

GESTÃO - CURRICULUM VITAE (**INVESTIGADORES**)MANAGEMENT - CURRICULUM VITAE (**RESEARCHERS**)**Consulta global do Curriculum Vitae Global Curriculum Vitae overview**

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PROCESSO DE PREENCHIMENTO FILLING PROCESS**Lista dos quadros que compõem o formulário.**

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Curriculum vitae Curriculum vitae**1. Dados pessoais
1. Personal data****Nome completo
Full name**

José António de Carvalho Paixão

BI

National identity card
7074561

**Local e data de Nascimento
Birth place and date**

Castelo Branco 19-03-1965

**Pais de nacionalidade
Nationality**

PORTUGAL

**Morada institucional
Institutional address**

Departamento de Física, Faculdade de Ciências e Tecnologia (FCTUC)
Rua Larga, Universidade de Coimbra
P-3004-516 Coimbra
PORTUGAL

Contactos**Contact data**

Telefone: 239410644
Fax: 239829158
Email: jap@pollux.fis.uc.pt
Endereço internet (url): http://algol.fis.uc.pt/jap

**2. Formação académica
2. Academic degrees**

Ano Year	Grau académico Academic degree	Instituição Institution	Classificação Classification
2003	AGREGAÇÃO	Faculdade de Ciências e Tecnologia	-
1994	DOUTORAMENTO	Faculdade de Ciências e Tecnologia	Muito bom, com distinção e louvor
1987	LICENCIATURA	Faculdade de Ciências e Tecnologia	18 valores

**3. Actividades anteriores e situação actual em termos científicos e/ou profissionais
3. Previous and current scientific and/or professional activities**

Período Period	Cargo ou categoria Position or category	Instituição Institution
9/9/1987 - 24/11/1989	Assistente Estagiário	Departamento de Física FCTUC
25/11/1989 - 13/6/1994	Assistente	Departamento de Física FCTUC
14/6/1994 - 10/2/1999	Professor Auxiliar	Departamento de Física FCTUC

11/2/1999 -20-01-2005	Professor Associado	Departamento de Física FCTUC
21-01-05-	Professor Catedrático	Departamento de Física FCTUC
1/1/1998-30/12/1999	Vice-President of Scientific Council	Physics Department, FCTUC
1/1/2002-31/12/2003	Vice-President of Scientific Council	Physics Department, FCTUC
1/1/2004-31/12/2005	President of Scientific Council	Physics Department, FCTUC
1/1/2006-	Vice-President of Scientific Council	Faculty of Sciences and Technology, University of Coimbra
8/3/2007-	Vice-President	Instituto de Investigação Interdisciplinar da Universidade de Coimbra
17/1/2007-	President	Centro de Estudos de Materiais por Difraccção de Raios-X, FCTUC

4. Área de actividade científica **4. Area of scientific activity**

Condensed Matter Physics

5. Domínio de especialização **5. Domain of specialization**

Domínio de especialização **Domain of specializations**

Hard condensed matter - electronic and magnetic properties; chemical and physical crystallography.

Actuais interesses de investigação **Present research interests**

- * Crystallography of small molecules with potential interest in non-linear optics and ferroelectrics
- * Investigation of molecular rotors and atropisomers using x-ray diffraction.
- * Investigation of the magnetic properties of rare-earth compounds using neutron diffraction and synchrotron radiation.
- * Non-collinear magnetic structures (multi-k)
- * Electronic and magnetic properties of actinides.
- * Multipolar ordering of charge and magnetic degrees of freedom.
- * Resonant x-ray scattering and magnetic x-ray scattering
- * Synchrotron radiation

Outras competências/actividades **Other skills/activities**

- * Ab-initio calculations (using both Hartree-Fock and DFT methods)

6. Experiência na orientação **6. Supervising experience**

Pedro Sidónio Pereira da Silva, Bsc Physics Engineering (1995)
 Maria de Fátima Loureiro, Bsc Physics Engineering (1995)
 Francisco Villasboas Nascimento, Bsc Physics (1999)
 Pedro Sidónio Pereira da Silva, Msc Physics (2000)
 Vítor Hugo Nascimento Rodrigues, Msc Physics (2002)
 Bruno Rodrigues, Msc Physics Education (2004)
 João Costa, Msc Physics Education (on going)
 Vítor Hugo Nascimento Rodrigues, PhD Physics (on going)

