



## Publications, Proceedings and Patents

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## PUBLICATIONS

### 1980

**1. Mixed Valence in Small and Large Polynuclear Species with Metal-Oxygen-Metal Bridges**

Y. Jeannin, J. P. Launay, C. Sanchez, J. Livage and M. Fournier, *Nouveau Journal De Chimie-New Journal of Chemistry*, 4, 587, (1980)

**2. Electron Spin Resonance of Reduced 12-Molybdophosphate Anion and Ground State Delocalization in Mixed Valence Heteropolyanions**

J. P. Launay, M. Fournier, C. Sanchez, J. Livage and M. T. Pope, *Inorganic & Nuclear Chemistry Letters*, 16, 257, (1980)

**3. ESR Study of Lithium Incorporation by  $V_2O_5$  Single Crystals**

J. Livage, A. Pasturel, C. Sanchez and J. Vedel, *Solid State Ionics*, 1, 491, (1980)

**4. Electron Spin Resonance Study of  $V_2O_5$  Reduction in Butyllithium**

A. Pasturel, C. Sanchez and J. Livage, *Physica Status Solidi a-Applied Research*, 59, K167, (1980)

**5. Niobium Organometallic Chemistry. Part 3. Reaction of Bis-(Cyclopentadienyl)Niobium Dichloride with Tetraphosphorus Decasulphide - Electron Spin Resonance and NMR Studies of Some Niobium(IV) and Niobium(V) O,O'-Dialkyldithiophosphates**

B. Viard, J. Salapala, J. Amaudrut, J. E. Guerschais, C. Sanchez and J. Livage, *Inorganica Chimica Acta*, 39, 99, (1980)

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**6. Electron Spin Resonance of  $P_2O_5$ -Doped  $V_2O_5$  Single Crystals**

D. Ballutaud, C. Rkha, C. Sanchez and J. Livage, *Physica Status Solidi a-Applied Research*, 66, 271, (1981)

**7. Random Glass Structure and Electron Localization in Amorphous  $V_2O_5$**

M. Henry, C. Sanchez, C. Rkha and J. Livage, *Journal of Physics C-Solid State Physics*, 14, 829, (1981)

**8. Electron Spin Resonance of Undeca Tungstovanado(IV) Silicates Isomers**

C. Sanchez, M. Michaud, J. Livage and G. Herve, *Journal of Inorganic & Nuclear Chemistry*, 43, 2795, (1981)

**9. Niobium Organometallic Chemistry. Part 6. Electron-Spin Resonance Study of Bonding in Pseudo-Tetrahedral Bis(Cyclopentadienyl)Niobium-(IV) Complexes**

C. Sanchez, D. Vivien, J. Livage, J. Salapala, B. Viard and J. E. Guerschais, *Journal of the Chemical Society-Dalton Transactions*, 64, (1981)

**10.  $V^{4+}$  Brownian Motion in Splat Cooled Amorphous  $V_2O_5$  after Water Vapor Adsorption**

P. Tougne, A. P. Legrand, C. Sanchez and J. Livage, *Journal of Physics and Chemistry of Solids*, 42, 101, (1981)

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**11. Spectroscopic Study of Mixed Valence Complexes between V(IV) and V(V)**

F. Babonneau, C. Sanchez, J. Livage, J. P. Launay, M. Daoudi and Y. Jeannin, *Nouveau Journal De Chimie-New Journal of Chemistry*, 6, 353, (1982)

**12. Mixed Valence Polyvanadic Acid Gels**

N. Gharbi, C. Sanchez, J. Livage, J. Lemerle, L. Nejem and J. Lefebvre, *Inorganic Chemistry*, 21, 2758, (1982)

**13. Nucleophilic Additions to Cyclo-Octa-1,5-Diene Coordinated to Platinum(II) .Part 1. Attempts at Syn-Addition of Bifunctional Nucleophiles**

E. Mulliez, J. Soulie, J. C. Chottard, C. Sanchez and J. Guilhem, *Journal of Chemical Research-S*, 38, (1982)

**14. Free and Bound Polarons in Vanadium Pentoxide**

C. Sanchez, M. Henry, J. C. Grenet and J. Livage, *Journal of Physics C-Solid State Physics*, 15, 7133, (1982)

**15. Mixed Valence Fluoropolytungstates**

C. Sanchez, J. Livage, P. Doppelt, F. Chauveau and J. Lefebvre, *Journal of the Chemical Society-Dalton Transactions*, 2439, (1982)

