

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name
Address
Telephone
Fax
3E-mail
6Nationality
Date of birth
Sex

FANTONI, ROBERTA

WORK EXPERIENCE

• Dates (11.06.2024 to 15.02.2025)/
Occupation or position held

• Name and address of employer

• Dates (20.04.2023 to 15.10.2023)/
Occupation or position held

• Name and address of employer

• Dates (15.07.2015 to 30.06.2022) /
Occupation or position held

• Main activities and responsibilities

• Name and address of employer
• Type of business or sector

• Dates (20.04.2010 to 30.06.2015) /
Occupation or position held

• Main activities and responsibilities

• Name and address of employer

• Dates (1/12/1998 – 19/4/2010) /
Occupation or position held

Componente di commissione esaminatrice CNR per la PROCEDURA SELETTIVA PER TITOLI E COLLOQUIO PER COMPLESSIVE N. 35 (ora 51) POSIZIONI DI DIRIGENTE TECNOLOGO I LIVELLO, AI SENSI DELL'ART. 15, COMMA 6, DEL CCNL ISTITUZIONI ED ENTI DI RICERCA E SPERIMENTAZIONE DEL 7 APRILE 2006 - BANDO 315.64 DT - SETTORE CONCORSUALE 03 GESTIONE, SUPPORTO E VALORIZZAZIONE DELLE ATTIVITÀ DI RICERCA E INNOVAZIONE NEL SETTORE DELLE SCIENZE CHIMICHE E TECNOLOGIE DEI MATERIALI.

CNR, Piazzale Aldo Moro, 7- 00185 Roma

Componente di commissione esaminatrice ENEA relativa alla procedura selettiva per titoli, per l'attribuzione di complessivi 250 posti destinati allo sviluppo professionale, ai sensi dell'art. 15 commi 5 e 6 del CCNL EPR 2002-2005, del personale dell'ENEA inquadrato nei livelli III e II, per l'Area Tematica A5

ENEA, Lungo Tevere Thaon De Revel, 76 - 00196 Roma

Responsabile della divisione FSN-TECFIS "Tecnologie Fisiche per la Sicurezza e la Salute" (responsabilità di secondo livello con circa 60 dipendenti) – **pensionamento 30.06.2022.**

Coordinamento di attività di ricerca applicata in tecnologie fisiche basate su radiazioni ionizzanti e non ionizzati, relativamente a processi e diagnostiche mediante laser e fasci di particelle per energia, industria, ambiente e beni culturali, micro e nanotecnologie e nel settore bio-medicale.

Capo progetto in progetti regionali di trasferimento tecnologico. Dirigente per la sicurezza.

ENEA, 45 V.E. Fermi, 00044 Frascati (Italia)

Agenzia governativa dedicata alla ricerca nei settori dell'energia, dell'innovazione tecnologica e dello sviluppo sostenibile

Responsabile dell'Unità tecnica UTAPRAD "Sviluppo di applicazioni di radiazioni" di ENEA. (Responsabilità di primo livello, equivalente ad un dipartimento con circa 90 dipendenti).

Coordinamento di attività di ricerca nel campo dello sviluppo di applicazioni di radiazioni, relativamente a processi e diagnostiche mediante laser e fasci di particelle accelerate (elettroni, protoni) per energia, industria, ambiente e beni culturali, micro e nanotecnologie e nel settore bio-medicale. Dirigente per la sicurezza.

ENEA, 45 V.E. Fermi, 00044 Frascati (Italia)

Responsabile della sezione FIS-SPET di ENEA che si occupava di spettroscopia ed applicazioni laser (circa 35 dipendenti), la sezione è stata successivamente chiamata **FIS-LAS**

- (da gennaio 2002) e FIM-FISLAS con i medesimi scopi e la stessa consistenza di personale. (responsabilità di secondo livello, equiparata a una divisione con 35 dipendenti)
- Main activities and responsibilities
 - Name and address of employer
 - Dates (1/06/1989 – 31/08/1989) / Occupation or position held
 - Name and address of employer
 - Main activities and responsibilities
 - Dates (1/01/1989 – 30/11/1998) / Occupation or position held
 - Name and address of employer
 - Main activities and responsibilities
 - Dates (1/7/1985 – 30/06/1986) / Occupation or position held
 - Name and address of employer
 - Main activities and responsibilities
 - Dates (12/1/1982 – 31/12/1988) / Occupation or position held
 - Name and address of employer
 - Main activities and responsibilities
 - Dates (1/1/1979 – 11/1/1982) / Occupation or position held
 - Name and address of employer
 - Main activities and responsibilities