7. Participação em projectos

7. Participation in research projects

PRAXIS/3/3.1/FIS/29/94 "Intermetallic magnetic materials" (member)

PBIC/FIS/2213/95 "Study by X-rays and neutrons of the magnetism of f-d intermetallic compounds" (coordinator)

B-2/98 (FCT/British Council) "Long wavelength incommensurate magnetism in transition metal alloys" (member)

POCTI/33495/QUI/00 "Atropisomerism and molecular rotors: correlation between the structure and physical properties" (coordinator)

POCTI/36137/QUI/00 "Synthesis of heterocyclic compounds with potential biological activity" (member)

POCTI/33818/FCB/00 "Antineoplastic agents: synthesis and structural studies of cephalostatines and potential aromatase inhibitors" (member)

LTP ESRF-HE818 "Synchrotron studies of transuranium materials" (member)

LTP ESRF-HE1386 "Synchrotron magnetic scattering from actinide materials" (member)

POCTI/FIS/57876/2004 - Structural and magnetic study of low-dimensional coordination compounds (member)

POCTI/FIS/58309/2004 - First principles and X-ray studies of the charge density and optical properties of octupolar molecules (member)

REEQ/110/FIS/2005 – Upgrade of the single-crystal X-ray Diffraction Equipment of CEMDRX (member)

8. Prémios e Distinções

8. Prizes and awards

Ano Year	Nome do Prémio ou Distinção Name of the prize or award	Nome da entidade promotora Name of the granting entity
2004	Estímulo à Excelência	Fundação para a Ciência e Tecnologia

9. Publicações

9. Publications

Artigos em revistas de circulação internacional com arbitragem científica / Papers in international scientific periodicals with referees

de Almeida MJM, Costa MMR, Paixao JA,
Charge-density of FeF₂
ACTA CRYSTALLOGR B 45: 549-555 1989

Beja AM, Paixao JA, GIL JM, et al.
Two allotropic forms of trans-dichlorobis(creatinine)platinum(II) dihydrate
ACTA CRYSTALLOGR C 47: 2333-2336 1991

Paixao JA, Lander GH, Brown PJ, et al.,
Magnetization density in URhAl - evidence for hybridisation effects,
J PHYS-CONDENS MAT 4 (3): 829-846 1992

Booth JG, Costa MMR, RodriguezCarvajal J, et al.
Magnetic phase-diagram of the dilute Cr-Ge system
J MAGN MAGN MATER 104: 735-736 1992

MARGARIDA M, COSTA R, DEALMEIDA MJBM, et al.
Weak reflections in the Laves phase FeBe₂
Z NATURFORSCH A 48 (1-2): 47-50 1993

PAIXAO JA, LANDER GH, TANG CC, et al.
Magnetization, neutron, and resonant X-ray-diffraction studies of U_{0.85}Th_{0.15}Sb
PHYS REV B 47 (14): 8634-8645 1993

COSTA MMR, PAIXAO JA, DEALMEIDA MJM, et al.
Charge densities of two rutile structures - NiF₂ and CoF₂
ACTA CRYSTALLOGR B 49: 591-599 1993

PAOLASINI L, PAIXAO JA, LANDER GH, et al.
Magnetization density in heavy-fermion UPd2Al3
J PHYS-CONDENS MAT 5 (47): 8905-8910 1993

PAIXAO JA, LANDER GH, DELAPALME A, et al.
Evidence for anisotropic hybridisation in uranium compounds
EUROPHYS LETT 24 (7): 607-611 1993

PAIXAO JA, DELAPALME A, PAULUS W, et al.
Structure of URuAl by single-crystal neutron-diffraction at 120 K
Z KRISTALLOGR 209 (7): 594-596 1994