**16. Electron Delocalization in Mixed Valence Molybdenum Polyanions**

C. Sanchez, J. Livage, J. P. Launay, M. Fournier and Y. Jeannin, *Journal of the American Chemical Society*, 104, 3194, (1982)

**17. Infrared and Raman Study of Amorphous  $V_2O_5$**

C. Sanchez, J. Livage and G. Lucazeau, *Journal of Raman Spectroscopy*, 12, 68, (1982)

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**18. Low Frequency Transition between Vibronic Levels of  $(V^{2+})^{9+}$  in Crystalline  $V_2O_5$  from Electron Spin Lattice. Relaxation Measurements**

B. Gaillard, C. Blanchard, A. Deville and C. Sanchez, *Journal De Physique*, 44, 691, (1983)

**19. Square Pyramidal Complexes of Divalent-Cations of the 1<sup>st</sup> Transition Row with the 20-Tungsto-2-Arsenate(III) - Synthesis, Visible and Electron Spin Resonance Spectra**

F. Lefebvre, M. Leyrie, G. Herve, C. Sanchez and J. Livage, *Inorganica Chimica Acta*, 73, 173, (1983)

**20. Semiconducting Properties of  $V_2O_5$  Gels**

C. Sanchez, F. Babonneau, R. Morineau, J. Livage and J. Bullo, *Philosophical Magazine B-Physics of Condensed Matter Statistical Mechanics Electronic Optical and Magnetic Properties*, 47, 279, (1983)

**21. Electron Delocalization in Mixed Valence Tungsten Polyanions**

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**22. Electrical Conductivity of Amorphous  $V_2O_5$**

C. Sanchez, R. Morineau and J. Livage, *Physica Status Solidi a-Applied Research*, 76, 661, (1983)

**23. Reactivity of Hydrated Amorphous Vanadium Oxide**

M. T. Vandenberg, C. Sanchez and J. Livage, *Revue De Chimie Minerale*, 20, 850, (1983)

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**24. Electrochemical and Photochemical Reduction of Decatungstate: a Reinvestigation**

A. Chemseddine, C. Sanchez, J. Livage, J. P. Launay and M. Fournier, *Inorganic Chemistry*, 23, 2609, (1984)

**25. X-Ray, Electron Spin Resonance, and Optical Absorption Studies of Tetrakis(Cyclohexylamine)Copper(II) Nitrate: an Example of a Flattened Tetrahedral Copper(II) Complex**