EDUCATION AND TRAINING *

- Dates (oct. 1973-jun. 1978)
 - Name and type of organisation providing education and training
- Principal subjects/occupational skills
 - Title of qualification awarded
 - Level in national classification
- Dates (oct. 1968-jun. 1973)
 - Name and type of organisation providing education and training
- Principal subjects/occupational skills
 - Title of qualification awarded
 - Level in national classification

Studi universitari
Università di Roma "La Sapienza", Dipartimento di Chimica Fisica

Chimica, Chimica Fisica, Spettroscopia, Meccanica quantistica, Fisica, Matematica
Laurea in Chimica (corso quinquennale)
(110/110 cum laude)

Studi superiori
Liceo Scientifico Statale F. Borromini (Roma)

Materie scientifiche
Diploma di scuola superiore
59/60

* Il titolo di dottorato non è stato conseguito in quanto, questo istituto è stato attivato in Italia solo nel 1983, quando la dott.ssa. R. Fantoni aveva già una posizione permanente ad ENEA. Prima dell'attivazione del PhD, la laurea italiana, seguita da almeno 3 anni di borse di studio era considerata in tutta Europa equivalente al titolo di dottorato. Infatti la dott.ssa Fantoni ha usufruito di due borse di studio Post-Doc internazionali, una nei Paesi Bassi e l'altra in Svizzera, godute tramite congedi di studio da parte delle ENEA.

SCIENTIFIC EXPERTIZE

Sin dall'inizio attività di ricerca multidisciplinari e di progetti al confine fra le competenze di chimica e fisica (spettroscopia e processi chimici). Successivamente, sempre nel campo dell'interazione radiazione-materia, ricerche su processi di interesse applicativo più ampio, dalla biologia e medicina ai beni culturali.

Le solide competenze scientifiche e tecnologiche sono state di volta in volta utilizzate e adattate per nuove applicazioni specifiche, quali: Applicazioni laser in chimica fisica, sulla base di ricerche connesse con il progetto di separazione isotopica via laser prevalentemente riguardante processi multi-fotonici e spettroscopia ad alta risoluzione nell'infrarosso; Spettroscopia e diagnostiche laser, comprendenti la spettroscopia infrarossa mediante diodo laser, la spettroscopia laser Raman, la spettroscopia di emissione nel visibile/ultravioletto, la spettrometria per ionizzazione multifotonica, Laser Induced Fluorescence (LIF), Laser Induced Breakdown Spectroscopy (LIBS), Coherent AntiStokes Raman Scattering (CARS), Degenerate Four Wave Mixing (DFWM) e Laser Induced Grating Spectroscopy (LIGS); Applicazioni laser multidisciplinari relative alla microelettronica (deposition di film sottili), alla scienza dei materiali (sintesi di nano-strutture), all'ambiente (decomposizione di inquinanti liquidi e gassosi) e alla caratterizzazione locale e remota di superfici relative a beni culturali.

Organizzazione e partecipazione a campagne di monitoraggio marine e sui beni culturali.

Responsabile di progetti nazionali ed internazionali relativi a ricerca applicata per le diagnostiche laser in situ e remote, con sviluppo di sistemi prototipali e dimostrazioni sul campo.

Attività di coordinamento in progetti regionali di trasferimento tecnologico verso imprese e stakeholders nel settore delle tecnologie per i Beni Culturali.

Contatti internazionali con scienziati responsabili di attività di ricerca in laboratori europei di eccellenza (nel Paesi Bassi, in Svizzera, Romania, Slovenia e Spagna) ed in altri paesi (Russia, Egitto). Le attività di ricerca sono state prevalentemente finanziate attraverso progetti bilaterali di cooperazione finanziati dal Ministero degli Esteri (MAE). Le collaborazioni con Università ed EdR di Romania (INOE), Slovenia (Uni. Lubiana), Egitto (NILES Cairo) e Spagna (Uni. PO Siviglia, Uni Valencia) riguardavano diagnostiche per la conservazione di Beni Culturali.

