

**CELEBRATING
40 YEARS!**

RECLU DU PRAT

August 11, 1997

Volume 37

Number 32

CURRENT CONTENTS®

Physical, Chemical & Earth Sciences



INCLUDING

- Analytical Chemistry • Applied Physics • Astronomy • Astrophysics**
- Atmospheric Sciences • Chemical Physics**
- Chemistry • Condensed Matter • Crystallography**
- Earth Sciences • Electrochemistry**
- Inorganic & Nuclear Chemistry • Materials Science**
- Mathematical Physics • Mathematics • Meteorology • Optics**
- Organic Chemistry • Paleontology**
- Particle & Nuclear Physics • Physical Chemistry**
- Physics • Physics-Fluids & Plasmas • Polymer Science • Spectroscopy**
- Statistics & Probability**

X CCP10212502 32 97 001 DOM
LIBRIS
C/O MCGREGOR FR
LIBRIS ALGER 21693951
POB 992
OREGON
IL 61061

Not all journals covered by *Current Contents* are published weekly. Therefore, in any given issue your favorite journal may not be listed. However, it will be included as often as it is issued. For the complete List of Serials covered and the latest Publisher Guide see issue #30, July 28, 1997. For the latest Triannual Cumulative Index see issue #21, May 26, 1997.

FEATURED IN THIS ISSUE OF CURRENT CONTENTS®/PHYSICAL, CHEMICAL AND EARTH SCIENCES

FEATURES

5 Current Book Contents®

DISCIPLINE GUIDE

8 Multidisciplinary

15 Physics

40 Applied Physics/Condensed Matter/
Materials Science

96 Physical Chemistry/Chemical Physics

132 Chemistry

153 Spectroscopy/Instrumentation/Analytical

Sciences

167 Organic Chemistry/Polymer Science

196 Inorganic & Nuclear Chemistry

202 Earth Sciences

221 Space Science

222 Mathematics

INDEXES

232 Title Word Index

290 Author Index & Address Directory

332 Publishers Address Directory

Current Contents processes all journal issues within two weeks of their receipt and makes every reasonable effort to insure their prompt delivery to ISI. Please note that the cover dates of some journals do not correspond to the actual publication dates.

If a journal is covered in more than one *CC*®, a letter code appears in parentheses next to the volume and issue number to identify which editions: (L)=Life Sciences; (P)=Physical, Chemical & Earth Sciences; (S)=Social & Behavioral Sciences; (A)=Agriculture, Biology & Environmental Sciences; (C)=Clinical Medicine; (E)=Engineering, Computing & Technology; (H)=Arts & Humanities.

JOURNALS APPEARING IN THIS ISSUE:

