

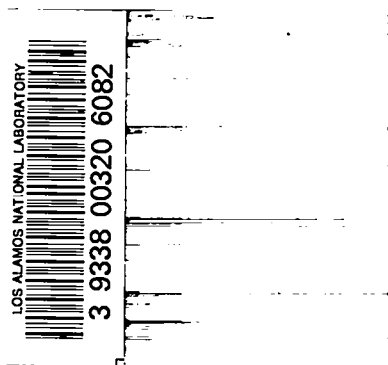
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A Bibliography on
Nuclear Magnetic Resonance
of Inorganic Fluorides



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Compiled by

Jean Furnish



A BIBLIOGRAPHY ON
NUCLEAR MAGNETIC RESONANCE OF INORGANIC FLUORIDES

INTRODUCTION

For this bibliography only volumes 51 (1957) through 65 (1966) of Chemical Abstracts were consulted. Inorganic fluorides alone, in solvents of any sort, and in complexes with organic and inorganic molecules have been included. All references were indexed under "nuclear magnetic resonance" in Chemical Abstracts.

Most of the references included in this bibliography were published in the period 1957-1966. However, since the search was confined to specific volumes of Chemical Abstracts, and all references therefrom were included, it will be noted that there are some citations earlier than 1957. It may also be pointed out that in order to obtain a somewhat more complete list of references for 1966 it would be necessary to go beyond the cut-off point of volume 65 of Chemical Abstracts. It was not possible to do this in the present case.

Entries in this bibliography are arranged by year with the earliest given first, then alphabetically by author's name. For each item the location of the Chemical Abstracts entry is given following the bibliographic citation. This includes volume and column location number only, i.e., 63:7866f indicates the item is from volume 63 of Chemical Abstracts, and the location is at 7866f within that volume.

1956

NUCLEAR RESONANCE SPECTRA AND THE STRUCTURES OF THE MONO- AND DIHYDRATE OF BORON TRIFLUORIDE
P. T. Ford and R. E. Richards
J. Chem. Soc. 3870-4 (1956)
51:1669d

NITRYL FLUORIDE: A NEW METHOD OF PREPARATION, NUCLEAR MAGNETIC SPECTRUM, AND STRUCTURE
Richard A. Ogg, Jr., and James D. Ray
J. Chem. Phys. 25, 797-8 (1956)
51:1760f

NUCLEAR MAGNETIC RESONANCE STUDIES OF SOME INORGANIC MOLECULES AND IONS
Richard Edwin Poulson
UCRL-3567, 59 pp. (1956)
51:9304i

NUCLEAR RELAXATION IN ANTIFERROMAGNETIC CRYSTALS
J. van Kranendonk and M. Bloom
Physica 22, 545-60 (1956)
52:9775e

1957

NUCLEAR MAGNETIC RESONANCE IN CoF_2 AND FeF_2
J. M. Baker and W. Hayes
Phys. Rev. 106, 603-4 (1957)
51:17432d

FLUORINE-19 NUCLEAR-MAGNETIC-RESONANCE LINE SHAPES IN CALCIUM FLUORIDE
C. R. Bruce
Phys. Rev. 107, 43-5 (1957)
52:1755e

NUCLEAR MAGNETIC RESONANCE STUDIES OF THE ALUMINUM FLUORIDE COMPLEXES
Robert E. Connick and Richard E. Poulson
J. Am. Chem. Soc. 79, 5153-7 (1957)
52:3512d

NUCLEAR MAGNETIC RESONANCE STUDIES OF BF_3 COMPLEX FORMATION
P. Diehl and R. A. Ogg
Nature 180, 1114 (1957)
52:4312c

NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC IRON GROUP FLUORIDES
V. Jaccarino, R. G. Schulman, and J. W. Stout
Phys. Rev. 106, 602-3 (1957)
51:17432c

NUCLEAR MAGNETIC RESONANCE (n.m.r.) IN ANTIFERROMAGNETIC MnF_2
V. Jaccarino and R. G. Schulman
Phys. Rev. 107, 1196-7 (1957)
52:2549c

NUCLEAR MAGNETIC RESONANCE IN SINGLE-CRYSTAL LITHIUM FLUORIDE DOWN TO 1.5°K
Frank J. Low and C. F. Squire
Bull. Am. Phys. Soc. (2), 2, 103 (1957)
52:12546d

FREE-INDUCTION DECAYS IN SOLIDS
I. J. Lowe and R. E. Norberg
Phys. Rev. 107, 46-61 (1957)
52:1755f

LEWIS CHARACTER OF TELLURIUM HEXAFLUORIDE
E. L. Muettterties and W. D. Phillips
J. Am. Chem. Soc. 79, 2075 (1957)
51:12724h

STRUCTURE OF ClF_3 AND EXCHANGE STUDIES ON SOME HALOGEN FLUORIDES BY NUCLEAR MAGNETIC RESONANCE (n.m.r.)

E. L. Muetterties and W. D. Phillips
J. Am. Chem. Soc. 79, 322-6 (1957)
52:2528d

NUCLEAR MAGNETIC RESONANCE SPLITTINGS IN VERY WEAK FIELDS (35-15 GAUSSES)

Dominique P. Roux and George J. Bene
J. Chem. Phys. 26, 968-9 (1957)
51:12646i

NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC MANGANOUS FLUORIDE

R. G. Shulman and V. Jaccarino
Phys. Rev. 108, 1219-31 (1957)
52:5965a

1958

CHEMICAL SHIFT AND THE FINE STRUCTURE OF THE SIGNALS OF NUCLEAR MAGNETIC RESONANCE. I. EXPERIMENTAL METHOD AND THE INVESTIGATION OF THE SYSTEM $\text{HF-H}_2\text{O}$

P. M. Borodin and F. I. Skripov
Izvest. Vysshikh Ucheb. Zavedneii, Radiofiz, No. 3, 37-49 (1958)
53:12000b

EFFECT OF ENVIRONMENT ON THE FLUORINE MAGNETIC RESONANCE IN SOLUTIONS OF POTASSIUM FLUORIDE

Alan Carrington and Theodore Hines
J. Chem. Phys. 28, 727-8 (1958)
52:12561a

TETRAFLUOROHYDRAZINE

Charles B. Colburn and Al Kennedy
J. Am. Chem. Soc. 80, 5004 (1958)
53:6859i

ELECTROLYTE EFFECTS ON NUCLEAR MAGNETIC RESONANCE FREQUENCIES OF FLUORINE IN AQUEOUS SOLUTIONS

Robert E. Connick and Richard E. Poulson
J. Phys. Chem. 62, 1002-4 (1958)
53:865i

NUCLEAR RESONANCE SPECTRUM AND STRUCTURE OF SULFUR TETRAFLUORIDE

F. A. Cotton, J. W. George, and J. S. Waugh
J. Chem. Phys. 28, 994-5 (1958)
52:15252c

NUCLEAR MAGNETIC RESONANCE STUDIES OF BORON TRIFLUORIDE COMPLEX FORMATION

P. Diehl
Helv. Phys. Acta 31, 685-712 (1958)
53:17673b

STUDY OF BORON TRIFLUORIDE COMPLEXES BY NUCLEAR MAGNETIC RESONANCE

P. Diehl and J. Gränacher
Helv. Phys. Acta 31, 43-4 (1958)
52:19656b

THE STRUCTURE OF LIQUID ANTIMONY PENTAFLUORIDE

Charles J. Hoffman, Bert E. Holder, and William L. Jolly
J. Phys. Chem. 62, 364-6 (1958)
52:11496b

MAGNETIC RESONANCE LINE SHAPES AT THE ONSET OF SATURATION

D. F. Holcomb
Phys. Rev. 112, 1599-1603 (1958)
53:19572i

NUCLEAR RESONANCE SIGNALS OBTAINED BY DYNAMIC POLARIZATION

Andre Landesman
Compt. rend. 246, 1538-40 (1958)
52:12560h

PROTON RESONANCE SPECTRA OF SOME CRYSTALS CONTAINING NITROGEN AND FLUORINE

J. B. Leane and R. E. Richards
Spectrochim. Acta 10, 154-60 (1958)
52:9755d

ELECTRON-NUCLEAR DOUBLE RESONANCE OF F CENTERS IN LITHIUM FLUORIDE

Norman W. Lord
Phys. Rev. Letters 1, 170-1 (1958)
52:17964h

NUCLEAR MAGNETIC RESONANCE IN LITHIUM FLUORIDE

F. J. Low and C. F. Squire
Phys. and Chem. Solids 5, 85-8 (1958)
53:8814g

CHEMISTRY OF SOME SULFUR OXYFLUORIDES

E. L. Muetterties and D. D. Coffman
J. Am. Chem. Soc. 80, 5914-18 (1958)
53:4997g

INDIRECT COUPLING OF NUCLEAR SPINS IN AN ANTI-FERROMAGNET WITH PARTICULAR REFERENCE TO MnF_2 AT VERY LOW TEMPERATURES

Tsutso Nakamura
Progr. Theoret. Phys. (Kyoto) 20, 542-52 (1958)
53:10970b

NUCLEAR MAGNETIC RESONANCE (N.M.R.) STUDIES OF COORDINATE COMPLEX FORMATION BY BORON TRIFLUORIDE

Richard A. Ogg, Jr., and Peter Diehl
Chem. Co-Ord. Compds., Symp., Rome 1957, 468-75 (Pub. 1958)
58:2041c

NUCLEAR MAGNETIC RESONANCE STUDIES OF COORDINATE COMPLEX FORMATION BY BORON TRIFLUORIDE

Richard A. Ogg, Jr., and Peter Diehl
J. Inorg. and Nuclear Chem. 8, 468-75 (1958)
53:5942f

LITHIUM-7 AND FLUORINE-19 NUCLEAR MAGNETIC RESONANCES IN NEUTRON-IRRADIATED LITHIUM FLUORIDE

P. J. Ring, J. G. O'Keefe, and P. J. Bray
Phys. Rev. Letters 1, 453-4 (1958)
53:6769e

DOUBLE NUCLEAR RESONANCE IN CRYSTALS OF LITHIUM FLUORIDE

E. E. Schneider and K. Thompson
J. Phys. Radium 19, 834-6 (1958) (in French)
53:8814e

NUCLEAR MAGNETIC RESONANCE OF FLUORINE IN FLUORO-SILANES

Erhard Schnell and Eugene G. Rochow
J. Inorg. Nucl. Chem. 6, 303-7 (1958)
52:17963d