Organizzazione e co-organizzazione di conferenze internazionali nel settore della spettroscopia laser.

EXTERNAL CHARGES

Recenti incarichi esterni di rilievo:

- Rappresentante ENEA ne Comitato di Gestione e Coordinamento dell'Associazione Centro di Eccellenza del Distretto Tecnolige per la Cultura della Regione Lazio, dal 2017 a partire dalla proposta di finanziamento del progetto per la sua costituzione, fino al 30.11.2022.. All' interno del CoE del DTC Lazio Coordinatore del progetto di trasferimento tecnologico ADAMO (Tecnologie di Analisi, DiAgnostica e MOnitoraggio per la conservazione e il restauro di beni culturali 1.10.2018 - 20.01.2020).
- Rappresentante ENEA nella Joint Research Unit (JRU) E-RHIS.it (CNR-ENEA-INFN) per la costituzione del nodo italiano di E-RHIS (European Research Infrastructure on Heritage Science) dal 11.01.2021.
- Membro dello USP (User Selection Panel) di DAFNE-Luce dal 30.10.2018.
- Valutatore di progetti per ARRS (Ministero della ricerca Sloveno) nel 2012, 2014, 2019 e 2025.
- Esperto Tecnico Scientifico del MIUR per il PON_00334 relativo al potenziamento del "CENTRO RICERCHE PER LA SALUTE DELL'UOMO E DELL'AMBIENTE" condotto dall'Università del Salento (2013-2016).

SCIENTIFIC PRODUCTION

I risultati delle attività di ricerca sono stati riportati in **187 pubblicazioni scientifiche** su riviste internazionali con impact factor e in **33 capitoli di libri**. Sono stati inoltre presentati a più di 220 conferenze internazionali e nazionali, con numerose relazioni su invito.

Vincitrice di 2 premi per le pubblicazioni scientifiche.

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIANO

OTHER LANGUAGES

Inglese

eccellente

eccellente

eccellente

Francese

buono

elementare

elementare

- Reading skills
- Writing skills
- Verbal skills

- Reading skills
- Writing skills
- Verbal skills

SOCIAL SKILLS

AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

- Corso di Sopravvivenza per le campagne in Antartico (Sept. 15-30.1997), effettuato in quanto membro di 2 spedizioni italiane (nov. 1997 – feb. 1998 e gen. – mar. 2001), le campagne si sono svolte a bordo della nave oceanografica *Italica*.
- Attività personale sportive in montagna (Ski randonné, climbing, hiking) condotta sulle Alpi (Italia, Francia, Svizzera, Austria, Slovenia) e sugli Appennini assieme a partner.
- Allenamenti di fitness ed aerobica in palestra.

ORGANISATIONAL SKILLS

AND COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

Responsabilità di progetto negli ultimi 20 anni:

- Coordinatore del progetto ADAMO "Tecnologie di Analisi, DiAgnostica e MOonitoraggio per la conservazione e il restauro di Beni Culturali" finanziato durante la prima fase del Distretto Tecnologie per la Cultura della Regione Lazio (1/10/2018 – 20/01/2020).
- Coordinatore del progetto n. 1031 "Sviluppo e diffusione di metodi, tecnologie e strumenti avanzati per la COnservazione dei Beni culturali basati sull'applicazione di Radiazioni e di tecnologie abilitanti - COBRA" finanziato dalla regione Lazio LR/13/2008 (21/07/2015-20/12/2017)
- Coordinatore nazionale del progetto negoziale 2001 RBNE01BSXF FIRB "MIAO Micro-sistemi ottici per ambienti estremi ed ostili", finanziato dal MIUR (21/11/2003-21/11/2007)
- Coordinatore del progetto n. 8.3 del PNRA (Programma Nazionale di Ricerche in Antartide) sezione Oceanografia 2002-2003 "ARES – Active and passive remote sensing of the Austral Ocean for biological parameters monitoring".
- Co-proponente del progetto europeo CULTURE 2000 "Saving Sacred Relics of European Medieval Cultural Heritage SSREMCH" (Nov. 2005 – May 2007)
- Responsabile per l'ENEA del progetto FAR n. 6215 "TECVIM Tecnologie per visualizzazione di immagine" (01/07/2006 – 30/06/2010) finanziato dal MIUR.
- Responsabile ENEA del progetto nazionale autonomo 2001 RBAU01CXNP FIRB "Sviluppo di tecniche di diagnostiche laser per lo studio di fenomeni di combustione e autoignizione", finanziato dal MIUR (23/01/04-22/01/07).

