Supplement to <i>Acta Cryst.</i> (1976). B 32 , 1957–1959	SUP3156
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I. D. DIOWII aliu K. K. Wu	
I. D. Brown and K. K. Wu	varences
Empirical parameters for calculating cation—oxygen bond v	valences
Science ISSN 0108-7681	
Structural	

Empirical Parameters for Calculating Cation Oxygen Bond Valences

I.D. Brown and Kang Kim Wu

Table 2

(15 pp)

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66 ACBCA 24 1053 6.91(9) AG MN.04
67 INOCA 5 503 6.96(7) K MN.04
74 ACIEA 13 603 6.48(37) (H3.0)2 MN (HN.04)6 (H2.0)11
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63 ACCRA 16 957 2.59(20) Y MN.03
63 ZEKGA 118 303 3.05(8) GAMMA MN 0 0.H
68 ACBCA 24 1233 3.01(2) ALPHA MN 0 0.H
67 ACSAA 21 2671 3.07(3) ALPHA MN2.03
67 ACSAA 21 2671 2.90(3) ALPHA MN2.03
67 ACSAA 21 2671 2.90(2) ALPHA MN2.03
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*369 306 1.97(5) MN V2 04

24 23 2.02(5) MN V2 04

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3 161 2.99(3) BETA MN2 6E.04

3 161 2.99(3) BETA MN2 6E.04

356 125 2.13(6) MN 5E.04

130 139 2.09(3) MN 6E.03

50 1054 2.45(6) **LAUEITE* MN FE2 (P.04)2 (0.4)2 (H2.0)

50 1054 2.45(6) **LAUEITE* MN FE2 (P.04)2 (0.4)2 (M2.0)

119 117 1.04(1) ZN2 MN (0.4)2 S1.04

119 117 1.04(1) ZN2 MN (0.4)2 S1.04

119 117 1.04(1) MN S.04

11 382 1.97(2) LN MN S.04

53 733 1.66(7) MN F.04

53 733 1.66(7) MN F.04

53 733 2.00(7) MN F.04

55 2023 1.75(4) MN9 (0.4)2 (AS.04)2

55 2023 1.75(4) MN9 (0.4)2 (AS.04)2

55 2023 1.75(4) MN9 (0.4)9 (M2.0)2 AS3.011

55 2023 2.05(7) MN7 (0.4)6 (AS.04)2

55 2023 1.98(4) MN9 (0.4)9 (M2.0)2 AS3.011

55 2023 2.05(4) MN9 (0.4)9 (M2.0)2 AS3.011

55 2023 2.05(4) MN9 (0.4)9 (M2.0)2 AS3.011

21 590 2.98(6) MN2 V2.07

14 1352 2.09(8) MN F.1.03

26 540 1.97(2) GAZ NN (P.04)2 (M2.0)2

43 2533 2.15(1) ALPHA MN M0.04

43 2533 2.15(1) ALPHA MN M0.04

132 1 1.90(2) MN7 IA12 (S.04)13 (M2.01)5

133 1 2.00(2) MN7 IA12 (S.04)13 (M2.01)5

133 1 2.00(2) MN7 IA12 (S.04)13 (M2.01)5

134 1 2.00(2) MN7 IA12 (S.04)13 (M2.01)5

129 427 1.76(2) FE3 MN2 (G.04)5

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19 971 2.93(5) Y3 FE5 012

19 971 3.10(+) Y33 FE5 012

19 971 3.10(+) Y33 FE5 012
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22 766 2.9b(4) NA3 FE5 09
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25 1469 3.02(4) FE V.04
26 117 3.05(3) FE V.04
27 11 3.05(3) FE V.04
28 11 3.03(4) FE V.04
29 11 NA FE S12
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26 1917 3.05(3) K FE U.3
26 2008 3.03(1) NA FE U.3
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28 2008 2.95(1) SM FE U.3
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 65 ACCRA 19 971
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67 ACCRA 22 766
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1.90(14) N1 W.04
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2.02(6) N1 SE.04
2.10(33) AG3 NI (C5 H7 02)3 (N.03)2 H2.0
2.11(1) N12 V2.07
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379 157 1.73(5) LIZ CU.02