J. Gouteron, S. Jeannin, Y. Jeannin, J. Livage and C. Sanchez, *Inorganic Chemistry*, 23, 3387, (1984)

**26. Small Polaron Mobility in  $\gamma-Li_xV_2O_5$**

C. Sanchez, M. Henry, R. Morineau and M. C. Leroy, *Physica Status Solidi B-Basic Research*, 122, 175, (1984)

**27. Influence of the Quenching Rate on the Properties of Amorphous  $V_2O_5$  Thin Films**

C. Sanchez, J. Livage, J. P. Audiere and A. Madi, *Journal of Non-Crystalline Solids*, 65, 285, (1984)

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- 28. *Electron Spin Resonance Study of Brownian Motion in  $V_2O_5$  Gels***  
N. Gharbi, C. Sanchez and J. Livage, *Journal de Chimie Physique et de Physico-Chimie Biologique*, 82, 755, (1985)
- 29. *Small Polarons in  $V_2O_5$  Single Crystal Doped with  $WO_3$***   
M. Henry, C. Sanchez, C. Rkha and J. Livage, *Journal of Physics C-Solid State Physics*, 18, 6589, (1985)
- 30. *Preparation, Electrical and Photoelectrochemical Properties of Mg-Doped Iron Oxide Sintered Disks***  
K. D. Sieber, C. Sanchez, J. E. Turner and G. A. Somorjai, *Materials Research Bulletin*, 20, 153, (1985)
- 31. *Preparation, Characterization and Photoelectronic Properties of Ge-Substituted  $Fe_2O_3$  Single Crystals***  
K. D. Sieber, C. Sanchez, J. E. Turner and G. A. Somorjai, *Journal of the Chemical Society-Faraday Transactions 1*, 81, 1263, (1985)
- 32. *Structure and Properties of Reduced Amorphous Vanadium Oxide  $V_2O_5$***   
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- 33. *ENDOR Study of a One-Electron 2:18 Reduced Fluoropolytungstate***  
D. Gourier, P. Doppelt and C. Sanchez, *Inorganic Chemistry*, 25, 4462, (1986)
- 34. *Photochemical Hydrogen Production from a Water-Methanol Mixture with Small Particles of Iron Oxide Suspensions***  
H. Nakanishi, C. Sanchez, M. Hendewerk and G. A. Somorjai, *Materials Research Bulletin*, 21, 137, (1986)
- 35. *Synthesis, Bulk, and Surface Characterization of Nb-Doped  $Fe_2O_3$  Single Crystals***  
C. Sanchez, M. Hendewerk, K. D. Sieber and G. A. Somorjai, *Journal of Solid State Chemistry*, 61, 47, (1986)

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- 36. *Hydrolysis of Titanium Alkoxides: Modification of the Molecular Precursor by Acetic Acid***  
S. Doeuff, M. Henry, C. Sanchez and J. Livage, *Journal of Non-Crystalline Solids*, 89, 206, (1987)
- 37. *The Gel Route to  $Cr^{3+}$ -Doped  $TiO_2$ , an Electron Spin Resonance Study***  
S. Doeuff, M. Henry, C. Sanchez and J. Livage, *Journal of Non-Crystalline Solids*, 89, 84, (1987)
- 38. *Vanadium Incorporation in Silica Glasses***  
E. Fritsch, F. Babonneau, C. Sanchez and G. Calas, *Journal of Non-Crystalline Solids*, 92, 282, (1987)
- 39. *Electrical Conductivity of  $V_2O_5$  and  $Li_xV_2O_5$  Amorphous Thin Films***  
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- 40. *XANES and EXAFS Study of Titanium Alkoxides***  
F. Babonneau, S. Doeuff, A. Leautic, C. Sanchez, C. Cartier and M. Verdagner, *Inorganic Chemistry*, 27, 3166, (1988)
- 41. *Spectroscopic Characterization of Sol-Gel Processing***  
F. Babonneau, C. Sanchez and J. Livage, *Journal of Non-Crystalline Solids*, 106, 170, (1988)

**42. Sol-Gel Chemistry of Transition Metal Oxides**

J. Livage, M. Henry and C. Sanchez, *Progress in Solid State Chemistry*, 18, 259, (1988)

**43. Electrochemical Properties of Amorphous  $V_2O_5$**

M. Nabavi, C. Sanchez, F. Taulelle, J. Livage and A. Deguibert, *Solid State Ionics*, 28, 1183, (1988)

**44. Chemical Modification of Alkoxide Precursors**

C. Sanchez, J. Livage, M. Henry and F. Babonneau, *Journal of Non-Crystalline Solids*, 100, 65, (1988)

**45. The Photoelectrochemistry of Nb-Doped  $\alpha\text{-Fe}_2\text{O}_3$**

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F. Taulelle, C. Sanchez, J. Livage, A. Lachgar and Y. Piffard, *Journal of Physics and Chemistry of Solids*, 49, 299, (1988)

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**47. Synthesis and Structural Study of the Titanium Acetate Isopropoxide Oxide  $[\text{Ti}_6(\mu_3\text{-O})_2(\mu_2\text{-O})_2(\mu_2\text{-OAc})_4(\mu_2\text{-O}^i\text{Pr})_6(\text{O}^i\text{Pr})_6]$ , a Reference Compound for the Sol-Gel Process**

S. Doeuff, Y. Dromzee and C. Sanchez, *Comptes Rendus De L' Academie Des Sciences Serie II*, 308, 1409, (1989)

**48. Synthesis and Solid- and Liquid-State Characterization of a Hexameric Cluster of Titanium(IV):  $\text{Ti}_6(\mu_2\text{-O})_2(\mu_3\text{-O})_2(\mu_2\text{-OC}_4\text{H}_9)_2(\text{OC}_4\text{H}_9)_6(\text{OCOCH}_3)_8$**