Attività scientifica in contesti internazionali:

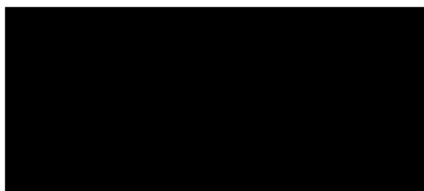
- membro di comitati organizzatori di conferenze internazionali: (1) ECONOS, già ECW, dal 1995 al 2015, chairman nel periodo 2000-2001; (2) LIBS dal 2006 al 2022; EMSLIBS dal 2007 (tuttora in corso).

Organizzazione di Conferenze:

- XVIII European CARS Workshop ECW99, 19-22 /3/1999 Frascati;
- VIII ECONOS/ECW 23-25/5/2009 Frascati; EMSLIBS'09 28/9-1/10/2009 Tivoli Terme.

TECHNICAL SKILLS AND COMPETENCES <i>With computers, specific kinds of equipment, machinery, etc.</i>	Competenze digitali: posta elettronica, windows, google, differenti browser per navigazione, pacchetto office completo, firma digitale e posta certificata.
ARTISTIC SKILLS AND COMPETENCES <i>Music, writing, design, etc.</i>	
OTHER SKILLS AND COMPETENCES <i>Competences not mentioned above.</i>	
DRIVING LICENCE(S)	Italian category B (cars) , since 1975.
ADDITIONAL INFORMATION	
ANNEXES	LIST OF PUBLICATION ON INTERNATIONAL JOURNALS AND BOOKS

“Le informazioni contenute nel presente curriculum sono rese sotto la personale responsabilità del sottoscritto ai sensi degli artt. 46 e 47 del D.P.R. 28 dicembre 2000 n. 445, consapevole della responsabilità penale prevista dall’art. 76 del medesimo D.P.R., per le ipotesi di falsità in atti e dichiarazioni mendaci”;



Roma 5/10/2025

ALLEGATO: Principali prodotti della ricerca della Dr. Roberta Fantoni

⇒ **Elenco delle pubblicazioni su rivista internazionale referata (con ISSN per la stampa)**