- ORIGIN OF NUCLEAR MAGNETIC RESONANCE SHIFTS IN PARA-MAGNETIC MANGANESE TRIFLUORIDE
R. G. Schulman and V. Jaccarino
Phys. Rev. 109, 1084-5 (1958)
52:11578a
- 1959
- THE FORM OF RESONANCE LINES IN RIGID SYSTEMS
Anatole Abragam and Jacques Michel Winter
Compt. rend. 249, 1633-4 (1959)
54:18058g
- PRINCIPLES OF PHOSPHORUS CHEMISTRY. IV. THE SYSTEM OF FLUOROPHOSPHORIC ACIDS
Donald P. Ames, Shigeru Ohashi, Clayton F. Callis, and John R. Van Wazer
J. Am. Chem. Soc. 81, 6350-7 (1959)
54:11792d
- NUCLEAR MAGNETIC RESONANCE STUDY OF FLUORINE IN SILVER FLUORIDE AND SILVER SUBFLUORIDE
Q. Won Choi
Univ. Microfilms (Ann Arbor, Mich.), L.C. Card No. Mic 59-1611, 97 pp.; Dissertation Abstr. 20, 111 (1959)
53:18632a
- F¹⁹ NUCLEAR MAGNETIC RESONANCE OF VARIOUS METAL-FLUORIDE COMPLEXES IN AQUEOUS SOLUTION
Robert E. Connick and Richard E. Poulson
J. Phys. Chem. 63, 568-9 (1959)
53:15772e
- STRUCTURE SENSITIVITY OF THE HIGH-FREQUENCY NUCLEAR MAGNETIC RESONANCE IN POWDERED ANTIFERROMAGNETIC MnF₂
J. L. Davis, G. E. Devlin, V. Jaccarino, and A. L. Schawlow
Phys. and Chem. Solids 10, 106-9 (1959)
54:1076g
- EXCHANGE PROCESSES IN HALOGEN FLUORIDES
A. N. Hamer
J. Inorg. and Nuclear Chem. 9, 98-9 (1959)
53:8779e
- STUDY OF SOME CORROSIVE FLUORIDES BY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
A. N. Hamer, J. Leece, and P. G. Bentley
U. K. At. Energy Authority Ind. Group IGR-TN/CA-1048, 13 pp. (1959)
53:15772f
- NUCLEAR MAGNETIC RESONANCE STUDIES OF NEUTRON-IRRADIATED ALKALI HALIDES
J. F. Hon and P. J. Bray
Phys. and Chem. Solids 11, 149-69 (1959)
54:5250e
- DIRECT OBSERVATION OF THE HYPERFINE STRUCTURE (hfs) OF A PARAMAGNETIC ION IN AN ANTIFERROMAGNET. NUCLEAR MAGNETIC RESONANCE OF COBALT-59 IN COBALTOUS FLUORIDE
V. Jaccarino
Phys. Rev. Letters 2, 163-5 (1959)
53:8815d
- EFFECTS OF THE COBALT-59 HYPERFINE STRUCTURE ON THE FLUORINE-19 HIGH-FREQUENCY NUCLEAR MAGNETIC RESONANCE IN ANTIFERROMAGNETIC CoF₂
V. Jaccarino
J. Chem. Phys. 30, 1627-8 (1959)
53:19573d
- NUCLEAR MAGNETIC RESONANCE IN ANTIFERROMAGNETIC MnF₂
V. Jaccarino and L. R. Walker
J. Phys. Radium 20, 341-3 (1959)
53:21181h
- DIFLUOROAMINE
Al Kennedy and Charles B. Colburn
J. Am. Chem. Soc. 81, 2906-7 (1959)
53:15844b
- FREE INDUCTION DECAY OF ROTATING SOLIDS
I. J. Lowe
Phys. Rev. Letters 2, 285-7 (1959)
54:2013c
- NUCLEAR MAGNETIC RESONANCE FREQUENCY SHIFT OF Co⁵⁹ IN CoF₂
Toru Moriya
Phys. Chem. Solids 11, 175-6 (1959)
54:5250f
- STRUCTURE OF EXCHANGE PROCESSES IN SOME INORGANIC FLUORIDES BY NUCLEAR MAGNETIC RESONANCE
E. L. Muetterties and W. D. Phillips
J. Am. Chem. Soc. 81, 1084-8 (1959)
53:10974b
- CRYSTALLINE FIELD SPLITTING IN FERROUS FLUOSILICATE
Taichiro Ohtsuka
J. Phys. Soc. Japan 14, 1245 (1959)
54:9502a
- REACTION OF PEROXYDISULFURYL DIFLUORIDE WITH SULFUR DIOXIDE AND FLUORINE
John E. Roberts and George H. Cady
J. Am. Chem. Soc. 81, 4166-7 (1959)
54:3030h
- STUDY ON THE HYDROGEN BOND IN NH₄HF₂ BY NUCLEAR MAGNETIC RESONANCE
Tsunahiko Shidei and Shukuro Yano
J. Chem. Phys. 30, 1109-10 (1959)
53:16701a
- OBSERVATION OF THE COBALT-59 NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC SALTS
R. G. Shulman
Phys. Rev. Letters 2, 459-60 (1959)
54:2948h
- HIGHER-ORDER TRANSITIONS IN DOUBLE RESONANCE
Ko Sugihara
J. Phys. Soc. Japan 14, 1054-63 (1959)
55:17230b
- CALCULATION OF THE ACID FUNCTION AND MOLECULAR COMPOSITION OF HYDROFLUORIC ACID FROM NUCLEAR MAGNETIC RESONANCE DATA FOR FLUORINE-19
E. Z. Utyanskaya, A. U. Stepanyants, M. I. Vinnik, and N. M. Chirkov
Doklady Akad. Nauk S.S.S.R. 124, 1095-8 (1959)
55:8018g

1960

NUCLEAR MAGNETIC RESONANCE (NMR) IN ANTIFERROMAGNETIC MnF_2 UNDER HYDROSTATIC PRESSURE

G. B. Benedek and T. Kushida
Phys. Rev. 118, 46-57 (1960)
54:23745g

FLUORINE RESONANCE SPECTRUM OF PERCHLORYL FLUORIDE

S. Brownstein
Can. J. Chem. 38, 1597-9 (1960)
55:1189d

PHOSPHONITRILIC DERIVATIVES. III. CYCLIC PHOSPHONITRILIC FLUORIDES

A. C. Chapman, N. L. Paddock, D. H. Paine, H. T. Searle, and D. R. Smith
J. Chem. Soc. 3608-14 (1960)
55:3263d

NUCLEAR MAGNETIC RESONANCE (NMR) LINE SHIFTS OF FLUORINE IN AgF AND Ag_2F

Q. Won Choi
J. Am. Chem. Soc. 82, 2686-9 (1960)
54:23743a

HFS OF F^{19} IN THE ELECTRON PARAMAGNETIC RESONANCE OF $Mn:ZnF_2$

A. M. Clogston, J. P. Gordon, V. Jaccarino, M. Peter, and L. R. Walker
Phys. Rev. 117, 1222-35 (1960)
54:23749f

TECHNIQUE FOR OBSERVATION OF THE NUCLEAR MAGNETIC RESONANCE OF SOME SHORT-LIVED NUCLIDES AND ITS APPLICATION TO THE MEASUREMENT OF THE NUCLEAR g -FACTOR OF Li^6

Donald Connor
U. S. At. Energy Comm. ANL-6263, 1-94 (1960)
55:8087c

NMR [NUCLEAR MAGNETIC RESONANCE] STUDIES ON MIXED BORON HALIDES. DETECTION OF THE NEW HALIDE $BBrClF$

T. D. Coyle and F. G. A. Stone
J. Chem. Phys. 32, 1892-3 (1960)
55:1261d

INDIRECT INTERACTIONS OF SPINS AND CROSSING OF FREQUENCIES IN HEXAFLUOROPHOSPHORIC ACID IN A WEAK FIELD

Ange Erbeia and Georges Bene
Compt. rend. 250, 3467-9 (1960)
54:22019g

CYANOGEN FLUORIDE

F. S. Fawcett and R. D. Lipscomb
J. Am. Chem. Soc. 82, 1509-10 (1960)
54:15050d

NUCLEAR MAGNETIC RESONANCE (N.M.R.) INVESTIGATION ON HYDROGEN BONDS AND IONIC REORIENTATION IN CRYSTALS. I. SALTS OF THE TYPE $(NH_4)_n BX_m$

Caffiero Franconi
Sci. Tec. 4 (4), 209-15 (1960)
61:7852c

NUCLEAR MAGNETIC RESONANCE (NMR) INVESTIGATION OF THE AsF_3-SO_3 REACTION

R. J. Gillespie and J. V. Oubridge
Proc. Chem. Soc. 308-9 (1960)
55:7128a

HYPERFINE STRUCTURE OF THE F CENTER IN LiF

W. C. Holtton, H. Blum, and C. P. Slichter
Phys. Rev. Letters 2, 197-200 (1960)
55:1191a

MOLECULAR STRUCTURE OF IODINE HEPTAFLUORIDE

Robert E. LaVilla and S. H. Bauer
J. Chem. Phys. 33, 182-6 (1960)
55:56g

THE ADDITION COMPOUNDS OF CYCLIC ETHERS WITH BORON TRIFLUORIDE

Donald E. McLaughlin, Milton Tamres, and Scott Searles, Jr.
J. Am. Chem. Soc. 82, 5621-5 (1960)
55:10424e

F^{19} SPECTRA OF PHOSPHORUS(V) FLUORIDES

W. Mahler and E. L. Muettterties
J. Chem. Phys. 33, 636 (1960)
55:5128e

HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE STUDIES OF FLUORINE COMPOUNDS

Virgil D. Mochel
Univ. Microfilms (Ann Arbor, Mich.), L. C. Card
No. Mic 60-1669, 153 pp.; Dissertation Abstr. 20, 4543 (1960)
54:17058i

THEORY OF MAGNETISM OF NiF_2

Toru Moriya
Phys. Rev. 117, 635-47 (1960)
54:23750b

CHEMISTRY OF PHOSPHORUS FLUORIDES

E. L. Muettterties, T. A. Bither, M. W. Farlow, and D. D. Coffman
J. Inorg. Nucl. Chem. 16, 52-9 (1960)
55:5214e

SULFUR TETRAFLUORIDE. IV. FLUORINATION OF INORGANIC OXIDES AND SULFIDES

A. L. Opegard, W. C. Smith, E. L. Muettterties, and V. A. Engelhardt
J. Am. Chem. Soc. 82, 3835-8 (1960)
55:197b

CHLORODIFLUOROAMINE

Robert C. Petry
J. Am. Chem. Soc. 82, 2400-1 (1960)
54:18147c

SOME REACTIONS OF FLUORINE FLUOROSULFONATES: IODINE TRIFLUORIDE BISFLUOROSULFONATE

John E. Roberts and George H. Cady
J. Am. Chem. Soc. 82, 354-5 (1960)
54:12861c

NUCLEAR MAGNETIC RESONANCE (NMR) IN $KMnF_3$

R. G. Shulman and K. Knox
Phys. Rev. 119, 94-101 (1960)
54:20491b

NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC FeF_2

J. W. Stout
Phys. Rev. 118, 1136-41 (1960)
54:23819f

ON THE F^{19} NMR [NUCLEAR MAGNETIC RESONANCE] SHIFT
IN CoF_2
Soichiro Toshima and Tsuto Nakamura
Mem. Fac. Sci., Kyushu Univ. Ser. B 3, 25-30 (1960)
55:16156c

1961

ANTIFERROMAGNETISM OF MIXED CRYSTALS OF ZINC AND
MANGANESE FLUORIDE
J. M. Baker, J. A. J. Lourens, and R. W. H.
Stevenson
Proc. Phys. Soc. (London) 77, 1039-41 (1961)
55:21819f

NUCLEAR MAGNETIC INTERACTIONS IN HYDROGEN FLUORIDE
Milton R. Baker, H. Mark Nelson, John A. Leavitt,
and Norman F. Ramsey
Phys. Rev. 121, 807-15 (1961)
55:8044i

NUCLEAR MAGNETIC RESONANCE (NMR) IN $(NH_4)_2(BeF_4)_x-$
 $(SO_4)_{1-x}$ AND OTHER FERROELECTRIC SYSTEMS
Gerald Burns
Phys. Rev. 123, 64-6 (1961)
55:19488c

THE VAPOR PRESSURES OF SOME HEAVY TRANSITION METAL
HEXAFLUORIDES
George H. Cady and George B. Hargreaves
J. Chem. Soc. 1563-74 (1961)
55:16048e

THE FLUORINE MAGNETIC RESONANCE IN THE IONS $[BF_4]^-$
AND $[BF_3CF_3]^-$
R. D. Chambers, H. C. Clark, L. W. Reeves, and G. J.
Wallis
Can. J. Chem. 39, 258-9 (1961)
55:13063f

PHOSPHONITRILIC DERIVATIVES. V. TRIPHOSPHONITRILIC
FLUORIDE CHLORIDES
A. C. Chapman, D. H. Paine, H. T. Searle, D. R.
Smith, and R. F. M. White
J. Chem. Soc. 1768 (1961)
57:6858f

SPIN-LATTICE RELAXATION TIME OF F^{19} NUCLEI IN Ag_2F
Q. Won Choi and W. Gilbert Clark
J. Chem. Phys. 34, 1584 (1961)
55:26678e

NATURE OF THE BOND BETWEEN BF_3 AND LACTAMS
E. F. J. Duynstee, W. van Raayen, J. Smidt, and
Th. A. Veerkamp
Rec. Trav. Chim. 80, 1323-33 (1961)
57:11013b