PAOLASINI L, PAIXAO JA, LANDER GH, et al.
Field dependence of magnetic structure of UPd2Al3 in the normal state
PHYS REV B 49 (10): 7072-7075 1994

PAIXAO JA, REBIZANT J, BLAISE A, et al.
Magnetism of a new U-Sb phase - U5Sb4
PHYSICA B 203 (1-2): 137-146 1994

DEMATOSGOMES E, BEJA AM, PAIXAO JA, et al.
Synthesis, structure and thermal behavior of benzyltrimethylammonium trihydrogen selenite
Z KRISTALLOGR 210 (12): 929-933 1995

Andrade LCR, Paixao JA, deAlmeida MJ, et al.
3 beta,4 beta-epoxy-5 beta-androstan-17-one
ACTA CRYSTALLOGR C 53: 938-940 Part 7 JUL 15 1997

Paixao JA, Langridge S, Sorensen SA, et al.
Unusual magnetic interactions in compounds with the ThMn12 structure
PHYSICA B 234: 614-616 JUN 1997

Paixao JA, Lebech B, Goncalves AP, et al.
Magnetic sublattice interactions in UFe4Al8
PHYS REV B 55 (21): 14370-14377 JUN 1 1997

Beja AM, Paixao JA, Silva MR, et al.
2,4-Dibromo-5-hydroxybenzaldehyde
ACTA CRYSTALLOGR C 53: 494-496 Part 4 APR 15 1997

Paixao JA, Silva MR, deAlmeida MJ, et al.
3 alpha,4 alpha-epoxy-5 alpha-androstan-17-one
ACTA CRYSTALLOGR C 53: 347-349 Part 3 MAR 15 1997

Silva MR, Paixao JA, deAlmeida MJM, et al.
3 beta,4 alpha-dihydroxy-5 beta-androstan-17-one (vol C52, pg 2892, 1996)
ACTA CRYSTALLOGR C 53: 394-394 Part 3 MAR 15 1997

Pereira LCJ, Paixao JA, Estrela P, et al.
A single-crystal magnetization and neutron scattering investigation of the magnetic structure of U2Rh2Sn
J PHYS-CONDENS MAT 8 (50): 11167-11179 DEC 9 1996

Silva MR, Paixao JA, DeAlmeida MJM, et al.
3 beta,4 alpha-dihydroxy-5 beta-androstan-17-one
ACTA CRYSTALLOGR C 52: 2892-2894 Part 11 NOV 15 1996

Silva MR, Paixao JA, Beja AM, et al.
A new allotropic form of trans-dichlorobis(creatinine)platinum(II) dihydrate
ACTA CRYSTALLOGR C 52: 2450-2452 Part 10 OCT 15 1996

Goncalves AP, Almeida M, Amaro A, et al.
A new magnetic intermetallic compound: UFe6Ga6
J MAGN MAGN MATER 158: 692-693 MAY 1996

Paixao JA, Beja AM, Silva MR, et al.
Potassium 3-formyl-2,4-dinitrophenolate dihydrate
ACTA CRYSTALLOGR C 54: 618-621 Part 5 MAY 15 1998

Paixao JA, Waerenborgh JC, Rogalski MS, et al.
Magnetization density in UFe10Si2
J PHYS-CONDENS MAT 10 (18): 4071-4079 MAY 11 1998

Paixao JA, Silva PSP, Beja AM, et al.
Crystal structure of N,N'-diphenylguanidinium perchlorate, (C13H14N3)(ClO4)
Z KRIST-NEW CRYST ST 213 (2): 419-420 1998

Beja AM, Paixao JA, Silva MR, et al.
(2R,3R)-2,3-dibenzoyloxy-1,4-bis(diphenylphosphino)butane
ACTA CRYSTALLOGR C 54: 264-266 Part 2 FEB 15 1998

Paixao JA, Andrade LCR, de Almeida MJ, et al.
3 alpha,4 beta-dihydroxy-5 alpha-androstan-17-one
ACTA CRYSTALLOGR C 54: 89-91 Part 1 JAN 15 1998

