

CURRICULUM VITAE NAZZARENO RE

1. Informazioni personali

Nato ad Ascoli Piceno (AP) il 5.9.1960.

Residente a Pescara (PE) in Via M. Mantini 7, 65125.

Lingue parlate: Italiano (lingua madre), Inglese (fluente), Francese (fluente)

2. Istruzione e formazione

1978: Diploma Liceo Scientifico B. Rossetti di San Benedetto del Tronto (AP).

1978-1983: Corso di laurea in Chimica all'Università degli Studi di Perugia.

1983: Laurea in Chimica all'Università degli Studi di Perugia con il voto 110/110 e lode, discutendo una tesi dal titolo "Teorie Semiclassiche in Cinetica Chimica".

1986-1989: Corso triennale di Perfezionamento in Chimica presso la Scuola Normale Superiore di Pisa (equipollente al Dottorato di Ricerca), lavorando su una tesi dal titolo "Theoretical study of some tetradentate Schiff bases complexes of cobalt".

Novembre 1990 - aprile 1993: Borsa di studio dell'IBM presso il Dipartimento di Chimica dell'Università di Perugia, svolgendo ricerche sull'applicazione di metodi computazionali avanzati allo studio teorico di sistemi molecolari complessi.

Maggio 1993 - luglio 1994: Borsa di studio del CNR presso i laboratori del Prof. C. Floriani dell'Università di Losanna (Svizzera) per svolgere ricerche sull'interpretazione teorica del comportamento magnetico di molecole organometalliche.

3. Esperienze professionali

Novembre 1985- aprile 1986: Azienda Farmaceutica Bristol Europe SpA, Latina (LT) come chimico nel Laboratorio di Ricerca e Sviluppo.

Aprile 1989- ottobre 1990: Enichem, San Donato Milanese (MI) nei Laboratori Materiali Funzionali come responsabile di ricerche sullo sviluppo di materiali sol-gel multielemento.

Agosto 1994 – ottobre 1998: Ricercatore Universitario Università degli Studi di Perugia.

Novembre 1998 – settembre 2002: Professore II Fascia Università degli Studi "G. d'Annunzio" Chieti-Pescara

Ottobre 2002 – presente: Professore I Fascia Università degli Studi "G. d'Annunzio" Chieti-Pescara

4. Capacità e competenze gestionali

2005-2006 Coordinatore scientifico nazionale del Progetto di Rilevante Interesse Nazionale (PRIN) 2004: Fattori stereodinamici che regolano la formazione e le proprietà dei microaggregati. Unità locali coordinate delle Università di Roma Sapienza, Perugia, Palermo, Brescia, Camerino e Chieti.

2007-2008 Coordinatore scientifico nazionale del Progetto di Rilevante Interesse Nazionale (PRIN) 2006: Dalle singole molecole a complessi e nanoaggregati: struttura, chiralità, reattività e teoria. Unità locali coordinate delle Università di Roma Sapienza, Perugia, Potenza e Chieti.

2010-2012: Coordinatore scientifico nazionale del Progetto di Rilevante Interesse Nazionale (PRIN) 2009: Fotoni, radicali e molecole cariche coinvolti in sistemi di interesse nelle bio e nanotecnologie. Unità locali coordinate delle Università di Roma Sapienza, Perugia, Potenza e Chieti.

2009-2011: Presidente del Consiglio di Corso di Laurea in Farmacia per gli a.a 2009/2010 e 2010/2011.

2011-2013: Presidente del Consiglio di Corso di Laurea in Chimica e Tecnologia Farmaceutiche (CTF) per gli a.a 2011/2012 e 2012/2013.

2010-presente : Coordinatore di Facoltà/Dipartimento del progetto LLP Erasmus.

2009-2012 : Membro del Consiglio di Amministrazione dell'Ateneo G. D'Annunzio, Chieti.

2011-2012 : Presidente della Commissione Appalti di Ateneo del CdA.

2013-2015 : Presidente del Nucleo di Valutazione dell'Ateneo G. D'Annunzio, Chieti per il triennio 2013-2015.