- | | | | |
|-----|---------------------------------------|-----|-------------------------------------|
| 222 | ACTA APPL MATH,47 (3) | 11 | CHIN SCI BULL,42 (11) |
| 221 | ACTA ASTRONOM,47 (2) | 12 | CHIN SCI BULL,42 (14) |
| 222 | ACTA MATH,178 (2) | 11 | CHIN SCI BULL,42 (7) |
| 40 | AMER CERAM SOC BULL,76 (7) | 157 | CHROMATOGRAPHIA,44 (11-12) |
| 153 | ANAL CHEM,69 (14) | 167 | COLLOID POLYM SCI,275 (6) |
| 155 | ANAL CHIM ACTA,346 (1) | 15 | COMMUN MATH PHYS,186 (2) |
| 156 | ANAL CHIM ACTA,346 (2) | 196 | COORD CHEM REV,161 (MAY) |
| 132 | ANGEW CHEM INT ED,36 (11) | 13 | CURR SCI,73 (1) |
| 133 | ANGEW CHEM INT ED,36 (12) | 99 | DENKI KAGAKU,65 (7) |
| 15 | ANN PHYS N Y,257 (2) | 224 | DUKE MATH J,89 (1) |
| 202 | APPL GEOCHEM,12 (3) | 222 | EARTH MOON PLANET,75 (2) |
| 222 | APPL MATH LETT,10 (4) | 205 | ECON GEOL BULL SOC ECON GEOL,92 (2) |
| 41 | APPL OPT,36 (20) | 100 | ELECTROCHIM ACTA,42 (17) |
| 134 | APPL ORGANOMETAL CHEM,11 (7) | 45 | EUR J MECH A-SOLID,16 (4) |
| 43 | APPL PHYS LETT,71 (2) | 45 | EUR J MECH B-FLUID,16 (4) |
| 45 | APPL SUPERCOND,4 (7-8) | 196 | EUR J SOLID STATE INORG CHEM,34 (4) |
| 9 | ARCH HIST EXACT SCI,50 (3-4) | 167 | EUR POLYM J,33 (6) |
| 223 | ARCH RATION MECH ANAL,137 (4) | 16 | EUROPHYS LETT,39 (1) |
| 223 | ARCH RATION MECH ANAL,138 (1) | 206 | FIZ ZEMLI,1997 (4) |
| 203 | ATMOS ENVIRON,31 (17) | 17 | FOUND PHYS,27 (4) |
| 204 | ATMOS RES,44 (3-4) | 147 | GAZZ CHIM ITAL,127 (1) |
| 135 | AUST J CHEM,50 (5) | 147 | GAZZ CHIM ITAL,127 (2) |
| 204 | AUST METEOROL MAG,46 (2) | 148 | GAZZ CHIM ITAL,127 (3) |
| 96 | BER BUNSEN-GES PHYS CHEM CHEM,101 (7) | 17 | GEN RELATIV GRAVIT,29 (7) |
| 223 | BIOMETRIKA,84 (2) | 206 | GEOKHIMIYA,1997 (4) |
| 204 | BOUND-LAY METEOROL,84 (1) | 207 | GEOL MIJNBOW,75 (4) |
| 135 | BULL KOR CHEM SOC,18 (6) | 207 | GEOLOGICA CARPATHICA,48 (3) |
| 137 | BULL SOC CHIM BELG,106 (4) | 208 | GEOPHYS J INT,130 (1) |
| 97 | CATAL TODAY,37 (1) | 169 | HETEROCYCLES,45 (6) |
| 137 | CHEM BRIT,33 (7) | 209 | HOLOCENE,7 (2) |
| 138 | CHEM COMMUN,1997 (13) | 17 | IEEE TRANS PLASMA SCI,25 (2) |
| 205 | CHEM GEOL,140 (1-2) | 19 | IEEE TRANS PLASMA SCI,25 (3) |
| 140 | CHEM IND-LONDON,1997 (13) | 20 | INDIAN J PURE APPL PHYS,35 (4) |
| 141 | CHEM J CHINESE UNIV-CHINESE,18 (4) | 20 | INDIAN J PURE APPL PHYS,35 (5) |
| 143 | CHEM LISTY,91 (6) | 101 | INT J CHEM KINET,29 (8) |
| 97 | CHEM PHYS,220 (1-2) | 209 | INT J CLIMATOL,17 (8) |
| 98 | CHEM PHYS LETT,272 (5-6) | 101 | INT J THERMOPHYS,18 (3) |
| 143 | CHEM-EUR J,3 (5) | 224 | INVENT MATH,129 (1) |
| 144 | CHEM-EUR J,3 (6) | 21 | IZV AKAD NAUK FIZ,61 (4) |
| 145 | CHEM-EUR J,3 (7) | 225 | J ALGEBRA,193 (1) |
| 146 | CHIMIA,51 (6) | 46 | J ALLOYS COMPOUNDS,255 (1-2) |
| 10 | CHIN SCI BULL,42 (1) | 47 | J ALLOYS COMPOUNDS,256 (1-2) |