THE STRUCTURE OF THE ISOMERS OF N_2F_2
Raymond Ettinger, Frederic A. Johnson, and Charles
B. Colburn
J. Chem. Phys. 34, 2187-8 (1961)
55:24223c

ORIGIN OF THE F^{19} HYPERFINE STRUCTURE IN TRANSITION
ELEMENT FLUORIDES
A. J. Freeman and R. E. Watson
Phys. Rev. Letters 6, 343-4 (1961)
56:1081f

F^{19} NUCLEAR MAGNETIC RESONANCE IN POLYCRYSTALLINE
 MgF_2
S. K. Ghosh, J. Lahiri, and S. K. Sinha
Indian J. Phys. 32, 236-9 (1961)
55:23055f

POLYSULFURYL FLUORIDES

R. J. Gillespie, J. V. Oubridge, and E. A. Robinson
Proc. Chem. Soc. 428-9 (1961)
56:9688h

NUCLEAR MAGNETIC RESONANCE SATURATION IN $NaCl$ AND
 CaF_2
Walter I. Goldberg
Phys. Rev. 122, 831-6 (1961)
55:23057b

HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE [NMR]
SPECTRA OF PENTAFLUROSULFUR COMPOUNDS
R. K. Harris and K. J. Packer
J. Chem. Soc. 4736-40 (1961)
56:5555g

COORDINATION COMPOUNDS HAVING CARBOXYLIC ESTERS AS
LIGANDS. I. STOICHIOMETRY, STRUCTURE, AND STEREO-
CHEMISTRY
M. F. Lappert
J. Chem. Soc. 817-22 (1961)
55:16250i

BIS(PENTAFLUROSULFUR) PEROXIDE
Claude I. Merrill and George H. Cady
J. Am. Chem. Soc. 83, 298-300 (1961)
55:15204f

HIGH-RESOLUTION-NUCLEAR MAGNETIC RESONANCE (N.M.R.)
SPECTRA OF THE PENTAFLUROSULFUR GROUP
C. I. Merrill, S. M. Williamson, G. H. Cady, and
D. F. Eggers, Jr.
U. S. Dept. Com., Office Tech. Serv., AD 264,827,
14 pp (1961)
58:1072e

NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF SOME
HYPOFLUORITES
Claude I. Merrill and George H. Cady
U. S. Dept. Com., Office Tech. Serv., AD 264-827,
6 pp (1961)
58:2046b

MAGNETIC RESONANCE OF F^{19} NUCLEI IN FERROELECTRIC
 $(NH_4)_2-BeF_4$
G. M. Mikhailov, A. G. Lundin, and S. P. Gabuda
Zhur. Eksptl. i Teoret. Fiz. 41, 1370-4 (1961)
56:11096d

NUCLEAR INTERACTIONS IN DEUTERIUM FLUORIDE
H. Mark Nelson, John A. Leavitt, Milton R. Baker,
and Norman F. Ramsey
Phys. Rev. 122, 856-9 (1961)
55:21807b

ABSENCE OF ANTIFERROMAGNETIC DOMAIN WALLS IN MnF_2
P. S. Pershan
Phys. Rev. Letters 7, 280-1 (1961)
56:6778g

ELECTRICALLY INDUCED SHIFT OF THE F^{19} RESONANCE
FREQUENCY IN MnF_2
P. S. Pershan and N. Bloembergen
Phys. Rev. Letters 7, 165-7 (1961)
56:4276a

SULFUR-NITROGEN-FLUORINE COMPOUNDS. XI. STRUCTURE OF SOME SULFUR-NITROGEN-FLUORINE COMPOUNDS

Hans Richert and Oskar Glemser
Z. anorg. u. allgem. Chem. 307, 328-44 (1961)
55:24345e

CALCULATION OF CRYSTAL FIELD SPLITTING

R. G. Shulman and S. Sugano
Phys. Rev. Letters 7, 157-9 (1961)
56:6751a

NUCLEAR MAGNETIC RESONANCE IN $\text{CuF}_2 \cdot 2\text{H}_2\text{O}$ SINGLE CRYSTALS

R. G. Shulman and B. J. Wyluda
J. Chem. Phys. 35, 1498-9 (1961)
56:6812e

NUCLEAR MAGNETIC RESONANCE IN NiF_2 DOMAIN WALLS

R. G. Shulman
J. Appl. Phys. 32, Suppl. No. 3, 126-8 (1961)
55:23056c

NUCLEAR MAGNETIC RESONANCE (NMR) AND MAGNETIC ORDERING IN NiF_2

R. G. Shulman
Phys. Rev. 121, 125-43 (1961)
55:7048g

DOUBLE NUCLEAR MAGNETIC RESONANCE AND SPIN DIFFUSION IN LITHIUM FLUORIDE

George Henry Stauss
Univ. Microfilms (Ann Arbor, Mich.), Order No. 61-4162, 94 pp.; Dissertation Abstr. 22, 1684-5 (1961)
56:5555e

NUCLEAR MAGNETIC RESONANCE [NMR] IN $\text{NiSiF}_6 \cdot 6\text{H}_2\text{O}$ BELOW 1°K

Tadashi Sugawara
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Can. 1960, 108-10 (Pub. 1961)
56:8197c

FLUORINE NUCLEAR SPIN RESONANCE (NMR) SPECTROSCOPY. IV. SILICON-29 ISOTOPE EFFECT

G. V. Tiers
J. Inorg. Nucl. Chem. 16, 363-5 (1961)
55:15127d

THE DEPENDENCE OF THE MAGNETIC SCREENING OF F^{19} NUCLEI ON CONCENTRATION IN THE $\text{KHF}_2 \cdot \text{H}_2\text{O}$ AND $\text{KHF}_2 \cdot \text{KF} \cdot \text{H}_2\text{O}$ SYSTEMS

I-Ts'iu Vang and F. I. Skripov
Doklady Akad. Nauk S.S.S.R. 136, 58-60 (1961)
56:2095c

CHEMICAL DISPLACEMENTS OF THE FLUORINE NUCLEAR MAGNETIC RESONANCE SIGNALS IN IONIC CRYSTALS

I-Ch'iu Wang
Doklady Akad. Nauk S.S.S.R. 136, 317-19 (1961)
56:2095e

CHEMICAL SHIFT OF THE NUCLEAR MAGNETIC RESONANCE SPECTRUM OF F^{19} IN AQUEOUS SOLUTIONS CONTAINING F^- , HF_2^- , AND NH_4^+

I'Ch'iu Wang
Zhur. Strukt. Khim. 2, 367-8 (1961)
56:6812f

1962

FLUORINE PERCHLORATE, INFRARED AND NUCLEAR MAGNETIC RESONANCE [NMR] SPECTRA

H. Agahigian, A. P. Gray, and C. D. Vickers
Can. J. Chem. 40, 157 (1962)
56:8196f

NEEL TEMPERATURE OF MIXED CRYSTALS OF ZINC AND IRON GROUP FLUORIDES

J. M. Baker, J. A. J. Lourens, and R. W. H. Stevenson
J. Phys. Soc. Japan 17, Suppl. B-I, 478-80 (1962)
58:2046c

PROTON MAGNETIC RESONANCE (N.M.R.) STUDY OF THE WATER LATTICE DISTORTIONS IN AQUEOUS ALKALI HALIDE SOLUTIONS

M. S. Bergqvist and E. Forslind
Acta. Chem. Scand. 16, 2069-86 (1962)
58:7529f

THE NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF SOME HYPOFLUORITES

George H. Cady and Claude I. Merrill
J. Am. Chem. Soc. 84, 2260-2 (1962)
57:6772e

HYDROGEN FLUORIDE SOLVENT SYSTEM. XI. IRON PENTACARBONYLHYDROGEN FLUORIDE SYSTEM AND NUCLEAR MAGNETIC RESONANCE STUDIES OF TRANSITION METAL CARBONYLS

A. F. Clifford and M. D. Campbell
U. S. At. Energy Comm. TID-18199, 19 pp (1962)
60:15321f

NITROSODIFLUORAMINE

Charles B. Colburn and Frederick A. Johnson
Inorg. Chem. 1, 715-17 (1962)
57:9443i

INFRARED AND NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF A CYCLIC PERFLUOROAZO COMPOUND

E. A. V. Ebsworth and G. L. Hurst
J. Chem. Soc. 4840-3 (1962)
58:3027g

X-RAY EVIDENCE FOR CRYSTALLINE DEFECTS

A. Guinier
Proc. Intern. School Phys. "Enrico Fermi" (Varenna, Italy) 18, 122-51 (1960) (Pub. 1962) (In French)
65:6405a

HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTROSCOPY OF PENTAFLUOROSULFUR COMPOUNDS. II. COMPLEX NUCLEAR MAGNETIC SYSTEMS

R. K. Harris and K. J. Packer
J. Chem. Soc. 3077-82 (1962)
57:1195c

NUCLEAR MAGNETIC RESONANCE IN MnF_2 NEAR THE CRITICAL POINT

P. Heller
Phys. Rev. Letters 8, 428-32 (1962)
57:9376h

F^{19} CHEMICAL SHIFT OF NITROSYL FLUORIDE

John R. Holmes, Burch B. Steward, and James S. MacKenzie
J. Chem. Phys. 37, 2728-9 (1962)
58:8540b