Paixao JA, Andrade LCR, de Almeida MJ, et al.
4-hydroxy-17a-oxa-17a-homoandrost-4-ene-3,17-dione
ACTA CRYSTALLOGR C 54: 92-93 Part 1 JAN 15 1998

da Silva LJT, Melo MLSE, Neves ASC, et al.
Expedient synthesis of lactone analogues of formestane as new potential aromatase inhibitors
J CHEM SOC PERK T 1 (23): 3487-3489 DEC 7 1997

Fausto R, Matos-Beja A, Paixao JA
Molecular structure and charge density analysis of p-methoxybenzoic acid (anisic acid)
J MOL STRUCT 435 (3): 207-218 DEC 1 1997

Paixao JA, Beja AM, Silva MR, et al.
Crystal structure of betaine dihydrogen selenite, C₅H₁₃NO₅Se
Z KRIST-NEW CRYST ST 212 (1): 51-52 1997

Paixao JA, Beja AM, Silva MR, et al.
N,N'-diphenylguanidinium hydrogen-selenite monohydrate
ACTA CRYSTALLOGR C 53: 1113-1115 Part 8 AUG 15 1997

Paixao JA, Robinson RA, Lander GH, et al.
Magnetic site susceptibilities in UPdSn
J PHYS-CONDENS MAT 11 (9): 2127-2138 MAR 8 1999

Langridge S, Paixao JA, Bernhoeft N, et al.
Changes in 5d band polarization in rare-earth compounds
PHYS REV LETT 82 (10): 2187-2190 MAR 8 1999

Andrade LCR, Costa MMR, Paixao JA, et al.
Crystal structure of betaine potassium iodide dihydrate, (C₅H₁₁NO₂)(₂)KI center dot 2H(₂)O
Z KRIST-NEW CRYST ST 214 (1): 83-84 1999

Paixao JA, Beja AM, Silva MR, et al.
Crystal structure of anilinium perchlorate, C₆H₅NH₃+ClO₄⁻
Z KRIST-NEW CRYST ST 214 (1): 85-86 1999

Beja AM, Paixao JA, Silva MR, et al.
Crystal structure of 2,4,6-tribromo-5-hydroxybenzaldehyde, C₇H₃Br₃O₂
Z KRIST-NEW CRYST ST 213 (1): 139-140 1998

Paixao JA, Silva PSP, Beja AM, et al.
1,3-diphenylguanidinium trifluoroacetate
ACTA CRYSTALLOGR C 54: 1484-1486 Part 10 OCT 15 1998

Goncalves AP, Estrela P, Waerenborgh JC, et al.
Crystallographic and magnetic properties of UFe₅.8Al_{6.2} single crystals
J MAGN MAGN MATER 189 (3): 283-292 NOV 1998

Beja AM, Paixao JA, Silva MR, et al.
Methyl 2-(2-methoxyphenyl)-2,3,3a,4,6,6a-hexahydro-1H-thieno[3,4-b]pyrrole-6a-carboxylate
ACTA CRYSTALLOGR C 54: 803-805 Part 6 JUN 15 1998

Paixao JA, Silva PSP, Beja AM, et al.
N,N'-diphenylguanidinium nitrate
ACTA CRYSTALLOGR C 54: 805-808 Part 6 JUN 15 1998

Beja AM, Paixao JA, Silva MR, et al.
Crystal structure of bis(N,N'-diphenylguanidinium) sulfate monohydrate, (C₁₃H₁₄N₃)(₂)SO₄
center dot H₂O
Z KRIST-NEW CRYST ST 213 (3): 655-657 1998

Silva MR, Beja AM, Paixao JA, et al.
(R)-Spiro[(2R)-N-acetyl-2-phenyl-1,3-thiazolidine-4,3'-(3a' R,6a' S)-5',6a'-dimethyl-3a'
'-6a'-dihydro-3H-furo[2,3-b]furan-2-one]
ACTA CRYSTALLOGR C 55: 1094-1096 Part 7 JUL 15 1999

Silva PSP, Paixao JA, Beja AM, et al.
N,N'-Diphenylguanidinium dihydrogen phosphate
ACTA CRYSTALLOGR C 55: 1096-1099 Part 7 JUL 15 1999