CONTINUED

CONTINUED

- 49 J AMER CERAM SOC,80 (7)
 148 J AMER CHEM SOC,119 (27)
 210 J APPL METEOROL,36 (7)
 225 J APPL PROBAB,34 (2)
 226 J APPROX THEOR,90 (1)
 102 J CHEM CRYSTALLOGRAPHY,27 (4)
 102 J CHEM PHYS,107 (3)
 104 J CHEM SOC FARADAY TRANS,93 (13)
 105 J CHEM TECHNOL BIOTECHNOL,69 (3)
 106 J CHIM PHYS PHYS-CHIM BIOL,94 (6)
 157 J CHROMATOGR A,773 (1-2)
 159 J CHROMATOGR A,783 (2)
 106 J CRYST GROWTH,174 (1-4)
 111 J CRYST GROWTH,177 (1-2)
 112 J CRYST GROWTH,177 (3-4)
 159 J ELECTROANAL CHEM,427 (1-2)
 160 J ELECTROANAL CHEM,428 (1-2)
 51 J ELECTRON MATER,26 (7)
 22 J EXP THEOR PHYS,84 (5)
 23 J FLUID MECH,341 (JUN 25)
 196 J FLUORINE CHEM,83 (1)
 197 J FLUORINE CHEM,83 (2)
 210 J GEOL SOC,154 (JUL)P4
 211 J GEOPHYS RES-SOLID EARTH,102 (B7)
 213 J GLACIOLOGY,43 (143)
 170 J HETEROCYCL CHEM,34 (3)
 226 J KNOT THEOR RAMIFICATIONS,6 (3)
 52 J LOW TEMP PHYS,108 (1-2)
 52 J LUMINESC,72-4 (JUN)
 66 J MATER CHEM,7 (7)
 67 J MATER SCI,32 (13)
 68 J MATER SCI LETT,16 (13)
 150 J MEMBRANE SCI,128 (2)
 113 J MOL STRUCT,407 (2-3)
 70 J NON-CRYST SOLIDS,215 (1)
 24 J NON-EQUIL THERMODYN,22 (1)
 172 J ORG CHEM,62 (14)
 175 J ORGANOMETAL CHEM,535 (1-2)
 176 J ORGANOMETAL CHEM,536 (1-2)
 179 J ORGANOMETAL CHEM,538 (1-2)
 180 J ORGANOMETAL CHEM,539 (1-2)
 181 J ORGANOMETAL CHEM,540 (1-2)
 114 J PHYS CHEM A,101 (28)
 115 J PHYS CHEM B,101 (28)
 24 J PHYS I,7 (7)
 150 J PHYS ORG CHEM,10 (4)
 24 J PHYS-A-MATH GEN,30 (13)
 26 J PHYS-B-AT MOL OPT PHYS,30 (12)
 70 J PHYS-CONDENS MATTER,9 (26)
 71 J PHYS-CONDENS MATTER,9 (27)
 72 J PHYS-D-APPL PHYS,30 (13)
 116 J POWER SOURCES,66 (1-2)
 227 J PURE APPL ALG,119 (1)
 214 J SEDIMENT RES,67 (4)PB
 215 J SOUTHEAST ASIAN EARTH SCI,14 (5)
 26 J STATIST PHYS,87 (3-4)
 27 J STATIST PHYS,87 (5-6)
 183 KHIM GETEROTSIKL SOEDIN,1997 (5)
 117 LANGMUIR,13 (14)
 161 LC GC-MAG SEPARATION SCI,15 (7)
 215 LETHAIA,30 (2)
 151 LIEBIGS ANN-RECL,1997 (7)
 184 MAGN RESON CHEM,35 (7)
 216 MAR GEOLOGY,139 (1-4)
 73 MATER SCI ENG A-STRUCT MATER,225 (1-2)
 74 MATER SCI ENG A-STRUCT MATER,226 (JUN 15)
 227 MATH METH APPL SCI,20 (10)
 227 MATH METH APPL SCI,20 (11)
 227 MATH Z,225 (2)
 216 METEORIT PLANETARY SCI,32 (1)
 217 MICROPALEONTOL,43 (1997)S1
 217 MICROPALEONTOL,43 (2)
 28 MOD PHYS LETT A,12 (18)