- FLUORINE MAGNETIC RESONANCE IN XENON TETRAFLUORIDE
S. Maricic and Z. Veksli
Croat. Chem. Acta 34, 189-90 (1962)
58:5175c
- HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE SPECTRA OF THE PENTAFLUOROSULFUR GROUP
C. I. Merrill, S. M. Williamson, G. H. Cady, and D. F. Eggers, Jr.
Inorg. Chem. 1, 215-19 (1962)
57:2999c
- N.M.R. (NUCLEAR MAGNETIC RESONANCE) STUDY OF THE DYNAMIC STRUCTURE OF THE ALKALI HEXAFLUOROPHOSPHATES
Gerald Ray Miller
Univ. Microfilms (Ann Arbor, Mich.), Order No. 62-2940, 79 pp.; Dissertation Abstr. 23, 462 (1962)
58:6355d
- ANALYSIS OF THE N.M.R. (NUCLEAR MAGNETIC RESONANCE) AND DOUBLE-RESONANCE SPECTRA OF THE ISOMERS OF N_2F_2
Joseph H. Noggle, John D. Baldeschwieler, and Charles B. Colburn
J. Chem. Phys. 37, 182-9 (1962)
57:14609e
- STABLE CARBONIUM IONS. II. OXOCARBONIUM (ACYLIUM) TETRAFLUOROBORATES, HEXAFLUOROPHOSPHATES, HEXAFLUOROANTIMONATES, AND HEXAFLUOROARSENATES. STRUCTURE AND CHEMICAL REACTIVITY OF ACYL FLUORIDE: LEWIS ACID FLUORIDE COMPLEXES
George A. Olah, Stephen J. Kuhn, William S. Tolgysei, and Edward B. Baker
J. Am. Chem. Soc. 84, 2733-40 (1962)
57:9447h
- F¹⁹ FREE INDUCTION DECAY IN POLYCRYSTALLINE MgF_2
S. K. Sinha, S. K. Ghosh, J. Lahiri, and A. Roychoudhury
Indian J. Phys. 36, 513-20 (1962)
59:150g
- RELAXATION OF F¹⁹ IN PARAMAGNETIC SOLUTIONS
V. M. Vdovenko, L. L. Pavlova, and V. A. Shcherbakov
Zh. Strukt. Khim. 3, 707-9 (1962)
58:7528e
- F¹⁹ MAGNETIC SHIELDING IN ALKALI FLUORIDE CRYSTALS
I-Ch'iu Wang and M. Volodicheva
Fiz. Tverd. Tela 4, 642-5 (1962)
57:4169i
- 1963
- NUCLEAR MAGNETIC RESONANCE SPECTRA OF IF_7 AND IOF_5
L. G. Alexakos, C. D. Cornwell, and S. B. Pierce
Proc. Chem. Soc. 341-2 (Nov. 1963)
60:4977b
- NUCLEAR MAGNETIC RESONANCE STUDIES ON SEVERAL HALOGEN FLUORIDES
Louis George Alexakos
Univ. Microfilms (Ann Arbor, Mich.), Order No. 63-5731, 13 pp.; Dissertation Abstr. 24, 89-90 (1963)
59:14779d
- THE NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRUM OF SULFUR TETRAFLUORIDE
J. Bacon, R. J. Gillespie, and J. W. Quail
Can. J. Chem. 41, 1016-18 (1963)
59:5961d
- QUADRUPOLE RELAXATION FOR A SPIN $I = 3/2$. THE ¹⁹F N.M.R. (NUCLEAR MAGNETIC RESONANCE) SPECTRA OF BF_3 AND ClO_3F
J. Bacon, R. J. Gillespie, and J. W. Quail
Can. J. Chem. 41 (12), 3063-9 (1963)
60:1251f
- MAGNETIC RESONANCE AT VERY LOW FREQUENCIES: APPLICATIONS TO PHYSICAL CHEMISTRY AND STRUCTURAL CHEMISTRY
G. J. Bene
Chim. Anal. (Paris) 45, 162-71 (1963)
59:2307e
- NUCLEAR MAGNETIC RESONANCE (N.M.R.) STUDIES OF THE PROTONATION OF WEAK BASES IN FLUOROSULFURIC ACID. II. AMIDES, THIOAMIDES, AND SULFONAMIDES
T. Birchall and R. J. Gillespie
Can. J. Chem. 41 (10), 2642-50 (1963)
59:12327d
- ANISOTROPY OF FLUORINE CHEMICAL SHIFT IN SOLID XENON TETRAFLUORIDE
R. Blinc, P. Podnar, J. Slivnik, B. Volavsek, S. Maricic, and Z. Veksli
Noble-Gas Compds. 270-4 (1963)
65:13043h
- ANISOTROPY OF THE F CHEMICAL SHIFT TENSOR IN XeF_4
R. Blinc, I. Zupancic, S. Maricic, and Z. Veksli
J. Chem. Phys. 39 (8), 2109-10 (1963)
59:14715d
- F¹⁹ MAGNETIC RESONANCE STUDY IN XENON TETRAFLUORIDE
R. Blinc, P. Podnar, J. Slivnik, and B. Volavsek
Phys. Letters 4, 124 (1963)
58:12099a
- NUCLEAR MAGNETIC RESONANCE IN POLYCRYSTALLINE UF_6
R. Blinc, V. Marinkovic, E. Pirkmajer, I. Zupancic, and S. Maricic
J. Chem. Phys. 38, 2474-7 (1963)
58:13327a
- ACTION OF HEAVY WATER ON THE CHEMICAL SHIFT FOR F¹⁹
P. M. Borodin, E. K. Legin, E. N. Sventitskii, M. B. Khusidman, and V. A. Shcherbakov
Zh. Strukt. Khim. 4 (2), 266-7 (1963)
59:3447d
- HIGH-RESOLUTION F¹⁹ AND Xe^{129} MAGNETIC DOUBLE RESONANCE SPECTRUM OF $XeOF_4$
Thomas H. Brown, E. B. Whipple, and Peter H. Verdier
J. Chem. Phys. 38, 3029-30 (1963)
59:8321f
- HIGH-RESOLUTION MAGNETIC RESONANCE OF Xe COMPOUNDS
Thomas H. Brown, E. B. Whipple, and Peter H. Verdier
Noble-Gas Compds. 263-69 (1963)
65:6544d

XENON TETRAFLUORIDE: FLUORINE-19 HIGH-RESOLUTION
MAGNETIC RESONANCE SPECTRUM

Thomas H. Brown, E. B. Whipple, and Peter H. Verdier
Science 140 (3563), 178 (1963)
59:2306c

FORMATION AND EXCHANGE RATES OF SOME COMPLEXES OF
BORON FLUORIDE WITH AMINES AND ETHERS

S. Brownstein, A. M. Eastham, and G. A. Latremouille
J. Phys. Chem. 67, 1028-31 (1963)
58:13179c

THE NUCLEAR MAGNETIC RESONANCE AND THE ELECTRON PAR-
AMAGNETIC RESONANCE OF LiF DOPED WITH MnF₂

Te-Tse Chang
Univ. Microfilms (Ann Arbor, Mich.), Order No. 63-
1983, 69 pp.; Dissertation Abstr. 23, 2958 (1963)
58:13322h

HYDROGEN AND FLUORINE NUCLEAR MAGNETIC RESONANCE IN
SOME ADDUCTS OF BORON TRIFLUORIDE

R. A. Craig and R. E. Richards
Trans. Faraday Soc. 59 (489), Pt. 9, 1962-71 (1963)
59:14770h

STUDY OF THE TEMPERATURE DEPENDENCE OF RELAXATION
OF THE ¹⁹F NUCLEUS IN A SYNTHETIC CaF₂ SINGLE
CRYSTAL

R. A. Dautov, V. D. Korepanov, and A. I. Chernitsyn
Itog. Nauchn. Konf. Kazansk. Univ. za 1962g.
(Kazan: Kazansk. Univ.) Sb., 14-15 (Pub. 1963)
(In Russian)
63:10781d

NEW FLUORINE COMPOUNDS OF XENON

A. J. Edwards, J. H. Holloway, and R. D. Peacock
Proc. Chem. Soc. 275-6 (Sept. 1963)
60:7667g

FURTHER NUCLEAR MAGNETIC RESONANCE (N.M.R.) AND
ELECTRON PARAMAGNETIC RESONANCE (E.P.R.) STUDIES ON
THE SYSTEM N₂F₄ = 2NF₂

Raymond Ettinger and Charles B. Colburn
Inorg. Chem. 2 (6), 1311-13 (1963)
60:6367f

IODINE OXIDE PENTAFLUORIDE

R. J. Gillespie and J. W. Quail
Proc. Chem. Soc. 278 (Sept. 1963)
60:7667e

SULFUR AND SILICON ISOTOPE EFFECTS IN FLUORINE
NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTROSCOPY

R. J. Gillespie and J. W. Quail
J. Chem. Phys. 39 (10), 2555-7 (1963)
59:13509f

PROPERTIES AND LATTICE IMPERFECTIONS OF ICE CRYSTALS
AND THE BEHAVIOR OF H₂O-HF SOLID SOLUTIONS

H. Graenicher
Physik Kondensierten Materie 1 (1), 1-12 (1963)
59:8141g

NUCLEAR MAGNETIC RESONANCE (N.M.R.) INVESTIGATIONS
INTO HYDROGEN BONDS AND IONIC REORIENTATIONS IN THE
CRYSTALS. II. AMMONIUM FLUORALUMINATES

Marcella Guido and Cafiero Franconi
Ann. Chim. (Rome) 53, 1048-53 (1963)
60:8801b

NUCLEAR MAGNETIC RELAXATION AND DIFFUSION IN LIQUID
SF₆

William R. Hackleman and Paul S. Hubbard
J. Chem. Phys. 39 (10), 2688-93 (1963)
59:13508f

FLUORINE NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPEC-
TROSCOPY. STUDIES OF C¹³ SATELLITE SPECTRA

Robin K. Harris
J. Mol. Spectry. 10, 309-19 (1963)
59:3445h

A MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTROMETER
AND THE RADIO-FREQUENCY SPECTRA OF LITHIUM FLUORIDE

Alvin Joseph Hebert
Univ. Microfilms (Ann Arbor, Mich.), Order No.
63-5512, 87 pp.; Dissertation Abstr. 24, 1848-9
(1963)
60:11509g

MAGNETIC RESONANCE DETERMINATION OF THE SUSCEPTI-
BILITY IN ANTIFERROMAGNETIC MnF₂

P. Heller and G. B. Benedek
Proc. Intern. Conf., 1st, Jerusalem, 1962 2, 597-601
(Pub. 1963)
60:4939b

NUCLEAR MAGNETIC RESONANCE STUDIES OF Xe FLUORIDES

J. C. Hindman and A. Svirnickas
Noble-Gas Compds. 251-62 (1963)
65:6546b

PENTACOORDINATED MOLECULES. I. THE PREPARATION
AND FLUORINE-19 NUCLEAR MAGNETIC RESONANCE (n.m.r.)
INVESTIGATION OF THE PHOSPHORUS CHLOROFLUORIDES

Robert R. Holmes and W. Patrick Gallagher
Inorg. Chem. 2, 433-7 (1963)
59:210d

SPECULATION CONCERNING THE NATURE OF BINDING IN
XENON FLUORINE COMPOUNDS

Joshua Jortner, Stuart A. Rice, and E. Guy Wilson
J. Chem. Phys. 38, 2302-3 (1963)
59:5784a

SPIN ECHO IN A LOCALIZED FIELD

V. D. Korepanov, A. I. Chernitsyn, and R. A.
Dautov
Zh. Eksperim. i Teor. Fiz. 45 (2), 385-6 (1963)
60:6368f

NUCLEAR MAGNETIC RESONANCE STUDIES OF NEUTRON-IR-
RADIATED FLUORIDES, ESPECIALLY LITHIUM FLUORIDE

Charles Dwaine Knutson
Univ. Microfilms (Ann Arbor, Mich.), Order No.
63-1038, 178 pp.; Dissertation Abstr. 23, 2570
(1963)
58:9774d