Andrade LCR, Paixao JA, de Almeida MJ, et al.
17-oxo-17a-oxa-17a-homo-5 alpha-androstan-3 alpha,4 beta-diyl diacetate
ACTA CRYSTALLOGR C 55: 1186-1188 Part 7 JUL 15 1999

Silva MR, Paixao JA, Beja AM, et al.
Crystal structure of L-argininium diphenylacetate, C₆H₁₅N₄O₂+C₁₄H₁₁O₂⁻

Z KRIST-NEW CRYST ST 214 (3): 326-328 1999

Melo TMVDP, Barbosa DM, Ramos PJRS, et al.
Intramolecular dipolar cycloaddition reaction of 5H,7H-thiazolo[3,4-c]oxazol-4-ium-1-olates:
synthesis of chiral 1H-pyrrolo[1,2-c]thiazole derivatives (vol 1, pg 1219, 1999)
J CHEM SOC PERK T 1 (13): 1897-1897 JUL 7 1999

Paixao JA, Beja AM, Silva PSP, et al.
A new orthorhombic phase of N,N'-diphenylguanidine
ACTA CRYSTALLOGR C 55: 1037-1040 Part 6 JUN 15 1999

Melo TMVDPE, Barbosa DM, Ramos PJRS, et al.
Intramolecular dipolar cycloaddition reaction of 5H,7H-thiazolo[3,4-c]oxazol-4-ium-1-olates:
synthesis of chiral 1H-pyrrolo[1,2-c]thiazole derivatives
J CHEM SOC PERK T 1 (9): 1219-1223 MAY 7 1999

Andrade LCR, Paixao JA, de Almeida MJ, et al.
3,17-Dioxo-4-oxaandrostane-5 alpha-carbaldehyde
ACTA CRYSTALLOGR C 55: 637-639 Part 4 APR 15 1999

Beja AM, Paixao JA, Silva MR, et al.
Crystal structure of 5,10,15,20-tetrakis(4-methoxyphenyl)porphyrin-water-methanol (1/2/2),
C48H38N4O4 center dot 2CH(3)OH center dot 2H(2)O
Z KRIST-NEW CRYST ST 214 (2): 253-254 1999

Paixao JA, Pereira LCJ, Estrela P, et al.
Magnetization density distribution in U2Co2Sn
J PHYS-CONDENS MAT 11 (9): 2115-2125 MAR 8 1999

Paixao JA, Silva MR, Sorensen SA, et al.
Neutron-scattering study of the magnetic structure of DyFe4Al8 and HoFe4Al8
PHYS REV B 61 (9): 6176-6188 MAR 1 2000

Silva MR, Paixao JA, Beja AM, et al.
Very short F-H center dot center dot center dot F hydrogen bond in L-argininium fluoride
hydrogen fluoride
ACTA CRYSTALLOGR C 56: 104-106 Part 1 JAN 2000

Silva MR, Beja AM, Paixao JA, et al.
L-Argininium tris(acetato-O,O')dioxouranium(III)-acetic acid-water (1/1/1)
ACTA CRYSTALLOGR C 55: 2039-2041 Part 12 DEC 15 1999

Andrade LCR, Paixao JA, de Almeida MJ, et al.
3 alpha-Hydroxy-5 alpha-androstane-4,17-dione
ACTA CRYSTALLOGR C 55: 2149-2151 Part 12 DEC 15 1999

Paixao JA, Beja AM, Silva MR, et al.
Crystal structure of N,N'-diphenylguanidinium formate, C14H15N3O2
Z KRIST-NEW CRYST ST 214 (4): 475-476 1999

Silva MR, Beja AM, Paixao JA, et al.
Crystal structure of betainium hexafluorotantalum(IV) dihydrate, (C5H12NO2)(2)TaF6 center
dot 2H(2)O
Z KRIST-NEW CRYST ST 214 (4): 477-478 1999

Andrade LCR, Costa MMR, Paixao JA, et al.
Crystal structure of glycinium arsenate, C2NH8O2+AsO4-
Z KRIST-NEW CRYST ST 214 (4): 535-536 1999