130 251 2.64(5) CU YNZ AS 2.08

48 2619 2.11(2) CU M0.04

48 2619 2.17(3) CU M0.04

48 2619 2.17(3) CU M0.04

48 2619 2.17(3) CU M0.04

23 15 1.91(3) CU5 V2.010

29 1336 2.07(3) CU5 V2.010

29 1336 2.02(3) CU5 V2.010

29 1336 2.02(3) CU5 V2.010

29 1338 1.95(3) CU5 V2.010

20 1338 1.95(3) CU2 U5.04

20 16 1009 2.06(6) CU2 U5.04

21 1377 2.03(1) CU2 CA2 S13 O10 (H2.0)2

46 917 2.04(6) CU3 AS 2.06

46 917 2.04(6) CU3 AS 2.06

46 917 2.05(4) CU3 AS 2.06

46 917 2.05(4) CU3 AS 2.06

46 917 2.03(4) CU3 AS 2.06

47 2.03(4) CU3 AS 2.06

48 777 2.03(4) CU3 AS 2.04 (O.H)3

18 777 2.03(4) CU3 AS 2.04 (O.H)3

20 8 1.95(1) CU-0.04 (H2.0)5

21 437 1.96(3) CU2 AS 2.04 (O.H) (H2.0)5

21 437 1.96(3) CU2 AS 2.04 O.H (H2.0)3

22 665 95 2.05(2) AUT (H2.0)3

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        71 ANHIA
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2.40(3) SR (06 H11 06)2

1.99(4) SR 84.07

1.64(1) SR 863.04

2.12(2) SR 0.03

1.99(3) SR2 U.05

1.53(3) SR2 U.05

2.39(13) SR3 U.06
              69 ACBCA
66 ACCKA
69 ACBCA
70 ZEKGA
                                                                                          25 714
20 274
25 1047
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131 455
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                70 ZEKGA
AGBUAA
AGGBUAA
AGGBUA
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1.90(10)
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SR3 U.06
SR U.04
SR U.04
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1.51(1)
2.05(2)
2.10(1)
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SK2 CR.04
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26 157 2.75(7) SR2 CR.04

1966 253 2.00(7) SR2 B2.05

1966 253 2.00(7) SR2 B2.05

56 1934 2.20(4) SR2 (05.08 (0.H))2 B (0.H)3 H2.0

56 1934 2.06(4) SR2 (05.08 (0.H))2 B (0.H)3 H2.0

27 2429 2401(1) SR (H C.02)2 (H2.0)2

1971 241 2.05(3) SR AL3 (P.04)2 (0.H)2 H2.0

135 399 2.22(9) SR SR2 V2.07

4 67 1.66(4) BETA SR2 V2.07

4 67 1.66(4) BETA SR2 V2.07

4 67 1.92(4) BETA SR2 V2.07

58 079 1.04(2) SR (1.03)2 H2.0

28 3005 2.04(1) SR5 (P.04)3 U.H

28 3005 1.97(1) SR5 (P.04)3 U.H

28 3005 1.97(1) SR5 (P.04)3 U.H
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71 NUMHA
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72 ZEKGA
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Y2 SI BE2.07

AL5 Y3 012

GA5 Y3 012

FE5 Y3 012

Y2.03

Y2.03

Y2.11 05

Y2.8E.04

Y2.BE.04

Y2.BE.04

Y2.BE.07

Y2.SI2.07

Y2.SI2.07

MR2.Y(0.H). AS.04

Y.V. 04
            69 ACBCA
65 ACCRA
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68 ACBCA
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3.19( 3)
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                68 ACBCA
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2.08(24)
                67 ACCRA
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       79 ZEKGA
71 KRISA
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NA2 ZR (S.04)3 (HZ.6)3

ZR SI.0+

K ZRZ (F.04)2

ZR (S.0+)3 (HZ.0)2

ZR (I.03)4

GAMMA ZR (S.04)2 HZ.0

ALPHA ZR (S.04)2 HZ.0

ALPHA ZR (S.04)2 HZ.0

ALPHA ZR (S.04)4 (HZ.0)19

ELIA ZRZ (S.04)4 (HZ.0)10

ELIA ZRZ (S.04)4 (HZ.0)10

ELIA ZRZ (S.04)4 (HZ.0)10

ELIA ZRZ (S.04)5 HZ.0

ZR4 (U.H)6 (CR.04)5 HZ.0

ZR (GB.H)6 (CR.04)5 HZ.0

ZR (GB.H)6 (CR.04)5 HZ.0
         71 ACBCA
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3.93(8)
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AUBCA
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                69 ACBGA
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N8(5)-0
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CA NB2 06
LI NB3 08
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4.99(5)
5.01(4)
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4.95(4) LI NB3 06
4.93(4) LI NB3 06
5.30(30) GD2 NB2 07
4.90(6) GA NB404
5.10(12) NA2 NB4 011
4.91(16) NA2 NB4 011
5.02(22) NA2 NB4 011
5.02(4) LI NB3 08
5.04(4) LI NB3 08
5.04(4) LI NB3 08
5.04(4) LI NB3 08
5.05(5) K NB4 03
5.14(2) N-NA NB 03
5.14(2) N-NA NB 03
 72 CSGMC
72 CJCHA
65 ACCRA
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874
   70 JSSCB
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71 AGSAA
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5.02(4) LI NB3 08