2016- : Presidente del Nucleo di Valutazione dell'Ateneo G. D'Annunzio, Chieti per il triennio 2016-2018.

2016- : Presidente del Nucleo di Valutazione dell'Ateneo Telematico Leonardo da Vinci, Torrecchia Teatina (CH), per il triennio 2016-2018.

2013- : Componente del direttivo del Coordinamento Nazionale Nuclei di Valutazione delle Università Italiane.

2015- : Vicepresidente del direttivo del Coordinamento Nazionale Nuclei di Valutazione delle Università Italiane.

2015- : Inserito nell'Albo degli Esperti di Valutazione dell'ANVUR per il profilo di Esperti Disciplinari per la valutazione dei CdS.

2016 : Componente CEV per i CdS di nuova istituzione per l'a.a. 2016/17.

5. Qualificazione scientifica e culturale

Interessi scientifici:

Gli interessi scientifici del Prof. Nazzareno Re sono indirizzati verso la chimica inorganica teorica, ed in particolare i suoi temi di ricerca principali includono lo studio teorico dell'attivazione di piccole molecole su substrati inorganici o organometallici nella catalisi o in modelli di metalloenzimi, lo studio teorico della struttura elettronica e delle proprietà fisiche e chimiche di composti organometallici, lo studio teorico di processi su superfici di silice, fullereni e nanotubi, del comportamento magnetico di sistemi inorganici e metallorganici e lo studio teorico di complessi inorganici ed organometallici con proprietà antitumorali.

E' coautore di oltre duecento pubblicazioni scientifiche su riviste internazionali ed ha presentato i risultati delle sue ricerche in numerosi congressi internazionali.

Con un h-index=39 (ISI Web of Science) è incluso nella lista dei Top Italian Scientist della Via Academy.

E' revisore di numerose riviste scientifiche internazionali, tra le quali Journal of the American Chemical Society, Journal of Physical Chemistry A, B e C, Organometallics, Inorganic Chemistry, Dalton Transaction, Journal of Chemical Physics and Computation, Chemical Physics Letters

Dal 1999 è membro della American Chemical Society.

Attività Didattica:

Numerosa attività didattica di supporto nei Corsi di Laurea in Chimica e in Scienze Naturali presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Perugia dall'a.a. 1994/1995 all'a.a. 1997/1998.

Titolare del corso di Chimica Generale ed Inorganica del Corso di Laurea in C.T.F. della Facoltà di Farmacia dell'Università G. d'Annunzio dall'a.a. 1998/1999 all'a.a. 2015/16.

Titolare del corso di Chimica Generale ed Inorganica del Corso di Laurea in Farmacia della Facoltà di Farmacia dell'Università G. d'Annunzio negli a.a. 1998/1999, 1999/2000, 2000/2001 e 2009/2010.

Titolare del corso di Chimica Bioinorganica per i Corsi di Laurea in Farmacia e CTF della Facoltà di Farmacia dell'Università G. d'Annunzio dall'a.a. 2007/2008 all'a.a. 2015/16.

Supervisore di numerose Tesi di laurea e di Dottorato presso la Facoltà di Farmacia dell'Università G. d'Annunzio dall'a.a. 1998/99.

Membro e presidente di Commissione di numerosi Esami di Laurea nella Facoltà di Farmacia dell'Università G. d'Annunzio.

Componente del Collegio dei Docenti del Dottorato in Scienze del Farmaco dell'Università G. d'Annunzio dal XVI al XXVIII ciclo e del Collegio dei Docenti del Dottorato in Scienze Biomolecolari e Farmaceutiche dell'Università G. d'Annunzio dal XXIX al XXXII ciclo.

Membro di Commissione di diversi Esami finali di Dottorato nell'università G. d'Annunzio di Chieti-Pescara e nelle università di Roma Sapienza, Perugia, Pisa e Cosenza.