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**49. Electrochromic Properties of Anatase  $\text{TiO}_2$  Films Prepared by the Sol-Gel Process**

S. Doeuff and C. Sanchez, *Comptes Rendus De L' Academie Des Sciences Serie II*, 309, 531, (1989)

**50. Photoelectrochemical Properties of  $\text{TiO}_2$  Anatase Films Synthesized via the Sol-Gel Process**

S. Doeuff and C. Sanchez, *Comptes Rendus De L' Academie Des Sciences Serie II*, 309, 1137, (1989)

**51. The Chemistry of the Sol-Gel Process**

J. Livage, C. Sanchez, M. Henry and S. Doeuff, *Solid State Ionics*, 32-3, 633, (1989)

**52. Sol-Gel Synthesis of Electrochromic Films**

M. Nabavi, S. Doeuff, C. Sanchez and J. Livage, *Materials Science and Engineering B*, 3, 203, (1989)

**53. Some Illustrations of the Use of Synchrotron Radiation to Characterize the Sol-Gel Process**

C. Sanchez, M. Nabavi, P. Judeinstein and S. Doeuff, *Journal de Chimie Physique et de Physico-Chimie Biologique*, 86, 1593, (1989)

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**54. An ESR Study of Cr(III) in Zirconia Prepared by the Sol-Gel Process**

J. Bennour, N. Gharbi, H. Zarrouk, C. Sanchez and M. Henry, *Annales De Chimie-Science Des Materiaux*, 15, 19, (1990)

**55. Sol-Gel Synthesis and Characterization of Titanium Oxo-Acetate Polymers**

S. Doeuff, M. Henry and C. Sanchez, *Materials Research Bulletin*, 25, 1519, (1990)

**56. Optical Properties of  $\text{TiO}_2$ ,  $\text{ZrO}_2$ ,  $\text{Al}_2\text{O}_3$  and  $\text{SiO}_2$  Based Gels Doped with Rhodamine 640**

J. Fitremann, S. Doeuff and C. Sanchez, *Annales De Chimie-Science Des Materiaux*, 15, 421, (1990)

**57. Sol-Gel Synthesis of PFN Ceramics ( $\text{PbFe}_{1/2}\text{NB}_{1/2}\text{O}_3$ )**

P. Griesmar, G. Papin, C. Sanchez and J. Livage, *Journal of Materials Science Letters*, 9, 1288, (1990)

**58. Chemical Synthesis of Fine Powders**

J. Livage, M. Henry, J.-P. Jolivet and C. Sanchez, *MRS Bulletin*, 15, 18, (1990)

**59. The Sol-Gel Route to Molybdenum Oxides**

J. Mendez-Vivar, A. Campero, J. Livage and C. Sanchez, *Journal of Non-Crystalline Solids*, 121, 26, (1990)

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**61. Chemical Modification of Metal Alkoxides by Solvents: a Way to Control Sol-Gel Chemistry**

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M. Nabavi and C. Sanchez, *Comptes Rendus De L' Academie Des Sciences Serie II*, 310, 117, (1990)

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C. Sanchez and J. Livage, *New Journal of Chemistry*, 14, 513, (1990)

**65. Synthesis and Structural Study of the Compound  $Zr_4(\mu_4-O)(\mu_2-O^a Pr)_6(O^b Pr)_4(acac)_4$**

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**69. Sol-Gel Route to Niobium Pentoxide**

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**70. Second-Harmonic Generation from Organic Molecules Incorporated in Sol-Gel Matrices**

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**80. Sol-Gel Synthesis of Siloxane Oxide Hybrid Coatings ( $Si(CH_3)_2O-MO_x$ ;  $M = Si, Ti, Zr, Al$ ) with Luminescent Properties**

S. Dire, F. Babonneau, C. Sanchez and J. Livage, *Journal of Materials Chemistry*, 2, 239, (1992)

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**89. Electrochemical Probing of the Activity of Glucose Oxidase Embedded Sol-Gel Matrices**