1. A. Giardini-Guidoni, R. Fantoni, R. Tiribelli, D. Vinciguerra, R. Camilloni, G. Stefani: "Study of electronic properties of SF₆ molecule by means of (e,2e) spectroscopy" J. Chem. Phys. **71** (1979) 3182. **ISSN:0021-9606**
2. R. Camilloni, G. Stefani, R. Fantoni, A. Giardini-Guidoni: "Study of molecular orbitals by means of (e,2e) spectroscopy on oriented molecules" J. Electron. Spectrosc. **17** (1979) 209. **ISSN: 0368-2048**
3. A. Giardini - Guidoni, R. Fantoni, R. Tiribelli, R. Marconero, R. Camilloni, G. Stefani: "Absolute (e,2e) cross section measured for valence orbitals of Xe" Phys. Lett. **A77** (1980) 19. **ISSN: 0375-9601**
4. R. Fantoni, A. Giardini-Guidoni, R. Camilloni, G. Stefani: "Satellite structures and momentum distributions in binary (e,2e) spectroscopy of N₂O" Chem. Phys. Lett. **71** (1980) 335. **ISSN: 0009-2614**
5. E. Borsella, R. Fantoni, A. Giardini-Guidoni, G. Sanna: "Effects of wavelength, pressure and scavengers on the isotopically selective multiphoton dissociation of C₂F₅Cl" Chem. Phys. Lett. **72** (1980) 25. **ISSN: 0009-2614**
6. A. Giardini-Guidoni, R. Camilloni, R. Fantoni, G. Stefani: "(e,2e) experiments" Comments for At. and Molec. Phys. **10** (1981) 107. **ISSN: 00109-2687**
7. E. Borsella, R. Fantoni, A. Giardini-Guidoni: "Multiphoton absorption and dissociation of C₂F₅Cl" Il Nuovo Cimento **B63** (1981) 83. **ISSN 2037-4895**
8. R. Cambi, G. Ciullo, A. Sgamellotti, F. Tarantelli, R. Fantoni, A. Giardini-Guidoni, A. Sergio: "Ionization of CH₄ and fluoromethanes: a Green's function study and an (e,2e) spectroscopic investigation" Chem. Phys. Lett. **80** (1981) 295. **ISSN: 0009-2614**
9. E. Borsella, R. Fantoni, S. Ribezzo, G. Salvetti: "Some aspects of CO₂ laser induced fluorescence in SF₆-H₂ mixtures" Opt. Commun. **39** (1981) 365. **ISSN 0030-4018**
10. E. Borsella, R. Fantoni, A. Giardini-Guidoni: "Enhancement of multiple-photon dissociation irradiating C₂F₅Cl by two IR lasers" Chem. Phys. Lett. **84** (1981) 313. **ISSN: 0009-2614**
11. E. Borsella, R. Fantoni, G. Petrocchi, G. Sanna, M. Capitelli, M. Dilonardo: "Study of multiphoton excitation of SF₆ molecule in two strong IR laser fields" Chem. Phys. **63** (1981) 219. **ISSN: 0301-0104**
12. R. Fantoni, A. Giardini-Guidoni, R. Tiribelli: "(e,2e) spectroscopy on valence shell of NO molecule" J. Electron. Spectrosc. **26** (1982) 99. **ISSN: 0368-2048**
13. R. Fantoni, A. Giardini-Guidoni, R. Tiribelli, R. Cambi, G. Ciullo, A. Sgamellotti, F. Tarantelli: "An (e,2e) spectroscopic investigation and a Green's function study of the ionization of fluoroethylene" Mol. Phys. **45** (1982) 839. **ISSN: 0026-8976**
14. R. Cambi, G. Ciullo, A. Sgamellotti, F. Tarantelli, R. Fantoni, A. Giardini-Guidoni, M. Rosi, R. Tiribelli: "Ionization of fluoromethanes: CHF₃ and CF₄. A Green's function study and an (e,2e) spectroscopic investigation" Chem. Phys. Lett. **90** (1982) 445. **ISSN: 0009-2614**