Melo TMVDPE, Cabral AMTPV, Gonsalves AMDR, et al.
A new route to cross-conjugated bis(enamines) and an unusual reaction with DDQ
J ORG CHEM 64 (19): 7229-7232 SEP 17 1999

Paixao JA, Silva PSP, Beja AM, et al.
N,N'-diphenylguanidinium hydrogen (+)-L-tartrate monohydrate
ACTA CRYSTALLOGR C 55: 1287-1290 Part 8 AUG 15 1999

Paixao JA, Beja AM, Silva MR, et al.
Bis(N,N'-diphenylguanidinium) oxalate
ACTA CRYSTALLOGR C 55: 1290-1292 Part 8 AUG 15 1999

Beja AM, Paixao JA, Silva MR, et al.
Crystal structure of betainium perchlorate hydrate, [(CH3)(3)NCH2COOH]ClO4 center dot H2O
Z KRIST-NEW CRYST ST 215 (4): 581-582 2000

Paixao JA, Beja AM, Silva MR, et al.
Two anilinium salts: anilinium hydrogenphosphite and anilinium hydrogenoxalate hemihydrate
ACTA CRYSTALLOGR C 56: 1132-1135 Part 9 SEP 2000

Silva MR, Beja AM, Paixao JA, et al.
C-H center dot center dot center dot pi interactions in 9-(n-do-decylaminomethyl)anthracene
ACTA CRYSTALLOGR C 56: 1136-1138 Part 9 SEP 2000

Mannix D, Coad S, Lander GH, et al.
Neutron and synchrotron diffraction study of UPTGe
PHYS REV B 62 (6): 3801-3810 AUG 1 2000

Rodrigues VH, Paixao JA, Costa MMRR, et al.
Sarcosinium trifluoroacetate
ACTA CRYSTALLOGR C 56: 1053-1055 Part 8 AUG 2000

Paixao JA, Beja AM, Silva MR, et al.
Crystal structure of diphenylguanidinium dihydrogenphosphite-phosphoric acid-water (2/1/1),
2[(C13N3H14)(H2PO3) center dot H3PO3 center dot H2O
Z KRIST-NEW CRYST ST 215 (3): 352-354 2000

Melo TMVDPE, Soares MIL, Barbosa DM, et al.
Intermolecular dipolar cycloaddition reactions of 5H,7H-thiazolo[3,4-c]oxazol-4-ium-1-olates
TETRAHEDRON 56 (21): 3419-3424 MAY 19 2000

Paixao JA, Nascimento FV, Beja AM, et al.
Sodium diphenylacetate, an infinite columnar structure
ACTA CRYSTALLOGR C 56: 168-170 Part 2 FEB 2000

Beja AM, Paixao JA, Silva MR, et al.
2-Bromo-5-hydroxybenzaldehyde
ACTA CRYSTALLOGR C 56: 354-355 Part 3 MAR 2000

Silva MR, Beja AM, Paixao JA, et al.
Crystal structure of L-argininium hexafluorovanadate trihydrate, (C6H15N4O2)(3)VF6 center dot
3H(2)O
Z KRIST-NEW CRYST ST 215 (1): 178-180 2000

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Silva MR, Paixao JA, Beja AMM, et al.
Dichlorobis(glycocyanine-O)-copper(II)
ACTA CRYSTALLOGR C 57: 7-8 Part 1 JAN 2001

Silva MR, Paixao JA, Beja AM, et al.
Conformational flexibility of tricine as a chelating agent in
catena-poly[[[tricinato)copper(II)]-mu-chloro]
ACTA CRYSTALLOGR C 57: 9-11 Part 1 JAN 2001

Rodrigues VH, Paixao JA, Costa MMRR, et al.
Betaine betainium hydrogen oxalate
ACTA CRYSTALLOGR C 57: 213-215 Part 2 FEB 2001

Paixao JA, Silva MR, Waerenborgh JC, et al.
Magnetic structures of MFe4+delta Al8-delta (M = Lu, Y)
PHYS REV B 63 (5): Art. No. 054410 FEB 1 2001