CHEMICAL SHIFTS IN XENON FLUORIDES

D. Lazdins, C. W. Kern, and M. Karplus
J. Chem. Phys. 39 (6), 1611-12 (1963)
60:1248i

MAGNETIC MEASUREMENTS ON XeF₄

S. Maricic, Z. Vekslil, J. Slivnik, and B. Volavsek
Croat. Chem. Acta 35, 77-80 (1963)
59:4706f

- NUCLEAR MAGNETIC RESONANCE STUDIES IN THE SERIES $ZrF_4 \cdot xHF \cdot H_2O$. I. THE CONSTITUTION OF THE HYDRATES OF ZIRCONIUM TETRAFLUORIDE
S. Maricic, P. Strohal, and Z. Vekslj
J. Inorg. Nucl. Chem. 25 (7), 789-94 (1963)
59:2365e
- N.M.R. (NUCLEAR MAGNETIC RESONANCE) STUDY OF THE ALKALI HEXAFLUOROPHOSPHATES' DYNAMIC STRUCTURE
Gerald R. Miller and H. S. Gutowsky
J. Chem. Phys. 39 (8), 1983-94 (1963)
59:13508b
- CARBON-13 SPLITTINGS IN FLUORINE NUCLEAR MAGNETIC RESONANCE SPECTRA
Norbert Muller and Duane T. Carr
J. Phys. Chem. 67, 112-15 (1963)
58:3025f
- MEDIUM EFFECTS IN N.M.R. (NUCLEAR MAGNETIC RESONANCE). III. FLUORINE RESONANCE IN GASES
L. Petrakis and H. J. Bernstein
J. Chem. Phys. 38, 1562-8 (1963)
58:10893a
- NUCLEAR MAGNETIC RESONANCE AND INFRARED STUDIES OF SOME FLUOROCARBON-TRANSITION METAL COMPOUNDS. I. II.
Emily Pitcher
Univ. Microfilms (Ann Arbor, Mich.), Order No. 62-5432, 158 pp.; Dissertation Abstr. 23, 2317-18 (1963)
58:10890b
- FLUORINE-19 NUCLEAR MAGNETIC RESONANCE STUDY OF SOME PENTAFLUOROTITANATE COMPLEXES
Ronald O. Ragsdale and Burch B. Steward
Inorg. Chem. 2 (5), 1002-4 (1963)
59:9483d
- NUCLEAR MAGNETIC RESONANCE AND ITS APPLICATIONS TO INORGANIC CHEMISTRY
Claude Rocchiccioli
Chim. Anal. (Paris) 45, 251-8 (1963)
59:2307f
- XENON FLUORIDES: FLUORINE-19 NUCLEAR MAGNETIC RESONANCE SPECTRA
A. C. Rutenberg
Science 140 (3570), 993-4 (1963)
59:5961e
- COVALENCY EFFECTS IN KnF_3 . I. NUCLEAR MAGNETIC RESONANCE STUDIES
R. G. Shulman and S. Sugano
Phys. Rev. 130, 506-11 (1963)
58:13153b
- DICHLOROFLUORAMINE
Bernard Sukornick, Richard F. Stahl, and Joseph Gordon
Inorg. Chem. 2 (4), 875 (1963)
59:12391e
- NUCLEAR MAGNETIC RESONANCE OF F^{20} BY POLARIZED NEUTRON CAPTURE AND β -DECAY ANISOTROPY
Tung Tsang and Donald Connor
Phys. Rev. 132 (3), 1141-6 (1963)
59:13507g
- DIFFUSION NARROWING OF NUCLEAR MAGNETIC RESONANCE (N.M.R.) LINE WIDTH OF F^{19} IN $CaF_2:Sm^{2+}$
Wm. J. Veigle and A. W. Bevan, Jr.
Phys. Rev. 131 (4), 1585-6 (1963)
59:7096d
- 1964
- RELAXATION OF THE ^{19}F NUCLEI IN CaF_2
A. G. Akhmedov
Sb. Aspirantskikh Rabot, Kazansk. Gos. Univ. 155-9 (1964) (In Russian)
63:10880g
- NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF ClF_2 AND ClF : GASEOUS SPECTRA AND GAS-TO-LIQUID SHIFTS
Louis G. Alexakos and C. D. Cornwell
J. Chem. Phys. 41 (7), 2098-107 (1964)
61:12817a
- NUCLEAR MAGNETIC ANTISHIELDING OF NUCLEI IN MOLECULES. MAGNETIC MOMENTS OF ^{19}F , ^{14}N , AND ^{15}N
Milton R. Baker, Charles H. Anderson, and Norman F. Ramsey
Phys. Rev. 133 (6A), 1533-6 (1964)
60:8802c
- ^{19}F NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF HEPTAVALENT FLUORIDES AND OXIDE PENTAFLUORIDES
N. Bartlett, S. Beaton, L. W. Reeves, and E. J. Wells
Can. J. Chem. 42 (11), 2531-40 (1964)
61:14061h
- NUCLEAR MAGNETIC RESONANCE OF FLUORINE
C. Beguin
Bull. Soc. Chim. France (10), 2711 (1964) (In French)
62:6033b
- SELENIUM ISOTOPE EFFECTS IN FLUORINE NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
T. Birchall, S. L. Crossley, and R. J. Gillespie
J. Chem. Phys. 41 (9), 2760-1 (1964)
61:14062g
- ANOMALIES IN THE NUCLEAR MAGNETIC RESONANCE (N.M.R.) AND ELECTRON PARAMAGNETIC RESONANCE (E.P.R.) SPECTRA OF XeF_6/HF MIXTURES
Thomas H. Brown, Paul H. Kasai, Peter H. Verdier, and E. B. Whipple
J. Chem. Phys. 40 (11), 3448-9 (1964)
61:11501h
- $KrF_4:^{19}F$ HIGH-RESOLUTION MAGNETIC RESONANCE SPECTRUM
Thomas H. Brown and Peter H. Verdier
J. Chem. Phys. 40 (7), 2057 (1964)
60:15319a
- ADDITIVE RELATION FOR CHEMICAL SHIFTS IN NUCLEAR MAGNETIC RESONANCE (N.M.R.) OF ^{19}F IN PHOSPHOROFUORIDATES AND PHOSPHONOFUORIDATES
V. F. Bystrov, A. A. Neimysheva, A. U. Stepanyants, and I. L. Knunyants
Dokl. Akad. Nauk SSSR 156 (3), 637-40 (1964)
61:6548c

NUCLEAR MAGNETIC-DIPOLE COUPLING IN SOLID BF_3

P. A. Casabella
J. Chem. Phys. 41 (12), 3793-8 (1964)
62:2383f

ISOLATION AND STORAGE OF FREE RADICALS ON MOLECULAR SIEVES. II. THE ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF NITROGEN DIFLUORIDE (NF_2)

Charles B. Colburn, Raymond Etinger, and Frederick A. Johnson
Inorg. Chem. 3 (3), 455-7 (1964)
60:14036d

PREPARATION AND PROPERTIES OF DIFLUOROBORANE

T. D. Coyle, J. J. Ritter, and T. C. Farrar
Proc. Chem. Soc. 25 (Jan. 1964)
60:8880a

FLUORINE NUCLEAR MAGNETIC RESONANCE SPECTRA OF HYDROXYFLUOROSTANNATES

P. A. W. Dean and D. F. Evans
Proc. Chem. Soc. 407 (Dec. 1964)
62:8542g

ULTRASONICALLY-INDUCED NUCLEAR SPIN TRANSITIONS IN ANTIFERROMAGNETIC KMnF_3

A. B. Denison, L. W. James, J. D. Currin, W. H. Tanttilla, and R. J. Mahler
Phys. Rev. Letters 12 (10), 244-5 (1964)
60:11540h

STUDY OF MOVEMENT OF IONS IN FLUOROSILICATES BY NUCLEAR MAGNETIC RESONANCE

Jean Marie Dereppe, Pedro W. Lobo, and Maurice van Meerssche
J. Chim. Phys. 61 (7-8), 1076-81 (1964) (In French)
62:3550c

^{19}F NUCLEAR MAGNETIC RESONANCE IN SOME PARAMAGNETIC FLUORIDES

D. Elwell
Proc. Phys. Soc. (London) 84 (539), 409-15 (1964)
61:9073e

PROTON AND FLUORINE NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRA OF HBF_2

T. C. Farrar and T. D. Coyle
J. Chem. Phys. 41 (9), 2612-13 (1964)
61:16063f

CYANOGEN FLUORIDE: SYNTHESIS AND PROPERTIES

F. S. Fawcett and R. D. Lipscomb
J. Am. Chem. Soc. 86 (13), 2576-9 (1964)
61:3903a

NUCLEAR MAGNETIC RESONANCE (N.M.R.) SPECTRUM OF THE FLUOROBERYLLATE ION

P. E. Francis and I. J. Lawrenson
J. Inorg. Nucl. Chem. 26 (8), 1462-3 (1964)
61:12813h

REACTION OF OXYGEN DIFLUORIDE WITH SULFUR DIOXIDE, SULFUR TRIOXIDE, AND PEROXYDISULFURYL DIFLUORIDE

Gerhard Franz and Franz Neumayr
Inorg. Chem. 3 (6), 921-2 (1964)
61:3843e

NUCLEAR MAGNETIC RESONANCE OF ^{19}F IN TETRAFLUORIDES OF URANIUM AND THORIUM

S. P. Gabuda, Yu. V. Gagarinskii, A. G. Lundin, and G. M. Mikhailov
Zh. Strukt. Khim. 5 (5), 789-91 (1964) (In Russian)
62:2380d

NUCLEAR MAGNETIC RESONANCE OF ^{19}F IN TETRAFLUORIDES OF URANIUM AND THORIUM

S. P. Gabuda, Yu. V. Gagarinskii, A. G. Lundin, and G. M. Mikhailov
Zh. Strukt. Khim. 5 (5), 789-91 (1964) (In Russian)
CORRECTION OF CA 62:2380d
64:12066e

PROTON MAGNETIC RESONANCE IN HYDRATED CRYSTALS OF URANIUM TETRAFLUORIDE

Yu. V. Gagarinskii, S. P. Gabuda, and G. M. Mikhailov
Zh. Strukt. Khim. 5 (3), 383-6 (1964) (In Russian)
62:3551f

ELECTRON PARAMAGNETIC RESONANCE [E.P.R.] AND NUCLEAR SPIN ECHO IN SOLUTIONS OF OXYFLUORIDES OF PENTAVALENT MOLYBDENUM

N. S. Garif'yanov, V. N. Fedotov, and N. S. Kucheryavenko
Izv. Akad. Nauk. SSSR, Ser. Khim (4), 743-5 (1964)
61:3837e

ANTIMONY TETRAFLUORIDE MONOFLUOROSULFATE: PREPARATION, PROPERTIES, AND STRUCTURE

R. J. Gillespie and R. A. Rothenbury
Can. J. Chem. 42 (2), 416-20 (1964)
60:6461d

THE ^{19}F N.M.R. SPECTRUM OF IF_7

R. J. Gillespie and J. W. Quail
Can. J. Chem. 42 (12), 2671-3 (1964)
62:3554a

INFRARED AND RAMAN SPECTRA OF CYANURIC FLUORIDE

James E. Griffiths and Donald E. Irish
Can. J. Chem. 42 (3), 690-5 (1964)
60:8785c

^{55}Mn NUCLEAR MAGNETIC RESONANCE IN ANTIFERROMAGNETIC RbMnF_3

A. J. Heeger and D. T. Teaney
J. Appl. Phys. 35 (3), Pt. 2, 846-7 (1964)
60:8803b

HYPERFINE INTERACTIONS IN KCoF_3

Kazuyoshi Hirakawa
J. Phys. Soc. Japan 19 (9), 1678-85 (1964)
61:12816f

PENTACOORDINATED MOLECULES. IV. MOLECULAR STRUCTURES OF PCl_4F , PCl_3F_2 , AND PCl_2F_3 ; PURE CHLORINE NUCLEAR QUADRUPOLE RESONANCE AND LOW-TEMPERATURE ^{19}F NUCLEAR MAGNETIC RESONANCE SPECTRA

Robert R. Holmes, Richard P. Carter, Jr., and George E. Peterson
Inorg. Chem. 3 (12), 1748-54 (1964)
62:2386b

CALCULATION OF CHEMICAL SHIFTS. II. THE XENON FLUORIDES

Cynthia Juan Jameson and H. S. Gutowsky
J. Chem. Phys. 40 (8), 2285-93 (1964)
60:12796c