15. E. Borsella, R. Fantoni, A. Giardini-Guidoni, C. D. Cantrell: "Observation of structures in the quasi-continuum of multiple-photon excited C₂F₅Cl" Chem. Phys. Lett. **87** (1982) 284. **ISSN: 0009-2614**
16. E. Borsella, R. Fantoni, A. Giardini-Guidoni, C.D. Cantrell "Observation of structures in the quasi-continuum of C₂F₅Cl" Applied Phys. B, **28** (1982) 183-184. **ISSN: 0721-7269**
17. E. Borsella, R. Fantoni, A. Giardini-Guidoni, D. Masci, A. Palucci, J. Reuss: "Dynamics of multiple-photon excitation of CF₃Br studied in a supersonic molecular beam" Chem. Phys. Lett. **93** (1982) 523. **ISSN: 0009-2614**
18. R. Cambi, G. Ciullo, M. Rosi, A. Sgamellotti, F. Tarantelli, R. Fantoni, A. Giardini-Guidoni: "Ionization of fluorinated methanes and ethylenes through (e,2e) process and Green's function approach to predict ionization potentials" Int. J. Mass Spectrom. **46** (1983) 81. **ISSN: 1387-3806**
19. E. Borsella, R. Fantoni, A. Giardini-Guidoni: "Apparatus for on-line mass spectrometric monitoring of photon induced dissociation" Int. J. Mass Spectrom. **47** (1983) 81. **ISSN: 1387-3806**
20. R. Fantoni, A. Giardini-Guidoni, R. Tiribelli, R. Cambi, M. Rosi, F. Tarantelli: "An experimental and theoretical investigation on the effect of the substituent in the monohaloderivatives of the C₂H₄ molecule" La Gazzetta Chimica Italiana **113** (1983) 697. **ISSN 0016-5603**
21. A. Giardini-Guidoni, E. Borsella, R. Fantoni: "Dynamics of multiphoton excitation of CF₃Br studied by means of one or two IR laser frequencies: La Gazzetta Chimica italiana **113** (1983) 635. **ISSN 0016-5603**
22. E. Borsella, R. Fantoni, A. Giardini-Guidoni, D.R. Adams, C.D. Cantrell: "Resonance structure of multiple-photon excitation in symmetric and asymmetric tops" Chem. Phys. Lett. **101** (1983) 86. **ISSN: 0009-2614**
23. R. Cambi, G. Ciullo, A. Sgamellotti, F. Tarantelli, R. Fantoni, I.E. Mc Carthy, A. Giardini-Guidoni, V. Di Martino: "An (e,2e) spectroscopic investigation and a Green's function study of ionization of Chloro- and Bromoethylene" Chem. Phys. Lett. **101** (1983) 477. **ISSN: 0009-2614**
24. E. Borsella, C. Clementi, R. Fantoni, A. Giardini-Guidoni, A. Palucci: "Isotopic enrichment in laser-induced multiphoton dissociation: C¹³ separation from natural CF₃Br in a flow system" Il Nuovo Cimento **A73** (1983) 364. **ISSN: 0369-3546**
25. V. Di Martino, R. Fantoni, A. Giardini-Guidoni, R. Tiribelli: "Triple differential cross section for electron impact ionization of He: measurements taken at intermediate energy" Phys. Lett. **A103** (1984) 45. **ISSN: 0375-9601**
26. E. Borsella, R. Fantoni, Liu Yu Shen, M. Nardelli: "One and two-frequency multiple photon dissociation (M.P.D.) of SF₆ under molecular beam conditions: effects of fluence and temperature" Il Nuovo Cimento **D4** (1985) 548. **ISSN: 0392-6737**
27. E. Borsella, R. Fantoni, A. Ferretti, A. Giardini-Guidoni, M. Dilonardo, J. Reuss: "The effect of vibrational structure on multiphoton dissociation spectra of CF₃Br" Chem. Phys. **94** (1985) 309. **ISSN: 0301-0104**