Silva MR, Paixao JA, Beja AM, et al.
F-H center dot center dot center dot F hydrogen bond in diphenylguanidinium hydrogen
bifluoride
J FLUORINE CHEM 107 (1): 117-120 JAN 2001

Paixao JA, Beja AM, Silva MR, et al.
2,4-Dibromo-3-methoxy-6-nitrobenz-aldehyde: effect of substituents on ring geometry
ACTA CRYSTALLOGR C 56: 1501-1502 Part 12 DEC 2000

Silva MR, Beja AM, Paixao JA, et al.
Benzyl 5-carboxy-4-ethyl-3-methylpyrrole-2-carboxylate
ACTA CRYSTALLOGR C 56: 1263-1264 Part 10 OCT 2000

Silva MR, Beja AM, Costa BFO, et al.
Crystal structure of hydrated diphenylguanidinium hexafluoroferrate (III)
J FLUORINE CHEM 106 (1): 77-81 OCT 2000

Andrade LCR, Costa MMR, Pinto F, et al.
Crystal structure of betaine potassium bromide dihydrate, C5H11NO2 center dot KBr center dot
2H(2)O
Z KRIST-NEW CRYST ST 215 (4): 537-538 2000

Beja AM, Paixao JA, Silva MR, et al.
Crystal structure of N,N'-diphenylguanidinium acetate, C13H14N3+C2H3O2-
Z KRIST-NEW CRYST ST 215 (4): 579-580 2000

=====
Freixa Z, Pereira MM, Bayon JC, et al.
Diastereoselective hydroformylation of Delta(4)-steroids with rhodium-phosphite catalysts
TETRAHEDRON-ASYMMETR 12 (7): 1083-1087 MAY 8 2001

Andrade LCR, Costa MMR, Filipa P, et al.
Crystal structure of betaine rubidium iodide dihydrate, (C5H11NO(2))(2)RbI center dot 2H(2)O

Z KRIST-NEW CRYST ST 216 (2): 227-228 2001

Silva MR, Beja AM, Paixao JA, et al.
Crystal structure of bis(diphenylguanidinium) pentafluorovanadate, (C₁₃H₁₄N₃)(₂)VF₅
Z KRIST-NEW CRYST ST 216 (2): 261-262 2001

Silva MR, Beja AM, Paixao JA, et al.
An oxo-centred trinuclear Fe-III complex: triquaahexakis(mu(2)-betaine-O : O
)-mu(3)-oxo-triiron(III) bis(tetrachloromanganate) trichloride hexahydrate
ACTA CRYSTALLOGR C 57: 542-545 Part 5 MAY 2001

Andrade LCR, Paixao JA, de Almeida MJM, et al.
16 alpha,17 alpha-Epoxy-20-oxopregn-5-en-3 beta-yl acetate
ACTA CRYSTALLOGR C 57: 587-589 Part 5 MAY 2001

Rodrigues VH, Paixao JA, Costa MMRR, et al.
Conformation of cationic N,N-dimethylglycine in dimethylglycinium trifluoroacetate
ACTA CRYSTALLOGR C 57: 417-420 Part 4 APR 15 2001

Silva MR, Paixao JA, Beja AM, et al.
N-[tris(hydroxymethyl)methyl]glycine(tricine)
ACTA CRYSTALLOGR C 57: 421-422 Part 4 APR 15 2001

Silva MR, Paixao JA, Beja AM, et al.
Crystal structure of the nonlinear optical compound L-arginine fluoride
J CHEM CRYSTALLOGR 30 (6): 411-414 JUN 2000

Gonsalves AMDR, Serra MED, Silva MR, et al.
(R, R)-N-phenyl-3,4-bis(diphenylphosphino)pyrrolidine: an N-aryl pyrrolidine ligand for
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11. Línguas
11. Language

Língua Language	Leitura Reading	Escrita Writing	Conversaço Conversation
Inglês	Excelente	Excelente	Excelente
Francês	Excelente	Excelente	Excelente
Espanhol (Castelhano)	Excelente	Bom	Excelente

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