Attribuzione di incarichi di insegnamento o di ricerca (*fellowship*) ufficiale presso atenei e istituti di ricerca, esteri e internazionali, di alta qualificazione

- University of Lund (Sweden) gennaio-febbraio 1994 (Borsa di Ricerca breve CNR)
- Université de Lausanne (Suisse) aprile-luglio 1995 (Finanziamento Fond National Suisse)
- S.E.R.C.(Science and Engineering Research Center), Daresbury (UK) settembre - ottobre 1995 (Borsa di Ricerca Breve CNR)
- Université de Lausanne (Suisse) aprile-luglio 1996 (Borsa di Ricerca Fondation Herbette)
- Université de Lausanne (Suisse) novembre 1996 (Professore invitato)
- Université de Lausanne (Suisse) aprile-luglio 1997 (Borsa di Ricerca Fondation Herbette)
- Université de Paris Sud (France) aprile 1997 (Borsa di Ricerca Breve CNR)
- Université de Lausanne (Suisse) aprile-luglio 1998 (Borsa di Ricerca Fondation Herbette)

- Kumamoto University (Japan) agosto-ottobre 1998 (Finanziamento Ministero per la Ricerca del Giappone)
- Université de Lausanne (Suisse) dicembre 1998 (Professore invitato)
- Université de Lausanne (Suisse) giugno 2000 (Professore invitato)
- Kumamoto University (Japan) settembre-ottobre 2000 (Finanziamento Ministero per la Ricerca del Giappone)

- Dal 2001 ad oggi ha instaurato numerose collaborazioni scientifiche con diverse università italiane (Perugia, Firenze, Bari, Milano, Roma la Sapienza, Brescia, Palermo, Potenza, Ferrara) ed estere (Kumamoto, Giappone; Oita, Giappone; Okayama, Giappone; Paris Sud, Francia; Reims, Francia; Wroclaw, Polonia; Barcellona, Spagna; Madrid, Spagna; Aachen, Germania; Salvador, Brasile; Lund, Svezia) presso le quali ha effettuato numerose visite per motivi di ricerca ed ha tenuto diverse conferenze.

Brevetti:

1. Deposito di domanda di brevetto in Italia, titolo:"Aerogel di Silice con legami Si-H", titolare: Istituto Guido Donegani Spa, Inventori designati: G. Cerofolini and N. Re, N. Domanda MI 91 A 002744, 1991 .

Pubblicazioni:

1. R. Colle, A. Fortunelli, N. Re and O. Salvetti, "Theoretical Investigation of the Ground and a Few Excited States of the Co(Schiff Base)Li Complexes", *J. Am. Chem. Soc.*, **1988**, *110*, 8016.
2. G.F. Cerofolini, A. Foglio Para and N. Re, "(D⁺D⁺)2e⁻ Binuclear Atoms as Activated Precursors in Cold and Warm Fusion" in S.E. Jones, F. Scaramuzzi and D. Worledge Eds. Anomalous Nuclear effects In Deuterium/Solids Systems, AIP Conference Proceedings 228, Provo UT 1990, pp. 668.
3. R. Colle, A. Fortunelli, N. Re and O. Salvetti, "Theoretical Investigation of the Ground and the Lowest Excited States of Co(SB) Complexes (SB=Schiff Base)", *Inorg. Chem.*, **1991**, *30*, 2388.
4. N. Re, "Kinetics of Bicomponent Sol-gel Processes", *J. Non-Cryst. Solids*, **1992**, *142*, 1.
5. N. Re, M. Rosi, A. Sgamellotti, C. Floriani and M.F. Guest, "Ab Initio Calculations on Methane Interacting with The Fourteen-electron Ni(PH₃)₂ Fragment", *J. Chem. Soc., Dalton Trans.*, **1992**, 1821.
6. V. Aquilanti, N. Nakamura, N. Re and C. Zhu, "The two-state linear curve crossing problem revisited. I. Analysis of Stokes phenomenon and expressions for scattering matrices", *J. Chem. Phys.*, **1992**, *97*, 1892.
7. N. Re, M. Rosi, A. Sgamellotti, C. Floriani and E. Solari, "A Theoretical Study of C-H Activation by LCu⁺ and LCu²⁺ Complexes", *J. Mol. Struct. (Theochem)* **1993**, *284*, 95.