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B. Pommellec, R. Cortes, C. Sanchez, J. Berthon and C. Fretigny, *Journal of Physics and Chemistry of Solids*, 54, 751, (1993)

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S. Barboux-Doeuff and C. Sanchez, *Materials Research Bulletin*, 29, 1, (1994)

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A. Bleuzen, S. Barboux-Doeuff, P. Flaud and C. Sanchez, *Materials Research Bulletin*, 29, 1223, (1994)

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- 106. Hydrolysis of Monobutyltin Trialkoxides: Synthesis and Characterizations of  $\{(BuSn)_2O_2(OH)_6\}_n(OH)_2$**   
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- 107. Investigation on Hydrolysis-Condensation Reactions of Titanium(IV) Butoxide**  
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**3. Sols ou Gels de Polymères Mixtes Organiques et Inorganiques, leur Procédé de Préparation et leur Application comme Matériaux Polymères Chargés**

M. In, C. Sanchez and J.-C. Daniel, *Rhône-Poulenc Chimie*, FR2681602, (1993)

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J. Mondet, F. X. Quinn and C. Sanchez, *L'Oréal*, EP0971685; WO/1998/044906, (1998)

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H. Samain, I. Rollat, V. Jeanne Rose and C. Sanchez, *L'Oréal*, FR2783164; EP1216018; WO/2001/022925, (2000)

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**12. Procédé pour Améliorer la Stabilité, vis à vis du rayonnement UV, de Filtres Solaires Photosensibles / Method for Improving UV Radiation Stability of Photosensitive Sunscreen Filters**

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**13. Matériau Comprenant un Filtre UV-A Organique et Procédé de Déplacement de la Longueur d'Onde d'Absorption Maximale / Material Comprising an Organic UV-A Filter and Method for Displacing the Maximum Absorption Wavelength**

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K. Valle, P. Belleville and C. Sanchez, *Commissariat à l'Energie Atomique - CEA*, FR2850300; EP1587876; WO/2004/067640, (2004)

**17. Matériau Hybride Organique-Inorganique Comprenant une Phase Minérale Mésoporeuse et une Phase Organique, Membrane et Pile à Combustible / Organic-Inorganic Hybrid Material Containing a Mineral Mesoporous Phase and an Organic Phase, a Membrane and Fuel Cell**

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P. Belleville, C. Sanchez, P. Buvat and P. Prene, *Commissariat à l'Energie Atomique - CEA*, FR2862429; EP1704607; WO/2005/050752; , (2005)

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**21. Solides Inorganiques, notamment Poreux, en particulier Mesoporeux, Modifiés par des Molécules Organiques Chélatant des Métaux de Transition, leur Préparation et leur Utilisation comme Catalyseurs / Inorganic Solids, such as Porous and particularly Mesoporous Inorganic Solids, which are Modified by Transition Metal-Chelating Organic Molecules, Preparation Method thereof and Use of same as Catalysts**

F. Goettmann, D. Lefevre, C. Sanchez, F. Mathey, P. Le Floch and C. Jacquiod, *Saint-Gobain Recherche*, FR2865664; WO/2005/075074, (2005)

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R. Backov, C. Sanchez, H. Deleuze and S. Ungureanu, *Université Pierre et Marie Curie - UPMC*, FR2912400; WO/2008/129151, (2008)

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- 30. Revêtements Mésostructurés pour Application en Aéronautique et Aérospatiale / Mesostructured Skins for Application in the Aeronautics and Aerospace Industries**  
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- 32. Matériau Cristallisé à Porosité Hiérarchisée et Comprenant du Silicium / Crystallised Materials with Hierarchised Porosity and Containing Silicon**  
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- 33. Matériau Amorphe à Porosité Hiérarchisée et Comprenant du Silicium / Amorphous Materials Having a Hierarchised Porosity and Comprising Silicon**  
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**40. Procédé de Préparation d'un Monolithe de Carbone ou de Céramiques Alvéolaires comportant un Réseau Poreux Hiérarchisé / Method for Preparing a Cellular Carbon Monolith comprising a Hierarchised Porous Network**  
R. Backov, N. Brun and C. Sanchez, *Université Pierre et Marie Curie - UPMC*, FR2937970; WO/2010/049650, (2010)

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