5.04(4) LI NB3 06

5.00(4) LI NB3 06

4.85(5) K NB-03

5.14(2) N-NA NB 03

4.92(3) BA3 SI4 NB0 026

5.24(15) BA4 NA2 NB10 030

5.07(14) BA4 NA2 NB10 030
      71 AUSAA
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65 ZEKGA
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95 ACCRA
   73 ACBGA
    73 ACBCA
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CS PR (M0.04)2

(N.H4)2 H02.07

61.44)2 M02.07

812 (H0.04)3

812 (H0.04)3

812 (H0.04)3

AG6 M010 033

AG6 H010 033
                  3 ACBCA
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923
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   72 KRISA
74 ACIEA
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5.99(10)

5.79(10)

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      76 JSSCU
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Li MO:02-A5:04
B12 MU:06
    79 AGSGA
74 AGSGA
74 AGSGA
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74 AGSGA
                                                                                                                                                          812 MU.06

-90 (7) (N.H4) 6 MG8 C27 (H2.0) 4

-67 (7) (N.H-16 MG8 D27 (H2.0) 4

-87 (7) (N.H-16 MG8 D27 (H2.0) 4

-87 (7) (N.H4) 6 MG8 D27 (H2.0) 4

-87 (7)
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ab (1) -0
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AG (OZ P (O CZ.ND)Z)
AGZ S.O3
N.HZ C.HZ C.O O.H AG N.O3
         72 ACBCA 28 1774
72 ACBCA 28 2951
69 ACSAA 23 2261
72 ACBCA 28 1485
70 JSSCB 1 484
                                                                  1.05(1)
0.97(4)
1.07(2)
1.10(5)
                                  70 JSSCB
         el ACCAM
        be ACCRA
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                                                                                             00(2)-0
       72 ZAACA 392 209
71 ZAACA 38Z 270
72 AGBGA 28Z 2567
67 CJGHA 47 3409
69 CJCHA 47 3409
71 AGSAA 25 1-7
72 JCDTB 1972 956
74 CSCHC 3 757
72 CJCHA 50 3646
                                                                                                   K2 CD 02

K2 CD2 03

K2 CD ($ .04) 2 (42.0) 1.5

CD2 V2 07

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K2 CD (SE 04) 2 (42.0) 2

(2-1410420LD100NE) 6 CD CL 04

SETA CD V2 D6

K2 CD (5.04) 2 (42.0) 1.5
                                                                        1.73( 6)
2.07(11)
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2173( 3)
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2.09(4)
2.30(5)
1.91(2)
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2.12(6)
2.24(7)
2.13(7)
2.13(7)
2.17(2)
         IN(3)-0
                                                                    2.94(27) R82 IN4 07

3.17(20) R92 IN4 07

2.53(27) NA IN (N.04)2

3.15(16) K IN (N.04)2

3.13(13) CU2 IN2 05

3.03(12) CU2 IN2 05

3.22(13) CU2 IN2 05

2.63(11) CU2 IN2 05

2.64(16) IN2.03

3.54(11) IN2.03

3.54(11) IN2.03
                                     409 97
409 97
2 276
16 292
24 300
          74 ZAAGA
          74 ZAACA
70 USSCB
          71 KRISA
66 ACBCA
66 ACBCA
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          68 ACBCA
68 AC BCA
66 AC CRA
66 ACCRA
61 ACCRA
70 ACSAA
                                                     300
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723
                                                                                                             IN P.04 (H2.0) 2
IN 0.0.H
                                          14 1140
24 1552
                                                                          3.00(17)
                                                                          2. 92( 2)
                                                                                                  Si. (4)-0
                                          46 859 4.02(35) SM2 SN2-07
31 511 4.00(2) K4 SH 04
46 859 4.12(13) Y2 SN2 07
27 502 8.42(35) SN YE3 06
24 1267 4.79(10) NA4 SN2 GE2 012 (0H)4
24 1257 4.79(10) NA4 SN2 GE2 012 (0H)4
46 859 3.73(6) LA2 SN2 07
92 3635 3.00(3) SN 0H (C7 H5 02)3
68 CICHA
5 ACBCA
68 CJCHA
71 ACBCA
           ACSAA
70 ACSAA
AACSA 07
AHOLU 86
            70 JACSA
                                                                                                   Su (5)-0
                                                                                                           BETA SB2.04
HH7 SB AS OLZ
K2 SB4 O11
K2 SB4 O11
K2 SB4 C11
K3 SB5 O14
K3 SB5 O14
           ga Posla
                                                                           5.341 9)
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           ZO AMITIA
Z4 AGEGA
Z4 AGEGA
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TE (6) -0
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K4 (TE2 06 (0.H)4) (H2.0)7
H2 TE2 06
TE2 05
H63 TE-06
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    ng ACSAA
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    ACBGA
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     73 ACHCA
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0.13(R1) SR2 NI TE 06