8. G.F. Cerofolini and N. Re, "The Mathematical Theory of Adsorption on Non-Ideal Surfaces", *La Rivista del Nuovo Cimento*, **1993**, *16*, 1.
9. E. Gallo, E. Solari, S. De Angelis, C. Floriani, N. Re, A. Chiesi-Villa and C. Rizzoli, "Four-centered oxotetramanganese(III) aggregate: a novel approach to redox and aggregation chemistry of manganese", *J. Am. Chem. Soc.*, **1993**, *115*, 9850.
10. G.F. Cerofolini and N. Re, "Bjerrum theory for hydrogen halides and noble-gas acids", *Gazz. Chim. Ital.*, **1993**, *123*, 653.
11. G.F. Cerofolini and N. Re, "Acid strength of XH_nH^+ ($n=0,4$) ions", *Gazz. Chim. Ital.* **1993**, *123*, 653.
12. N. Re, M. Rosi, A. Sgamellotti and C. Floriani, "Theoretical Investigations and Modelling of Complex Inorganic Systems", in *Synthesis and Methodologies in Inorganic Chemistry*, S. Daolio, M. Fabrizio, P. Guerriero, E. Tondello, P.A. Vigato, Eds. (Bressanone, Italy, 1993), vol. 3, pp. 31.
13. N. Re, M. Rosi, A. Sgamellotti, C. Floriani and E. Solari, "A Theoretical Study of Dinitrogen Activation by V(II) and V(III): Ab initio Calculations on various model Compounds", *Inorg. Chem.*, **1994**, *33*, 4390.
14. N. Re, "Generalized local isotherm approximations", *J. Colloid Interf. Sci.*, **1994**, *166*, 191.
15. N. Re, A. Sgamellotti, B.J. Persson, B.O. Roos and C. Floriani, "A Theoretical Study of the (Cyclobutane)diazadivanadium Complex" *Organometallics*, **1995**, *14*, 63.
16. A. Klose, E. Solari, C. Floriani, A. Chiesi-Villa, C. Rizzoli and N. Re, "Magnetic Properties Diagnostic for the Existence of Iron(II)-Iron(II) Bonds in Dinuclear Complexes Which Derive from Stepwise Insertion Reactions on Unsupported Iron-Aryl Bonds", *J. Am. Chem. Soc.*, **1994**, *116*, 9123.
17. G.F. Cerofolini and N. Re, "The Acid Bond", *Gazz. Chim. Ital.*, **1994**, *124*, 315.
18. N. Re, M. Rosi, A. Sgamellotti, and C. Floriani, "Theoretical Study of Dinitrogen Activation in Dinuclear V(II) and V(III) Hexacoordinated Complexes: Ab initio Calculations on Various Model Compounds", *Inorg. Chem.*, **1995**, *34*, 3410.
19. E. Solari, F. Musso, E. Gallo, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "Cationic Aryl Manganese(II) Derivatives Occurring in Ion-Pair Forms with Tetraphenylborate Anions: Synthetic, Structural, and Magnetic Studies", *Organometallics*, **1995**, *14*, 2265.
20. G.F. Cerofolini and N. Re, "Extracting the Energy Distribution Function of Heterogeneous Surfaces from Their Desorption Kinetics", *J. Colloid Interf. Sci.*, **1995**, *174*, 428.
21. H. Miyasaka, N. Matsumoto, H. Okawa, N. Re, E. Gallo, and C. Floriani, "The Two-Dimensional Network Structure and Ferromagnetic Properties of the 2:1 Complex of $[Mn(3-MeOsalen)(H_2O)]ClO_4$ and $K_3[Fe(CN)_6]$ ", *Angew. Chem.*, **1995**, *34*, 1445.
22. H. Miyasaka, N. Matsumoto, H. Okawa, N. Re, E. Gallo, and C. Floriani, "Complexes Derived from the Reaction of Manganese(III) Schiff Base Complexes and Hexacyanoferrate(III): Syntheses, Multi-dimensional Network Structures, and Magnetic Properties", *J. Am. Chem. Soc.*, **1996**, *118*, 981.
23. P. Belanzoni, N. Re, M. Rosi, A. Sgamellotti, E.J. Baerends and C. Floriani, "Theoretical Investigations on Inorganic Systems and Aggregates by Density Functional Methods", In "Syntheses and Methodologies in Inorganic Chemistry - New Compounds and Materials", S. Daolio, E. Tondello, P.A. Vigato Eds., Bressanone (Italy), 1995, Vol. 5, p. 432.
24. P. Belanzoni, N. Re, M. Rosi, A. Sgamellotti, E.J. Baerends and C. Floriani, "Electronic Structure, Heisenberg Coupling Constants and Metal-Metal bond in Dimeric Iron(II) Organometallics with the Metal Centers at Variable Distances: a Density Functional Approach", *Inorg. Chem.*, **1996**, *35*, 7776.
25. P. Belanzoni, N. Re, M. Rosi, A. Sgamellotti, and C. Floriani, "Changes in the Interaction Mode of the Bridging C_2 Units According to Transition Metal Parameters: a Theoretical Approach", *Organometallics*, **1996**, *15*, 4264.