- THEORETICAL CALCULATIONS OF CHEMICAL SHIFTS IN NUCLEAR MAGNETIC RESONANCE: APPLICATION TO THE XENON FLUORIDES
Cynthia J. Jameson
Univ. Microfilms (Ann Arbor, Mich.), Order No. 64-6088, 74 pp.; Dissertation Abstr. 25 (1), 129 (1964)
61:15551g
- ZERO-FIELD MANGANESE NUCLEAR MAGNETIC RESONANCE (N.M.R.) IN ANTIFERROMAGNETIC MANGANESE FLUORIDE
E. D. Jones and K. B. Jefferts
Phys. Rev. 135 (5A), 1277-80 (1964)
61:9072b
- INFLUENCE OF DISLOCATIONS ON THE INTENSITY OF NUCLEAR MAGNETIC RESONANCE SIGNALS
O. Kanert
Phys. Status Solidi 7 (3), 791-803 (1964) (In German)
62:11315a
- SHIELDING ANISOTROPIES IN XENON FLUORIDES
M. Karplus, C. W. Kern, and D. Lazdins
J. Chem. Phys. 40 (12), 3758-9 (1964)
61:6553e
- EXPERIMENTAL STUDY OF THE RATE OF NUCLEAR SPIN RELAXATION IN ELECTROLYTE SOLUTIONS
N. S. Kucheryavenko
Zh. Strukt. Khim. 5 (1), 17-22 (1964)
61:3834h
- SPIN-SPIN COUPLING IN THE TETRAFLUOROBORATE ION
Kark Kuhlmann and David M. Grant
J. Phys. Chem. 68 (11), 3208-13 (1964)
62:149c
- NUCLEAR MAGNETIC RESONANCE IN NICKEL FLUOSILICATE BETWEEN 0.15°K AND 4.2°K
Kiyoshi Kume and Tadashi Sugawara
J. Phys. Soc. Japan 19 (5), 688-94 (1964)
61:1410e
- NUCLEAR MAGNETIC RESONANCE (N.M.R.) LINE SHAPE OF FLUORINE IN APATITE
W. van der Lugt and W. J. Caspers
Physica 30 (8), 1658-66 (1964)
61:10208e
- SYNTHESIS AND CHARACTERIZATION OF FLUORIMIDODISULFURYL FLUORIDE, (FSO₂)₂NF, AND DIFLUORAMIDOSULFURYL FLUORIDE, FSO₂NF₂
Max Lustig, Carl L. Bumgardner, Frederic A. Johnson, and John K. Ruff
Inorg. Chem. 3 (8), 1165-8 (1964)
61:6617h
- THE RELATIVE ACCEPTOR POWER OF BORON TRIHALIDES AND BORANE TOWARD TRIMETHYLAMINE DETERMINED BY PROTON N.M.R. (NUCLEAR MAGNETIC RESONANCE) MEASUREMENTS
J. M. Miller and M. Onyszchuk
Can. J. Chem. 42 (7), 1518-23 (1964)
61:5111a
- DIFLUORODIAZIRINE. I. PHYSICAL AND SPECTRAL PROPERTIES
Ronald A. Mitsch
J. Heterocyclic Chem. 1 (1), 59-60 (1964)
60:14488d
- EXCHANGE OF PARTS BETWEEN MOLECULES AT EQUILIBRIUM. I. α, ω -DISUBSTITUTED POLYDIMETHYLSILOXANES
Kurt Moedritzer and John R. Van Wazer
J. Am. Chem. Soc. 86 (5), 802-7 (1964)
60:8881f
- INTRAMOLECULAR LIGAND EXCHANGE IN SEVEN COORDINATE STRUCTURES
E. L. Muetterties and K. J. Packer
J. Am. Chem. Soc. 86 (2), 293-4 (1964)
60:7661c
- DIRECT ⁵⁵Mn N.M.R. (NUCLEAR MAGNETIC RESONANCE) ABSORPTION IN ANTIFERROMAGNETIC KMnF₃
A. Nakamura, V. Minkiewicz, and A. M. Portis
J. Appl. Phys. 35 (3), Pt. 2, 842-3 (1964)
60:8803a
- NUCLEAR MAGNETIC RESONANCE FLUORINE-FLUORINE COUPLING CONSTANTS
Soon Ng and C. H. Sederholm
J. Chem. Phys. 40 (8), 2090-4 (1964)
60:12796f
- PHOSPHORUS-31 NUCLEAR MAGNETIC RESONANCE STUDIES OF PHOSPHORUS-FLUORINE COMPOUNDS
John F. Nixon and Reinhard Schmutzler
Spectrochim. Acta 20 (12), 1835-42 (1964)
62:1229d
- NUCLEAR INTERACTIONS AND ROTATIONAL MOMENT OF F₂
Irving Ozier, Lawrence M. Crapo, James W. Cederberg, and Norman F. Ramsey
Phys. Rev. Letters 13 (15), 482-4 (1964)
62:119d
- THE HEXAFLUOROARSENATE ION, A PROBE FOR ION ASSOCIATION
K. J. Packer and E. L. Muetterties
Proc. Chem. Soc. 147 (May 1964)
61:3832g
- MAGNETIC SHIELDING TRANSITION IN SOLID CeF₄
M. Pintar
Phys. Letters 10 (3), 265-6 (1964)
61:7850f
- ANTIFERROMAGNETIC RESONANCE IN CoF₂, NiF₂, AND MnCO₃
P. L. Richards
J. Appl. Phys. 35 (3), Pt. 2, 850-1 (1964)
60:8768d
- NUCLEAR MAGNETIC RESONANCE STUDIES OF BF₃ ADDITION COMPOUNDS. II. EXCHANGE OF BF₃ BETWEEN PhOMe.BF₃ AND Et₂O.BF₃
A. C. Rutenberg, A. A. Palko, and J. S. Drury
J. Phys. Chem. 68 (4), 976-8 (1964)
61:1407h

PHOSPHORUS FLUORINE CHEMISTRY. VIII. THE GROUP SHIFT THEORY, AS APPLIED TO THE ^{31}P NUCLEAR MAGNETIC RESONANCE SPECTRA OF CERTAIN PHOSPHORUS FLUORIDES
R. Schmutzler
J. Chem. Soc. 4551-7 (Nov. 1964)
62:1228b

^{19}F NUCLEAR MAGNETIC RESONANCE SPECTRA OF THE DISULFURDIFLUORIDE ISOMERS
Fritz Seel, Rudolf Budenz, and Dietmar Werner
Ber. 97 (5), 1369-72 (1964)
61:3834a

TRIMERIC SULFANURIC FLUORIDE
F. Seel and G. Simon
Z. Naturforsch. 19b (4), 354-5 (1964)
61:3902f

INVESTIGATION OF THE CHEMICAL DISPLACEMENTS OF NUCLEAR MAGNETIC RESONANCE SIGNALS OF FLUORIDE IONS IN CRYSTALS AND SOLUTIONS
F. I. Skripov and I-Chu Wang
Wu Li Hsueh Pao 20, 41-54 (1964) (In Chinese)
65:11573c

NUCLEAR MAGNETIC RESONANCE (N.M.R.) AND MOLECULAR FIELD APPROXIMATION IN KCoF_3
Tung Tsang
J. Chem. Phys. 40 (3), 729-33 (1964)
60:7593b

MOTIONAL NARROWING OF NUCLEAR MAGNETIC RESONANCE (N.M.R.) LINES IN MANGANESE-DOPED LITHIUM FLUORIDE
T. G. Stoebe, T. O. Ogurtani, and R. A. Huggins
Phys. Rev. 134 (4A), 963-4 (1964)
60:15321d

NUCLEAR MAGNETIC RESONANCE (N.M.R.) CHEMICAL SHIFT OF F ION IN CRYSTAL AND SOLUTION
I-Chiu Wang
Wu Li Hsueh Pao 20 (1), 41-54 (1964)
61:3834e

STUDIES ON THE PREPARATION AND FLUORINE AND ITS COMPOUNDS. VIII. THE FORMATION REACTION OF GRAPHITE FLUORIDE
Nobuatsu Watanabe, Yoshiyuki Koyama, and Shiro Yoshizawa
J. Electrochem. Soc. Japan 32 (1), 17-25 (1964)
65:14820g

1965

ANTIMONY PENTAHALIDES. THE MIXED CHLOROFLUORIDES
N. E. Aubrey and J. R. Van Wazer
J. Inorg. Nucl. Chem. 27 (8), 1761-8 (1965)
63:7866f

PURE AND HF-DOPED ICE BY PULSED NUCLEAR MAGNETIC RESONANCE
Dennis Earl Barnaal
Univ. Microfilms (Ann Arbor, Mich.), Order No. 65-7867, 175 pp.; Dissertation Abstr. 26 (2), 1116 (1965)
63:15747b

NUCLEAR MAGNETIC RESONANCE STUDY OF TRIFLUORIDES OF Ce GROUP RARE EARTH ELEMENTS
E. A. Baturina, Yu. A. Luk'yanychev, and O. T. Malyuchkov
Fiz. Tverd. Tela 7 (6), 1892-4 (1964) (In Russian)
63:12532a

ISOTOPIC EXCHANGE REACTIONS OF DIFLUORAMINE WITH DEUTERIUM OXIDE AND TRIFLUOROACETIC ACID
Warren E. Becker and Fred J. Impastato
Advan. Chem. Ser. 24, 132-40 (1965)
65:4712f

CHEMICAL SHIFTS OF THE NUCLEAR MAGNETIC RESONANCE ^{19}F SIGNALS OF HYDROFLUORIC ACID AQUEOUS SOLUTIONS OF VARIOUS CONCENTRATIONS
P. M. Borodin and E. N. Sventitskii
Yadern. Magnitn. Rezonans, Leningr. Gos. Univ. No. 1, 76-82 (1965) (In Russian)
65:6544b

NUCLEAR MAGNETIC RESONANCE INVESTIGATION OF THE ELECTROLYTE STRUCTURE IN THE PHASE OF ION-EXCHANGE RESINS
P. M. Borodin, M. K. Nikitin, and E. N. Sventitskii
Zh. Strukt. Khim. 6 (2), 188-91 (1965)
63:3658b

NUCLEAR MAGNETIC RESONANCE STUDY OF THE ELECTROLYTE STRUCTURE IN THE PHASE OF ION-EXCHANGE RESINS
P. M. Borodin, M. K. Nikitin, and E. N. Sventitskii
Yadern. Magnitn. Rezonans, Leningr. Gos. Univ. No. 1, 83-9 (1965) (In Russian)
65:4694h

COMPLEXES OF BORON TRIFLUORIDE WITH FLUOBORATES
S. K. Brownstein and J. Paasivirta
Can. J. Chem. 43 (6), 1645-9 (1965)
63:2606g

SPECTROSCOPIC INVESTIGATIONS ON THE STRUCTURE OF $\text{SiF}_4 \cdot 2$ (AMINES) ADDUCTS
H. Buerger, W. Sawodny, and F. Hoefler
Monatsh. Chem. 96 (5), 1437-45 (1965) (In German)
64:9084h

NUCLEAR MAGNETIC RESONANCE OF ^{19}F IN THE SOLUTIONS OF FLUORIDES OF THE ELEMENTS OF GROUP IV
Yu. A. Buslaev, V. A. Shcherbakov, and M. E. Dyatkina
Zh. Strukt. Khim. 6 (1), 16-20 (1965) (In Russian)
63:164f

PENTACOORDINATED MOLECULES. V. THE PREPARATION AND PROPERTIES OF PClF_4
Richard P. Carter, Jr., and Robert R. Holmes
Inorg. Chem. 4 (5), 738-9 (1965)
62:14164e

IONIC COMPLEXES CONTAINING THE DIFLUOROCHLORINIUM CATION
K. O. Christie and A. E. Pavlath
Z. Anorg. Allgem. Chem. 332 (3-4), 210-16 (1965)
62:12731c

TUNGSTEN CHLORIDE PENTAFLUORIDE
B. Cohen, A. J. Edwards, M. Mercer, and R. D. Peacock
Chem. Commun. 322-3, 1965(14)
63:9418e

ONE PHOTON-TWO SPINS PROCESSES
R. Deltour and J. Jeener
Proc. Colloq. AMPERE (Atomes Mol. Etudes Radio Elec.) 13, 271-2 (1964) (Pub. 1965)
64:18736a

NUCLEAR MAGNETIC RESONANCE STUDY OF SOME PARAMAGNETIC HYDRATED FLUORIDES

K. R. K. Easwaran and R. Srinivasan
Proc. Nucl. Phys. Solid State Phys. Symp., Calcutta 1965 (Pt. A), 171-80
65:11574g

TRANSITION-METAL PEROXY COMPLEXES. IV. PEROXY-FLUORO COMPLEXES

D. F. Evans, W. P. Griffith, and L. Pratt
J. Chem. Soc. 2182-4 (Mar. 1965)
62:11323a

SPIN-ROTATION INTERACTION AND MAGNETIC SHIELDING IN OF_2

W. H. Flygare
J. Chem. Phys. 42 (4), 1157-61 (1965)
62:7257a

THE CRYSTALLINE HYDRATE $UF_4 \cdot 4/3H_2O$

Yu. V. Gagarinskiĭ, E. I. Khanaev, N. P. Galkin, L. A. Anan'eva, and S. P. Gabuda
At. Energ. (USSR) 18 (1), 40-5 (1965) (In Russian)
62:12728c

A NUCLEAR MAGNETIC RESONANCE INVESTIGATION OF ETHER-BORON HALIDE MOLECULAR ADDITION COMPOUNDS IN DI-CHLOROMETHANE

Ernest Gore and Steven S. Danyluk
J. Phys. Chem. 69 (1), 89-95 (1965)
62:4801g

NUCLEAR MAGNETIC RESONANCE INVESTIGATIONS OF SOME GROUP V METAL FLUORIDES AND OXYIONS

J. V. Hatton, Y. Saito, and W. G. Schneider
Can. J. Chem. 43 (1), 47-56 (1965)
62:6035e

MEASUREMENT BY N.M.R. OF THE DIFFUSION RATE OF HF IN ICE

Marcel Kopp, Dennis E. Barnaal, and Irving J. Lowe
J. Chem. Phys. 43 (9), 2965-71 (1965)
63:17346a