6.06( 1) TE (0.4)6

6.07( 1) TE (0.4)6

6.07( 1) BAZ NI TE 06

9.04(31) BAZ NI TE 06
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85
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   73 ACSAA
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72 ZAAGA
72 ZAAGA
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28 75
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K4 (12 010 H2) (H2.0)3
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    70 ACBCA
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7.12(13)
7.32(19)
6.70(39)
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CU (H3 1.06) (H2.0)3
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G52 PB.03

G52 PB.03

G52 MN2 (C2.04)3 (H2.9)3

G53 MN2 (C2.04)2 (H2.0)12

G5 AL (S.04)2 (H2.0)12

G5 B9 014

G5 G.H3 S.03

G52 CU (H2.0)6 (S.04)2

CS2 B6 010

G5 TI (S.04)2 (H2.0)12

G5 V2 DB

G5 V2 DB

G5 PR (M0.04)2

G5 H (G4 H4 04) H2.0

G52 G0 03

G52 G0 03

G53 G3 (SE.03)2
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HA6 TI17 U40

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2.07(1) BAZ CO (P.03) 6

1.90(1) BAZ CO (P.03) 6

1.75(1) BAZ SI.04

2.25(2) BAZ SI.04

2.25(2) BAZ SI.04

2.21(1) BA GAZ SIZ 08

2.21(1) BA (C6 H6 Oy S) (H2.0) 2

2.22(6) BA3 (V.04) 2

2.10(4) BA3 (V.04) 2

2.10(4) BA3 SI4 NB6 026

2.08(4) BA NA P3.09
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PR (G.H8 ACAC)3
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PRZ SIZ 07 HIGH TEMP
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71 ZEKGA
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3.03(5)
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72 KRISA
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3.42(26)
3.04(1)
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5.1-(4) ND2 SI2.07

3.40(3) ND4 REZ 011

3.13(4) ND4 REZ 011

3.42(3) ND P5 014

3.37(4) ND (1.03)3 H2.0

3.03(4) NA5 ND (C+ H4 05)3 (CL.04)2

3.07(1) ND FE.03
        70 ACECA
       70 ACSAA
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74 ACSCA
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SH2 SI2 07
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SM (BH.03)3 (H2.D)9
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#3 #288A	\$8 2885	3:33{ 1}	8¥3+EE53012	The state of the s
74 CBCA 70 4CBCA 63 4CSAA	30 2513 26 2005 23 1253	3.11(8) 2.96(1) 3.21(4)	HO (C2.H5 S.O3)3 (H2.D]4 HO FE.O3 ER ((H.O C.H2 C.O2) (O C.H2	C. 02) H2.0) H2.(
70 ACBCA 70 ACBCA 72 ACBCA	26 2008 26 484 28 2335	2.94(1) 2.97(2) 3.34(5)	(3)-0 ER FE-03 ER2 SI2 07 ER (C-H3 ACAC)3	
71 LCBCA	28 2900	2.92(L)	(3)-0 TM FE 03 (3)-0	
78 MX200A 78 MX210A 77 MX210A 77 MX210A 77 MX210A 70 MX2	26 484 14 985 14 987 19 971 19 971 19 971 19 971 24 200 26 200 26 200 26 200 26 200	3.03(2) 3.09(3) 2.09(3) 2.09(4) 2.73(2) 2.77(2) 3.97(2)	Y32 S12 07 Y82 S1 05 Y32 S1 05 Y33 AL5 012 YE3 GA5 012 YE3 FE5 012 Y83 FE5 012 1.45 (Y8 (C+ H4 05)3 (CL-04) Y8 FE.U3	2
73 4UBCA 73 4UBCA 73 4UCCRA 60 4UCCRA 60 4CC 60 AC	29 141 29 141 19 971 19 971 19 971 26 2003	3.25(2) 3.19(1) 3.19(1) 2.08(5) 2.08(5) 2.01(5) 2.97(2)	(3)-0 LU P.04 - LU AS.04 - LU3 AL5 012 - LU3 GA5 012 - LU3 FE5 012 - LU3 FE5 012 - LU3 FES 012	
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61 INOCA
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563 1.00(6) TL4 U3