26. G.F. Cerofolini and N. Re, "Kinetics of Desorption From Heterogeneous Surfaces", *Langmuir*, **1997**, *13*, 999.
27. E. Gallo, E. Solari, N. Re, C. Floriani, A. Chiesi-Villa, and C. Rizzoli, "Dioxygen Activation by a Manganese Complex Containing a Schiff-Base: Selective Oxidation of an Imino to an Amido Group Within the Salophen Ligand and Formation of a Hydroxy-Bridged Mn^{III}-Polymer", *Angew. Chem., Int. Ed. Engl.* **1996**, *35*, 1981.
28. E. Solari, A. Klose, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "Design and X-ray Structure of a Planar Oxo Matrix for Binding Transition Metals: the Use of 2-Hydroxyisonaphthalic Acid as a Building Block for Planar Oxo Matrices", *Polyedron*, **1996**, *15*, 4103.
29. F. Franceschi, E. Gallo, E. Solari, C. Floriani, A. Chiesi-Villa, C. Rizzoli, N. Re and A. Sgamellotti, "Synthetic Methodology Allowing the Interconversion of Titanium-Oxygen Single Bonds and Double Bonds: the Self-Assembling of Bridging and Terminal Oxotitanium(IV) into Oligomeric and Polymeric Linear Titanoxanes", *Chem. Eur. J.*, **1996**, *2*, 1466.
30. N. Re, A. Sgamellotti, and C. Floriani, "Theoretical Study of $[\{Fe(CO)_2Cp\}_3(\mu_3-C_3)]^+$ Tricarbido Cation ", *Organometallics*, **1996**, *15*, 5330.
31. N. Re, E. Gallo, and C. Floriani, H. Miyasaka, N. Matsumoto, "Anomalous Magnetic Properties of $K[Mn(3-MeOsalen)][Mn(CN)_6]$: a Metamagnet Exhibiting a Strong Negative Magnetization 3-MeOsalen=N,N'-ethylenbis(3-methoxysalicylideneiminato)", *Inorg. Chem.*, **1996**, *35*, 5694.
32. N. Re, E. Gallo, C. Floriani, H. Miyasaka and N. Matsumoto, "Magnetic Properties of One-Dimensional Ferromagnet containing a Mn(III)-CN-Fe(III) Linkage, Synthesis and Crystal Structure of a Chainlike $[Mn(acacen)][Fe(CN)_6]^{2n-}$ Polyanion", *Inorg. Chem.*, **1996**, *35*, 6004.
33. H. Miyasaka, N. Matsumoto N. Re, E. Gallo, and C. Floriani, "Synthesis, Crystal Structure and Magnetic Properties of a Ferrimagnet Layered Compound $[NEt_4]_2[Mn(5-Cl-salen)][Fe(CN)_6]$, 5-Cl salen=N,N'-ethylenebis((5-chlorosalicylidene)aminato)", *Inorg. Chem.*, **1997**, *36*, 670.
34. P. Belanzoni, S. Fantacci, N. Re, M. Rosi, A. Sgamellotti, and C. Floriani, "Oligomerization of the $PH_3Cu-C\equiv C-CuPH_3$ Acetylide toward the Formation of PH_3CuC (n=4,6,8) Metal Carbides: a Theoretical Study Based on Density Functional Theory", *Inorg. Chem.*, **1997**, *36*, 2018.
35. E. Gallo, E. Solari, N. Re, C. Floriani, A. Chiesi-Villa and C. Rizzoli, "Carbon-Carbon Bonds Functioning as Electrons Shuttles: the Generation of Electron-Rich Manganese(II)-Schiff Base Complexes and their Redox Chemistry", *J. Am. Chem. Soc.*, **1997**, *119*, 5144.
36. L. Giannini, A. Caselli, E. Solari, C. Floriani, A. Chiesi-Villa, C. Rizzoli, N. Re and A. Sgamellotti, "Organometallic Reactivity on a Calix[4]arene Oxo Surface. Synthesis and Rearrangement of Zr-C Functionalities Anchored to a Calix[4]arene Moiety", *J. Am. Chem. Soc.*, **1997**, *119*, 9198.
37. L. Giannini, A. Caselli, E. Solari, C. Floriani, A. Chiesi-Villa, C. Rizzoli, N. Re and A. Sgamellotti, "Organometallic Reactivity on a Calix[4]arene Oxo Surface. The Stepwise Migratory Insertion of Carbon Monoxide and Isocyanides into Zirconium-Carbon Bonds Anchored to a Calix[4]arene Moiety", *J. Am. Chem. Soc.*, **1997**, *119*, 9709.
38. F. De Angelis, N. Re, M. Rosi, A. Sgamellotti, and C. Floriani, "A theoretical study of acetylide complexes of early transition metals", *J. Chem. Soc., Dalton*, **1997**, 3841.
39. N. Re, A. Sgamellotti, G.F. Cerofolini and L. Meda, "Theoretical Analysis of CO₂ Adducts to the Native E'' Centre in Ion-bombarded Porous Silica", *J. Phys. Chem.*, **1997**, *101*, 9695.
40. S. Fantacci, N. Re, M. Rosi, A. Sgamellotti, M. Guest, P. Sherwood, and C. Floriani, "A theoretical study of the metathesis-like reaction between ditungsten hexaalkoxydes and alkynes", *J. Chem. Soc., Dalton Trans.*, **1997**, 3845.