^{19}F NUCLEAR MAGNETIC RESONANCE LINE NARROWING IN LaF_3 AT $300^\circ K$

Kenneth Lee and Arden Sher
Phys. Rev. Letters 14 (25), 1027-9 (1965)
63:10882d

MAGNETIC PROPERTIES OF CoF_2

M. E. Lines
Phys. Rev. 137 (3A), 982-93 (1965)
62:5991h

SPLITTING OF ^{19}F NUCLEAR MAGNETIC RESONANCE LINE IN A Co^{2+} -DOPED NaF CRYSTAL

Amory B. Lovins
J. Chem. Phys. 42 (5), 1558-9 (1965)
62:9957c

COMPOSITION AND STRUCTURE OF CRYSTAL HYDRATES OF LANTHANUM AND CERIUM TRIFLUORIDES

Yu. A. Luk'yanychev, E. A. Baturina, and O. T. Malychukov
Izv. Akad. Nauk SSSR, Neorgan. Materialy 1 (12), 2182-8 (1965) (In Russian)
64:11073g

NUCLEAR MAGNETIC RESONANCE STUDIES OF PURE AND SAMARIUM-DOPED CaF_2 CRYSTALS

R. J. Lysiak and P. P. Mahendroo
J. Chem. Phys. 44 (10), 4025-9 (1965)
65:1626e

PHONON-INDUCED NUCLEAR DIPOLE TRANSITIONS

R. J. Mahler
Proc. Colloq. Ampere (Atomes Mol. Etudes Radio Elec) 13, 202-9 (1964) (Pub. 1965)
64:16799b

STEREOCHEMICAL NONRIGIDITY IN PF_3Cl_2 AND PF_3Br_2

W. Mahler and E. L. Muetterties
Inorg. Chem. 4 (10), 1520 (1965)
64:4475h

NUCLEAR RESONANCE IN SOLID NITROGEN TRIFLUORIDE

G. A. Matzkanin, T. A. Scott, and P. J. Haigh
J. Chem. Phys. 42 (5), 1646-51 (1965)
62:11318c

THE PREPARATION OF FLUORODIAZONIUM HEXAFLUORO-ARSENATE ($N_2F^+-AsF_6^-$) FROM *cis*-DIFLUORODIAZINE

David Moy and Archie R. Young, II
J. Am. Chem. Soc. 87 (9), 1889-92 (1965)
62:15741d

THE RADICAL DECOMPOSITION OF PEROXYSULFURYL DI-FLUORIDE (FSO_2-OOF) AND RELATED COMPOUNDS BY CHEMICAL AND ELECTRON PARAMAGNETIC RESONANCE METHODS

Franz Neumayr and N. Vanderkooi, Jr.
Inorg. Chem. 4 (8), 1234-7 (1965)
63:10991e

NUCLEAR MAGNETIC RESONANCE STUDIES. I. ^{19}F SPIN-SPIN COUPLING CONSTANTS. II. THE EFFECT OF SOLVENTS ON ^{19}F SPIN-SPIN COUPLING CONSTANTS

Soon Ng
Univ. Microfilms (Ann Arbor, Mich.), Order No. 64-13,064, 71 pp., Dissertation Abstr. 25 (7), 3863 (1965)
62:15609d

N.M.R. MEASUREMENT OF EQUILIBRIUM CONSTANTS BETWEEN BORON FLUORIDE ETHYL ETHER COMPLEX AND CYCLIC ETHERS

Masahiko Okada, Katsuhiko Suyama, and Yuya Yamashita
Tetrahedron Letters 2329-32, 1965 (28)
64:558h

EXCHANGE REACTIONS IN THE SYSTEM BORON TRIFLUORIDE-METHANOL

J. Paasivirta and S. Brownstein
J. Am. Chem. Soc. 87 (16), 3593-7 (1965)
63:9430d

NUCLEAR MAGNETIC RESONANCE IN $RbMnF_3$

Richard E. Payne, Richard A. Forman, and Arnold H. Kahn
J. Chem. Phys. 42 (11), 3806-8 (1965)
63:167h

LOW- AND HIGH-TEMPERATURE MAGNETIC RESONANCE AND RELAXATION OF $NaF:Mn^{2+}$

G. A. Persyn and A. W. Nolle
Phys. Rev. 140 (5A), 1610-19 (1965)
64:194g

^{19}F NUCLEAR MAGNETIC RESONANCE IN NaNiF_3 AND NaCoF_3
M. P. Petrov
Fiz. Tverd. Tela 7 (6), 1663-6 (1965) (In Russian)
63:7795h

NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC TlMnF_3
M. P. Petrov and G. A. Smolenskii
Fiz. Tverd. Tela 7 (7), 2156-61 (1965) (In Russian)
63:12537d

NUCLEAR MAGNETIC RESONANCE IN RbMnF_3
M. P. Petrov, G. A. Smolenskii, and P. P. Syrnikov
Fiz. Tverd. Tela 7 (12), 3689-90 (1965) (In Russian)
64:10622d

FLUORINE-19 NUCLEAR MAGNETIC RESONANCE STUDY OF
SOME PENTAFLUOROSTANNATE COMPLEXES
Ronald O. Ragsdale and Burch B. Stewart
Inorg. Chem. 4 (5), 740-2 (1965)
62:14068a

NUCLEAR MAGNETIC RESONANCE STUDIES OF FLUORIDES OF
TRIVALENT PHOSPHORUS
G. S. Reddy and R. Schmutzler
Z. Naturforsch. 20b (2), 104-9 (1965)
63:1371f

NUCLEAR MAGNETIC RESONANCE ANALYSIS OF GLASS SENSITIVE
MATERIALS
Russell R. Reinhard
Rev. Sci. Instr. 36 (4), 549 (1965)
62:15407e

ANISOTROPY OF THE FLUORINE CHEMICAL SHIFT TENSOR IN
 UF_6
Paul Rigny
Comm. Energie At. (France), Rappt. CEA-R 2827,
30 pp. (1965) (In French)
64:9112b

N,N-DIFLUORO-O-PENTAFLUOROSULFANYLHYDROXYLAMINE
John K. Ruff
Inorg. Chem. 4 (12), 1788-9 (1965)
64:1613b

THE REACTION OF ANTIMONY(V) FLUORIDE WITH TETRA-
FLUOROHYDRAZINE
John K. Ruff
J. Am. Chem. Soc. 87 (5), 1140-1 (1965)
62:11408b

THE PREPARATION AND NUCLEAR MAGNETIC RESONANCE OF
KRYPTON DIFLUORIDE
F. Schreiner, J. G. Malm, and J. C. Hindman
J. Am. Chem. Soc. 87 (1) 25-8 (1965)
62:3639h

THE PREPARATION AND OXYGEN-17 NUCLEAR MAGNETIC RES-
ONANCE SPECTRUM OF $\text{Xe}^{17}\text{OF}_4$
Jacob Shamir, H. Selig, David Samuel, and J. Reuben
J. Am. Chem. Soc. 87 (11), 2359-60 (1965)
63:1374b

CORRELATION BETWEEN CATALYTIC ACTIVITY AND N.M.R.
(NUCLEAR MAGNETIC RESONANCE) CHEMICAL SHIFT OF CsF
V. A. Sokolenko, M. I. Afanas'ev, Yu. N. Molin, and
G. G. Yakobson
Reaktsionnaya Sposobnost Organ. Soedin., Tartusk.
Gos. Univ. 2 (1), 216-21 (1965) (In Russian)
64:4473a

NUCLEAR MAGNETIC RESONANCE OF POLARIZED ^{17}F FORMED
THROUGH THE $^{16}\text{O}(d,n)^{17}\text{F}$ REACTION
K. Sugimoto, A. Mizobuchi, K. Nakai, and K. Matuda
Phys. Letters 18 (1), 38-9 (1965)
64:5970a

THE FLUOROSULFURIC ACID SOLVENT SYSTEM. II. SOLU-
TIONS OF ANTIMONY PENTAFLUORIDE, ANTIMONY TETRA-
FLUORIDE MONOFLUOROSULFATE, AND ANTIMONY PENTA-
FLUORIDE-SULFUR TRIOXIDE MIXTURES
R. C. Thompson, J. Barr, R. J. Gillespie, J. B.
Milne, and R. A. Rothenbury
Inorg. Chem. 4 (11), 1641-9 (1965)
63:17211b

ELECTRONEGATIVITY EFFECTS ON ^{11}B CHEMICAL SHIFTS IN
TETRAHEDRAL BX_4^- IONS
Ralph J. Thompson and Jeff C. Davis, Jr.
Inorg. Chem. 4 (10), 1464-7 (1965)
63:14365d

SILICON-FLUORINE CHEMISTRY. II. SILICON-BORON
FLUORIDES
P. L. Timms, T. C. Ehlert, J. L. Margrave, F. E.
Brinckman, T. C. Farrar, and T. D. Coyle
J. Am. Chem. Soc. 87 (17), 3819-23 (1964)
63:10984d

HIGH ENERGY OXIDIZERS IN SOLUTION: THE SYSTEM
 $\text{F}_2/\text{NF}_3/\text{HF}$
W. E. Tolberg, R. S. Stringham, and M. E. Hill
Am. Chem. Soc., Div. Fuel Chem., Preprints 9 (1),
136-41 (1965)
65:17768c

NUCLEAR DOUBLE RESONANCE OF ^{43}Ca IN CaF_2
R. E. Walstedt, D. A. McArthur, and E. L. Hahn
Phys. Letters 15 (1), 7-8 (1965)
63:164h

RELATIVE SIGNS OF NUCLEAR SPIN COUPLINGS IN
 $^{11}\text{B}^{19}\text{F}_2$
Earl B. Whipple, Thomas H. Brown, Thomas C. Farrar,
and T. D. Coyle
J. Chem. Phys. 43 (5), 1841-2 (1965)
63:14237e

1966

IMPULSE N.M.R. (NUCLEAR MAGNETIC RESONANCE) STUDY
OF INTERNAL MOVEMENT IN SOME SOLIDS
A. G. Akhmedov, R. A. Dautov, and G. T. Petrov
Fiz. Tverd. Tela 8 (3), 858-61 (1966) (In Russian)
64:18732f

NONAQUEOUS SOLUTIONS OF ELECTROLYTES. I. THE ^{76}As
NUCLEAR MAGNETIC SPIN-LATTICE RELAXATION TIMES OF
THE HEXAFLUOROARSENATE ION
M. St. J. Arnold and K. J. Packer
Mol. Phys. 10 (2), 141-53 (1966)
64:18738b

MEASURED NUCLEAR MAGNETIC RESONANCE FREE-INDUCTION-
DECAY SHAPES AND MOMENTS FOR ^{19}F IN CaF_2
D. E. Barnaal and I. J. Lowe
Phys. Rev. 148 (1), 328-31 (1966)
65:8218b

NITROGEN OXIDE TRIFLUORIDE
Neil Bartlett, J. Passmore, and E. J. Wells
Chem. Commun. 213-14, 1966 (7)
64:18948g