 81 MOD PHYS LETT B,11 (9-10)
 119 MOL CRYST LIQ CRYST SCI TEC A,294
 124 MOL CRYST LIQ CRYST SCI TEC A,297
 126 MOL PHYS,91 (4)
 228 MONATSH MATH,124 (1)
 82 MRS BULL,22 (7)
 218 N Z J GEOL GEOPHYS,40 (2)
 83 NANOSTRUCT MATER,8 (4)
 8 NATURE,388 (6640)
 162 NUCL INSTRUM METH PHYS RES A,388
 163 NUCL INSTRUM METH PHYS RES A,390
 164 NUCL INSTRUM METH PHYS RES A,390
 165 NUCL INSTRUM METH PHYS RES A,391
 28 NUCL PHYS A,620 (2)
 29 NUCL PHYS B,496 (1-2)
 29 NUCL PHYS B,496 (3)
 30 NUCL PHYS B,497 (1-2)
 228 NUMER MATH,76 (4)
 31 NUOVO CIMENTO A-NUCL PART F,110
 218 OKEANOLOGIYA,37 (2)
 83 OPT ENG,36 (7)
 85 OPTICS LETTERS,22 (14)
 220 ORG GEOCHEM,26 (5-6)
 184 ORGANOMETALLICS,16 (14)
 86 PHIL MAG A,76 (1)
 87 PHIL MAG B,76 (1)
 87 PHIL MAG LETT,76 (1)
 14 PHIL TRANS ROY SOC LONDON A,355
 31 PHYS LETT B,404 (1-2)
 32 PHYS LETT B,404 (3-4)
 33 PHYS REP-REV SECT PHYS LETT,286 (2)
 33 PHYS REP-REV SECT PHYS LETT,286 (3)
 33 PHYS REP-REV SECT PHYS LETT,286 (4)
 33 PHYS REV LETT,79 (2)
 35 PHYS SCR,56 (1)
 88 PHYS STATUS SOLIDI A-APPL RES,161
 36 PHYS WORLD,10 (7)
 186 POLYM ADVAN TECHNOL,8 (6)
 186 POLYM DEGRAD STABIL,57 (2)
 187 POLYM INT,43 (3)
 187 POLYMER,38 (16)
 37 PRAMANA-J PHYS,48 (5)
 228 PROBAB THEORY RELAT FIELD,108 (2)
 229 PROC AMER MATH SOC,125 (7)
 230 PROC LONDON MATH SOC,75 (JUL)P1
 15 PROC ROY SOC LONDON SER A,453 (195)
 220 PROG PHYS GEOG,21 (2)
 37 PROG THEOR PHYS SUPPL,1997 (126)
 198 RADIOCHEMISTRY-ENGL TR,39 (2)
 221 REMOTE SENS ENVIRON,61 (2)
 89 SEMICONDUCTORS-ENGL TR,31 (7)
 91 SOLID STATE COMMUN,103 (5)
 127 SURF SCI REP,28 (1-2)
 221 TECTONOPHYSICS,274 (4)
 189 TETRAHEDRON,53 (27)
 190 TETRAHEDRON,53 (28)
 191 TETRAHEDRON LETT,38 (27)
 193 TETRAHEDRON LETT,38 (28)
 195 TETRAHEDRON-ASYMMETRY,8 (12)
 127 THEOCHEM-J MOL STRUCT,395 (MAY 26)
 129 THEOCHEM-J MOL STRUCT,397 (JUN 2)
 199 THERMOCHIM ACTA,294 (2)
 199 THERMOCHIM ACTA,295 (1-2)
 200 THERMOCHIM ACTA,296 (1-2)
 91 THIN SOLID FILMS,297 (1-2)
 94 THIN SOLID FILMS,302 (1-2)
 230 TRANS AMER MATH SOC,349 (7)
 96 VACUUM,48 (6)
 201 Z ANORG ALLG CHEM,623 (7)
 152 Z NATURFORSCH SECT B,52 (6)
 130 ZEOLITES,18 (5-6)
 130 ZH FIZ KHIM,71 (4)

The publisher's name appears with the journal title of each contents page. The address of each publisher is provided of this issue.