41. A. Klose, E. Solari, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "Iron-carbene functionalities supported by a macrocyclic ligand: iron-carbon double bond stabilized by tetramethyldibenzotetraazaannulene", *J. Chem. Soc., Chem. Comm.*, **1997**, 2297.
42. R. Ferguson, E. Solari, C. Floriani, D. Osella, M. Ravera, N. Re, A. Chiesi-Villa, and C. Rizzoli, "The Stepwise Reduction of Dinitrogen Occurring on a Divanadium Model Compound: A Synthetic, Structural, Magnetic and Theoretical Investigation on the $[V=N=N=V]^{n+}$ $[n=4-6]$ Based Complexes", *J. Am. Chem. Soc.*, **1997**, *119*, 10104.
43. P. Belanzoni, N. Re, A. Sgamellotti, and C. Floriani, "Interaction mode of the bridging c_2 unit in dinuclear complexes of late transition metals in low oxidation states: a theoretical approach", *J. Chem. Soc., Dalton Trans.*, **1997**, 4773.
44. A. Caselli, L. Giannini, E. Solari, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "Zirconium-Butadiene Bonded over a Planar Set of Oxygens Derived from Calix[4]arene and its Behavior as a Source of Zirconium(II)", *Organometallics*, **1997**, *16*, 5457.
45. A. Zanotti-Gerosa, L. Giannini, E. Solari, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "Titanium-Carbon Functionalities on an Oxo Surface Defined by a Calix[4]arene Moiety and its Redox Chemistry", *Inorg. Chim. Acta* **1998**, *270*, 298.
46. P. Belanzoni, N. Re, A. Sgamellotti, and C. Floriani, "Electronic communication between carbon chain bridged metals: a theoretical approach. Even chains", *J. Chem. Soc., Dalton Trans.* **1998**, 1825.
47. N. Re, A. Sgamellotti, and C. Floriani, " $[(L)_nM-C_m]_x$: Hypothetical organometallic polymers with metallapolyine and metallacumulene character", *J. Chem. Soc., Dalton Trans.*, **1998**, 2521.
48. H. H. Miyasaka, H. Ieda, and N. Matsumoto N. Re, R. Crescenzi, and C. Floriani, "Assembling Bi-, Tri-, and Pentanuclear Complexes into Extended Structures Using a Desolvation Reaction: Synthesis, Structure and Magnetic Properties of Manganese(III)-Schiff-Base-Hexacyanoferrate Polymeric Compounds and Their Derived Extended Structures", *Inorg. Chem.* **1998**, *37*, 255.
49. N. Re, R. Crescenzi, C. Floriani, H. Miyasaka, and N. Matsumoto "The Synthesis and Characterization of Two Dimensional Ferromagnetic Extended Structures Containing High Spin ($S=5/2$) and Low Spin ($S=1/2$) Iron(III) Bridged by Cyanide Groups", *Inorg. Chem.* **1998**, *37*, 2717.