563 1.00(5) TL4 U3

1/55 1.07(4) TL3 P.04

177 1.65(6) TL3 8.03

371 0.00(1) TL2 CU (H2.0)6 (S.04)2

359 0.99(1) TL M.03 - III

345 0.99(1) TL2 CU (S.03)2
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1.91(3) PB6 B10 021

2.07(4) PB6 B10 021

1.96(3) PB TI3 07

2.07(8) PB2 0 S.04

2.13(8) PB2 0 S.04

2.13(8) PB2 0 S.04

2.14(2) PB2 V2.07

1.95(2) PB2 V2.07

2.54(6) PB M0.04

1.80(7) PB SE.03

1.89(6) CU2 PB5 (S.04)3 C.03 (O.H)6

2.11(5) CU2 PB5 (S.04)3 C.03 (O.H)6

2.12(6) CU2 PB5 (S.04)2

2.13(6) LON PB3 (P.04)2

2.12(6) LON PB3 (P.04)2

2.12(6) LON PB3 (P.04)2

2.15(2) K2 PB CU (N.02)6
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2.75(14) 6I2 M0.06
3.23(3) 8I2 (M0.04)3
3.14(4) BI2 (M0.04)3
2.67(7) BI (02 C.H)3
2.70(7) BI (02 C.H)3
2.59(7) BI (02 L.H)3
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69 AGSA4
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69 AÇEÇA
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CA3 U.06
CA2 U.05
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69 ACBCA
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BA U.04

CA U.04

ALPHA U.02 (0.H)2

BETA U.02 (0.H)2

BETA U.05

H2 U.0 010

U2 U.0 010

U2 U.0 010

U2 U.0 010

U.0 2 H2 0 (CD (N.H2)2) + (N.03) 2

C.0 2 U.H2 0 -C.H2 C.02 U.02

(U.0 2) 2 GE.0 4 (H2.0) 2

CU (H2.0) + (U.0 2 A GE.0 4) 2 (H2.0
69 AGBGM
69 ACHCA
 70 ACBCA
      ACUCA
 70 ACHUA
72 ACHUA
 72 AGHGA
 74 ACBGA
74 ACBGA
72 INUGA
74 ACBGA
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 75 ACBCA
75 AGBCA
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LIST OF JUURNAL CODENS USED

```
AUACB AGTA CRYST A
AGBCA AGTA CRYST B
AGGKA ACTA CRYST
                                                                                               HOLA CRYST B
ACTA CRYST
ANGEN CHEM (INTERNAT EDN)
ACTA CHEM SCAND
AMER MIN
ARK KEMI
BULL ACAD POLON SCI SER SCI CHEM
BULL SOC CHIN FR
BULL SCC FR MINER CRYSI
CANAD MINER
CUR ACAD SCI PARIS SEC C
CANAD J CHEM
CANAD J CHEM
CANAD J CHEM
CANAD J CHEM
CANAD J PHYS
CRYST STRUCT COMM
CHEN SRIPIA
FERRCELECTRICS
INDRE-CHEM
INDRE-CHEM
INDRE-CHEM
INDRE-CHEM
SOC DALTON TRANS
   ACUCA
AGGKA
                      AUIEA
             AUSAA
ALMMA
                    ARKEA
BAPUA
                       BSCFA
                       BUFCA
                       CAMIA
                      CHUCA
             GJPHA
                 CSGMC
CSKPA
FEROA
INDCA
INUGA
                    JACSA
JAPIA
JGOTO
                                                                                                       U CHEM SOC DALION TRANS.

JEHEM PHYS

U CHEM SOC J

CATALYSIS
                   JUSIA
JUSIA
                         ALTUU
                                                                                                     J INURG NUCL CHEM
U RES MAT BUREAU STAND A
U SOLIC STATE CHEM
U PHYS SOC JAPAN
KRISTALLOGRAFIYA
                         บรัพบัง
                         JIIBĂĂ
                         USSCU
UUPSA
KKISA
                           MOCHA NONAISH THEN
MRBUA MATER RES BULL
MSAHA NAMER SOC AMER SPEC PAPERS
MATER RES BULL
MATER RE
                          MRBUA
MSAMA
MATUA
                             SCOR SULLID SER A
USCOR SULLID SER A
USCOR SULLID STATE UC I
IPMA ISUNERHANS MIN PETROL HITT
IAGA LANDRO ALLGET SHEH
                                                                                                             Z NATURF, O
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ZENBA