28. U. Del Bello, E. Borsella, R. Fantoni, A. Giardini-Guidoni, C.D. Cantrell "Study of IR multiphoton resonances in the CF₃I molecule" Chem. Phys. Lett. 114 (1985) 467. **ISSN: 0009-2614**
29. A. Giardini-Guidoni, E. Borsella, R. Fantoni: "Multiphoton dissociation in molecular beams" Europhys. News 16 (1985) 2. **ISSN: 0531-7479**
30. A. Giardini-Guidoni, E. Borsella, R. Fantoni: "Dynamics of excitation and reactions of simple molecules induced by laser radiation" Berichten der Bunsen-Gesellschaft für Phys. Chemie 89 (1985) 286. **ISSN: 0005-9021**
31. R. Fantoni, M. Stuke: "Laser multiphoton ionization of organometallic compounds: Te atomic resonances in C₂H₅-Te-C₂H₅ fragmentation" Appl. Phys. B38 (1985) 209. **ISSN: 1432-0649**
32. M. Snels, R. Larciprete, R. Fantoni, E. Borsella, A. Giardini-Guidoni: "Multiple-photon excitation spectra of SiH₄ measured in the 10 μm range by continuously tunable CO₂ laser" Chem. Phys. Lett. 122 (1985) 480. **ISSN: 0009-2614**
33. M. Snels, R. Fantoni, M. Zen, S. Stolte, J. Reuss: "VanderWaals modes and rotational fine structure in C₂H₄ dimers" Chem. Phys. Lett. 124 (1986) 1. **ISSN: 0009-2614**
34. R. Fantoni, A. Giardini-Guidoni, R. Tiribelli, R. Cambi, M. Rosi: "Ionization potentials and electron momentum distributions of fluorosilanes: SiF₄ valence shell orbitals" Chem. Phys. Lett. 128 (1986) 67. **ISSN: 0009-2614**
35. M. Snels, R. Fantoni: "IR dissociation of dimers of high symmetry molecules: SF₆, SiF₄, SiH₄" Chem. Phys. 109 (1986) 67. **ISSN: 0301-0104**
36. K. van Helvoort, R. Fantoni, W. Leo Meerts, J. Reuss: "Internal rotation in CH₃CD₃: Raman spectroscopy of torsional overtones" Chem. Phys. Lett. 128 (1986) 494. **ISSN: 0009-2614**
37. R. Fantoni, K. van Helvoort, W. Knippers, J. Reuss: "Direct observation of torsional levels and torsion-rotation-vibration interactions in Raman spectra of C₂H₆" Chem. Phys. 110 (1986) 1. **ISSN: 0301-0104**
38. G. Baldacchini, R. Fantoni, S. Marchetti, V. Montelatici, A. Giardini-Guidoni, P. Morales, F. Catoni: "Diode laser absorption of UF₆ at room temperature around 16 μm" Il Nuovo Cimento D8 (1986) 203. **ISSN: 0392-6737**
39. K. van Helvoort, W. Knippers, R. Fantoni, S. Stolte: "The Raman spectrum of ethane from 600 to 6500 cm⁻¹ Stokes shift" Chem. Phys. 111 (1987) 445. **ISSN: 0301-0104**
40. M. Snels, R. Fantoni, R. Sanders, W. Leo Meerts: "IR dissociation of ammonia clusters" Chem. Phys. 115 (1987) 79. **ISSN: 0301-0104**
41. M. Rosi, R. Cambi, R. Fantoni, R. Tiribelli, M. Bottomei, A. Giardini-Guidoni: "Electron momentum spectroscopy of trisubstituted amines: the valence shell orbitals of triethylamine" Chem. Phys. 116 (1987) 399. **ISSN: 0301-0104**
42. R. Fantoni, R. Larciprete, S. Piccirillo, G. Bertoni, R. Fratarcangeli, M. Rotatori: "Laser induced dissociation of polychlorinated biphenyls in liquid phase" Chem. Phys. Lett. 143 (1988) 245. **ISSN: 0009-2614**
43. D. Consalvo, S. Loreti, A. Mele, A. Giardini-Guidoni, R. Teghil, E. Borsella, R. Fantoni: "Mechanism and kinetics of monosilane photolysis and vapour deposition of Si produced by IR laser" High Temp. High Press. 20 (1988) 201. **ISSN 0018-1544**
44. R. Fantoni, E. Borsella, S. Piccirillo, A. Giardini-Guidoni, R. Teghil: "IR photo-decomposition of CH₃COCF₃" Laser Chem. 8 (1988) 385. **ISSN: 0278-6273**
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⇒ **Organizzazione di Conferenze**

1. Conferenza internazionale XVIII European CARS Workshop ECW99, Frascati (ENEA) 19-22 /3/1999.
2. Conferenza Internazionale ALT'04 (Advanced Laser Technologies) a Roma (Università Sapienza) e Frascati (ENEA), 10-15/9/ 2004 (co-organizzatore con A. Giardini ed E. Borsella).
3. Conferenza internazionale ECONOS/ECW 2009, Frascati (ENEA) 25-27/5/2009.
4. Conferenza internazionale EMSLIBS 2009, Tivoli Terme 27/09-01/10/2009.
5. Conferenza internazionale EMSLIBS 2011 Cezme-Izmir (Turkey) (co-organizzatore con S. Yalcin)

⇒ **Premi**

1. Premio Stampacchia 1979 per il miglior lavoro in campo chimico.
2. Premio Carnia Alpe Verde 1992 per l'applicazione del lidar fluorosensore al monitoraggio della vegetazione arborea (congiuntamente a: R. Barbini, F. Colao, A. Palucci, S.Ribezzo).