50. F. De Angelis, N. Re, A. Sgamellotti, A. Selloni, J. Weber, and C. Floriani, "A dynamical density functional study of CO migration in the Reppe carbonylation", *Chem. Phys. Lett.* **1998**, *291*, 57.
51. U. Piarulli, C. Floriani, N. Re, G. Gervasio and D. Viterbo, "Diacetoneglucose Complexes of Manganese(II) and Iron(II) and Their Organometallic Derivatization", *Inorg. Chem.*, **1998**, *37*, 5142.
52. H. Y. Sunatsuki, H. Shimada, M. Nakamura, F. Kai, N. Matsumoto, and N. Re, "Synthesis, Magnetic Property and Incomplete Double-Cubane Structure of Manganese(III)-Metal(II) Complexes $[Mn(MeOH)L(OH)M(bpy)]_2$: (M=Zn,Cu,Ni and Mn; $H_4L=1,2$ Bis(2-hydroxybenzamido)benzene; $bpy=2,2'$ -Bipyridine", *Inorg. Chem.*, **1998**, *37*, 5566.
53. B. Castellano, E. Solari, C. Floriani, N. Re, A. Chiesi-Villa, and C. Rizzoli, "The Chemistry of Vanadium-Carbon Bond Functionalities over an Oxo-Surface Defined by the Calix[4]arene Skeleton: The Redox Relationship between Vanadium(III) and Vanadium(IV) Assisted by Carbon-Oxygen Bond Cleavage", *Organometallics*, **1998**, *17*, 2328.
54. H. M. Mimura, T. Matsuo, N. Matsumoto, S. Takamizawa, W. Mori and N. Re, "Di- μ -phenoxobis[(N-salicylidene-N'-(2-phenylimidazol-4-ylmethylidene)1,3-propanediamino)(methanol)nickel(II)] Perchlorate and the Deprotonated Imidazolate-Bridged Cyclic-Tetranuclear Complexes: Synthesis, Property and Structure", *Bull. Chem. Soc. Jpn.*, **1998**, *71*, 1831.
55. G.F. Cerofolini, N. Re, "Chemical perspectives on growth and properties of ultrathin SiO_2 layers" E. Garfunkel et al. Eds., "Fundamental aspects of ultrathin dielectric on Si-based Devices", Kluwer Academic Publisher; Amsterdam: 1998, pp. 117.

56. N. Re, A. Sgamellotti and G.F. Cerofolini, "Theoretical Analysis of ethylene adducts to the Native E" centre in Ion-bombarded Porous Silica", *Int. J. Mass Spectr.*, **1999**, *180*, 27.
57. H. N. Matsumoto, Y. Motoda, T. Matsuo, T. Nakashima, N. Re, F. Dahan, J.-P. Tuchagues, "Proton-Dependent Monomer-Oligomer Interconversion of Copper(II) Complexes with N-(2-R-imidazol-4-ylmethylidene)-2-aminoethylpyridine (R=Methyl and Phenyl)" *Inorg. Chem.* **1999**, *38*, 1165.
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