- NUCLEAR MAGNETIC RESONANCE AND RELAXATION OF HEXA-FLUORIDE MOLECULES IN THE SOLID
R. Blinc, E. Pirkmajer, J. Slivnik, and I. Zupancic
J. Chem. Phys. 45 (5), 1488-95 (1966)
65:13041a
- NUCLEAR MAGNETIC RESONANCE SPECTRUM OF A NEARLY LINEAR FIVE-SPIN SYSTEM. HYDROGEN BOUNDING IN KH_2F_3
R. Blinc, Z. Trontelj, and B. Volavsek
J. Chem. Phys. 44 (3), 1028-33 (1966)
64:9111d
- NUCLEAR MAGNETIC RESONANCE STUDIES OF SOME MATERIALS CONTAINING BIVALENT EUROPIUM
E. L. Boyd
Phys. Rev. 145 (1), 174-8 (1966)
64:18731c
- NATURE OF Nb(V) FLUORIDE SPECIES IN SOLUTION
M. Nabi Bukhsh
Sci. Res. (Dacca, Pakistan) 3 (1), 48-51 (1966)
64:11572e
- CHEMICAL SHIFTS AND NUCLEAR MAGNETIC RESONANCE SPECTRA OF ^{19}F IN GROUPS V AND VI TRANSITION ELEMENT FLUORIDE SOLUTIONS
Yu. A. Buslaev and V. A. Shcherbskov
Zh. Strukt. Khim. 7 (3), 345-50 (1966) (In Russian)
65:13045g
- PREPARATION AND PROPERTIES OF PENTAFLUOROSULFANYLIMINOSULFUR DIFLUORIDE, $SF_5N:SF_2$
Alan F. Clifford and James Wood Thompson
Inorg. Chem. 5 (8), 1424-7 (1966)
65:8321f
- PENTAFLUOROSULFUR IMINOSULFUR DIFLUORIDE
B. Cohen, T. R. Hooper, and R. D. Peacock
Chem. Commun. 32, 1966 (1)
64:7661a
- INTERPRETATION OF THE CHEMICAL SHIFT OF ClF
C. D. Cornwell
J. Chem. Phys. 44 (3), 874-80 (1966)
64:8937h
- NUCLEAR MAGNETIC RESONANCE STUDIES OF INORGANIC FLUORIDES. II. SOLVENT EFFECTS ON J (^{29}Si - ^{19}F) IN SILICON TETRAFLUORIDE
T. D. Coyle, R. B. Johannesen, F. E. Brinckman, and T. C. Farrar
J. Phys. Chem. 70 (5), 1682-4 (1966)
65:6545a
- NUCLEAR MAGNETIC RESONANCE STUDIES OF DONOR-ACCEPTOR INTERACTION IN BORON TRIHALIDE COMPLEXES. II. DONOR STRENGTHS OF ETHYL ACETATE AND SUBSTITUTED ETHYL ACETATES
P. G. Davies and E. F. Mooney
Spectrochim. Acta 22 (5), 953-5 (1966)
65:2095b
- OSCILLATING-FIELD-INDUCED MAGNETIZATION IN SOLIDS
H. M. Einbinder and S. R. Hartmann
Phys. Rev. Letters 17 (10), 518-21 (1966)
65:17880h
- THE CHEMISTRY OF BIS(MONOFLUOROCARBONYL) PEROXIDE: GENERATION OF THE FLUOROFORMYL RADICAL AND SYNTHESIS OF FLUOROFORMYLSULFURYL FLUORIDE
W. B. Fox and G. Franz
Inorg. Chem. 5 (5), 946-9 (1966)
65:1750a
- TRIFLUORAMINE OXIDE
W. B. Fox, J. S. MacKenzie, N. Vanderkooi, B. Sukornick, C. A. Wamser, J. R. Holmes, R. E. Eibeck, and B. B. Stewart
J. Am. Chem. Soc. 88 (11), 2604-5 (1966)
65:6709g
- NUCLEAR MAGNETIC RESONANCE AND THE ELECTRONIC STRUCTURE OF URANIUM, THORIUM, AND ZIRCONIUM TETRAFLUORIDES
S. P. Gabuda, Yu. V. Gagarinskii, and A. G. Lundin
Zh. Strukt. Khim. 7 (2), 192-9 (1966)
65:3203c
- THE FLUOROSULFURIC ACID SOLVENT SYSTEM. V. IODINE TRIFLUOROSULFATE
R. J. Gillespie and J. B. Milne
Inorg. Chem. 5 (7), 1236-8 (1966)
65:4718f
- THE HYDROGEN FLUORIDE SOLVENT SYSTEM. I. SOLUTIONS OF ANTIMONY PENTAFLUORIDE AND ANTIMONY TETRAFLUORIDE MONOFLUOROSULFATE
R. J. Gillespie and K. C. Moss
J. Chem. Soc., A, Inorg. Phys. Theoret. 1170-5, 1966 (9)
65:14498d
- COUPLING CONSTANT AND CHEMICAL SHIFT OF TETRAFLUOROBORATE ION IN MIXED SOLVENTS
R. Haque and L. W. Reeves
J. Phys. Chem. 70 (9), 2753-7 (1966)
65:12918f
- NUCLEAR-MAGNETIC-RESONANCE STUDIES OF CRITICAL PHENOMENA IN MnF_2 . I. TIME-AVERAGE PROPERTIES
Peter Heller
Phys. Rev. 146 (2), 403-22 (1966)
65:1634c
- PHOSPHORYL AND THIOPHOSPHORYL COMPOUNDS. IV. ^{19}F AND ^{31}P NUCLEAR MAGNETIC RESONANCE SPECTRA OF SPF_3 , SPF_2Cl , AND SPF_2Br
Hans Georg Horn and Achim Mueller
Z. Anorg. Allgem. Chem. 346 (5-6), 266-71 (1966)
65:17934e
- NUCLEAR MAGNETIC RESONANCE STUDIES OF INORGANIC FLUORIDES. I. HIGH-RESOLUTION ^{19}F SPECTRA OF Si_2F_6 AND $(SiF_3)_2O$
Rolf B. Johannesen, T. C. Farrar, F. E. Brinckman, and T. D. Coyle
J. Chem. Phys. 44 (3), 962-4 (1966)
64:9112h
- CONTRASTING BEHAVIOR OF BORON TRIFLUORIDE AND PHOSPHORUS PENTAFLUORIDE TOWARD SULFOLANE
John G. Jones
Inorg. Chem. 5 (7), 1229-32 (1966)
65:5336b

- ^{19}F N.M.R. SPIN ECHO IN ANTIFERROMAGNETIC MnF_2
N. Kaplan, P. Pincus, and V. Jaccarino
J. Appl. Phys. 37 (3), 1239-41 (1966)
64:13583d
- NUCLEAR MAGNETIC RESONANCE INVESTIGATIONS OF THE
STRUCTURE OF GLASSES IN THE SYSTEM $\text{NaFe-Na}_2\text{O-B}_2\text{O}_3$
D. Kline and P. J. Bray
Phys. Chem. Glasses 7 (2), 41-51 (1966)
64:17220b
- METAL TRIFLUOROPHOSPHINE COMPLEXES. XII. IODINE
TETRAKIS(TRIFLUOROPHOSPHINE)COBALT
Th. Kruck and W. Lang
Z. Anorg. Allgem. Chem. 343 (3-4), 181-95 (1966)
(In German)
64:18938d
- NUCLEAR MAGNETIC RESONANCE OF AMMONIUM HEPTAFLUORO-
ZIRCONATE
G. Lahajnar, M. Pintar, and J. Slivnik
Croat. Chem. Acta 38, 63-4 (1966)
65:14676g
- ^{19}F CHEMICAL SHIFT OF DIOXYGEN DIFLUORIDE
N. J. Lawrence, J. S. Ogden, and J. J. Turner
Chem. Commun. 4, 102-3 (1966)
64:18738a
- ANISOTROPY OF MAGNETIC SHIELDING OF ^{19}F NUCLEI IN
 LaF_3 SINGLE CRYSTALS
A. G. Lundin and S. P. Gabuda
Fiz. Tverd. Tela 8 (6), 1889-94 (1966) (In Russian)
65:12991e
- NUCLEAR RESONANCE LINE NARROWING IN SOLIDS BY RE-
PEATED SHORT-PULSE r.f. (RADIO-FREQUENCY) IRRADIA-
TION
P. Mansfield and D. Ware
Phys. Letters 22 (2), 133-5 (1966)
65:13040b
- REACTION OF THE TRIMETAPHOSPHATE ION WITH THE FLUOR-
IDE ION IN AQUEOUS SOLUTION
R. E. Mesmer
J. Inorg. Nucl. Chem. 28 (2), 691-3 (1966)
64:18950a
- DIFLUOROCYANAMIDE
M. D. Meyers and S. Frank
Inorg. Chem. 5 (8), 1455-7 (1966)
65:13197b
- MAGNETIC PROPERTIES OF KMnF_3 . III. NUCLEAR AND
ELECTRON SPIN RESONANCE
V. Minkiewicz and A. Nakamura
Phys. Rev. 143 (2), 356-60 (1966)
64:16798e
- THE ^{19}F NUCLEAR MAGNETIC RESONANCE SPECTRA OF
LIQUID AND GASEOUS FLUORINE, OXYGEN DIFLUORIDE,
AND NITROGEN TRIFLUORIDE
J. W. Nebgen, W. B. Rose, and F. I. Metz
J. Mol. Spectry 20 (1), 72-4 (1966)
65:1627c
- A SIMPLE GLASS APPARATUS FOR NUCLEAR MAGNETIC
RESONANCE SPECTROSCOPY AT LOW TEMPERATURES
J. S. Ogden and J. J. Turner
Chem. Ind. (London) 1295-6, 1966 (30)
65:11575h
- FLUORINE MAGNETIC RESONANCE SHIFTS IN PARAMAGNETIC
 PuF_4
M. Pintar, J. Porok, and J. Slivnik
Croat. Chem. Acta 38, 61-2 (1966)
65:14676f
- NUCLEAR MAGNETIC RESONANCE EVIDENCE FOR CONTACT
HYPERFINE COUPLING IN PARAMAGNETIC UF_4
M. Pintar
Phys. Status Solidi 14 (2), 291-5 (1966)
64:18728c
- FLUOROPHOSPHINE LIGANDS. II. THE PREPARATION AND
CHARACTERIZATION OF DIFLUOROIODOPHOSPHINE
R. W. Rudolph, J. G. Morse, and R. W. Parry
Inorg. Chem. 5 (8), 1464-6 (1966)
65:13197e
- FLUOROPHOSPHINE LIGANDS. III. SYNTHESSES INVOLVING
 PF_2I . THE PREPARATION AND CHARACTERIZATION OF μ -
OXOBISDIFLUOROPHOSPHINE, CYANODIFLUOROPHOSPHINE,
AND TETRAFLUORODIPHOSPHINE
R. W. Rudolph, R. C. Taylor, and R. W. Parry
J. Am. Chem. Soc. 88 (16), 3729-34 (1966)
65:11738b
- THE PREPARATION AND CHEMISTRY OF N-CHLOROIMIDODI-
SULFURYL FLUORIDE
John K. Ruff
Inorg. Chem. 5 (5), 732-5 (1966)
64:17023g
- NUCLEAR MAGNETIC RESONANCE IN THALLIUM HALIDES
Yushiro Saito
J. Phys. Soc. Japan 21 (6), 1072-81 (1966)
65:4871b
- NUCLEAR MAGNETIC RESONANCE IN RARE EARTH FLUORIDES.
V. Saraswati and R. Vijayaraghavan
Phys. Letters 21 (4), 363-4 (1966)
65:9972a
- TRANSPORT PROPERTIES OF LaF_3
A. Sher, R. Solomon, K. Lee, and M. W. Muller
Phys. Rev. 144 (2), 593-604 (1966)
64:15123d
- NUCLEAR MAGNETIC RESONANCE STUDIES OF DIFFUSION IN
LITHIUM FLUORIDE
Thomas Gaines Stoebe
Univ. Microfilms (Ann Arbor, Mich.), Order No. 65-
12,875, 269 pp.; Dissertation Abstr. 26 (7), 3849
(1966)
64:12066g
- MAGNETIC MOMENT OF ^{17}F . NUCLEAR MAGNETIC RESONANCE
BY POLARIZATION FOLLOWING ^{16}O (d,n) ^{17}F REACTION
Kenzo Sugimoto, Akira Mizobuchi, Joji Nakai, Koji
Matsuda
J. Phys. Soc. Japan 21 (2), 213-21 (1966)
64:18738c
- NUCLEAR MAGNETIC RESONANCE AND ELECTRON PARAMAG-
NETIC RESONANCE SPECTRA OF LITHIUM PLATELETS IN
LITHIUM FLUORIDE
Christiane Taupin
Compt. Rend., Ser. A, B 262B (25), 1617-20 (1966)
(In French)
65:11576d

THE SYNTHESIS OF THE PERFLUOROAMMONIUM CATION, NF_4^+
W. E. Tolberg, R. T. Rewick, R. S. Stringham, and
M. E. Hill
Inorg. Nucl. Chem. Letters 2 (3), 79-82 (1966)
65:6709c

NUCLEAR MAGNETIC RESONANCE IN RbMnF_3
M. B. Walker and R. W. H. Stevenson
Proc. Phys. Soc. (London) 87 (1), 35-43 (1966)
64:5969b