1953		
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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		
Detrick, S.R., 1952		
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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		
Fox, Russell E., 1958 1961-1962		
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Hainge, R.F., 1955		
Hallett, L.T., 1957-1959		

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National Science Foundation, 1956 1962		
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Shriner, Ralph L., 1955		
Shull, Harrison, 1962		
Slack, Wayne A., 1964		
Smith, Noyes D., Jr., 1958		
Spears, Mitchell, 1955		
Spokes, G. Neil, 1961		
Steiner, Bruce, 1960		
Stescie, E.W.R., 1960		
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Stout, J.W., 1960-1963		
Sugden, T.M., 1962		
Svec, Harry J., 1958		
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Sylvania Electric Products, Inc., 1955		
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Taylor, Archibald L., Jr., 1952		
Texas Academy of Science, undated		
Thomas, L.I., 1963		
Thomas, W.A., 1953		
Thyme, John, 1964		
Tickner, A.W., 1961-1962		
Tompkins, F.C., 1956 1962		
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Tuffly, B.L., 1958		
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University of New South Wales, 1962		
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Wahrhaftig, Austin L., 1963-1964		
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### **Custodial History**

Added to the collection, March 2006.

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