

Europass Curriculum Vitae



Personal information	
Surname(s) / First name(s)	Giacomazzi Luigi
Email(s)	giacomazzi-at-iom.cnr.it
Nationality(-ies)	Italiana
Gender	Male
Work experience	
Dates	From 1 February 2022
Occupation or position held	Staff Researcher
	• Research activity mainly concerning materials relevant for microelectronics and for the optical fibers technology (e.g. silicon, silica, alumina and other amorphous ox-ides). Study of point defects in these materials by means of first-principles techniques.
	• ISCRA-C P.I. CINECA HPC grants CAPSIM (2025), FirESS (2023) and NFFAM- HP10C2GG7R (2024). Participation in Mamba and As4DS projects.
	• Co-encadrant (co-mentor) PhD Thesis (C. Simha, Univ. of Toulouse (2024)) and Continuum Mechanics lecturer (incarico extra-ist).
Name and address of employer	Istituto Officina dei Materiali (IOM) - CNR,
	c/o SISSA via Bonomea 265, 34136 Trieste (Italia).
Dates	From 1 October 2018 to January 2022
Occupation or position held	Assistant Professor
	• Research activity concerning materials relevant for microelectronics and for the op- tical fibers technology e.g. silica and amorphous oxides such as NaPO ₃ and P ₂ O ₅ glasses. Study of point defects in pure and doped silica by means of first-principles techniques.
	 Linear Algebra lecturer; Continuum Mechanics lecturer.
Name and address of employer	University of Nova Gorica, Materials research laboratory Vipavska 11c SI-5270 Aj- dovscina (Slovenia)
Dates	From 1 April 2017 to 30 September 2018
Occupation or position held	Postdoc Talents ³ fellowship (Assegno di ricerca).

	 Within the recently obtained Talents3 fellowship (https://www.areasciencepark.it/innovazione/programma-di-mobilita-internazionale-talents/) investigations have carried out to study defects in rare-earth and rare-earth P-codoped silica based optical fibers. Given its relevance for the RE doping, also P-doped silica and P₂O₅ optical and vibrational properties have been studied (Outgoing phase started in April 2017 at the Materials Research Laboratory of the University of Nova Gorica, while return phase started in April 2018 at SISSA). Awarded with a computational grant through the HPC Challenge of Arctur d.o.o. (2018). ISCRA-B project leader. CINECA grant OXYRIS-HP10B5K2GU (2017).
Name and address of employer	Area Science park FVG Trieste (Italia)
Dates Occupation or position held	 From 1 September 2012 to 28 February 2017 Postdoc (Assegno di ricerca). Research project dedicated to color centers in pure, Ge-doped vitreous silica (v-SiO₂) and vitreous germania (v-GeO₂), the understanding of which is of paramount importance for improving the performances of silica-based optical fibers as well as microelectronic devices. This is especially true for applications in harsh-environments where a high concentration of these radiation-induced defects can stop the normal functioning of silica-based devices. In particular, a class of paramagnetic color centers in silica based materials, i.e. the E' centers, were investigated by means of first-principles calculations of electron paramagnetic resonance (EPR) parameters by using the QE-GIPAW and Quantum-Espresso package. For ODC(II) centers optical absorption was calculated by using SaX http://dx.doi.org/10.1016/j.cpc.2009.02.005
Name and address of employer	 ISCRA-B project leader. CINECA grant OMEGAFIB-HP10BMKWVL (2015-2016). ISCRA-B project leader. CINECA grant EPRFIBER-HP10B4CVBH (2013-2014). CNR-IOM/Democritos, c/o SISSA via Bonomea 265, 34136 Trieste (Italia).
Dates Occupation or position held Main activities and responsibilities	 From 9 January 2012 to 30 June 2012. Visiting scientist (Postdoc). Development of programs and scripts for calculating the dissociation constant of water at high pressure and temperature by using an ab-initio parametrized force field for water. Research project "First-principles study of electronic defects in vitreous silica". This project especially aims at improving our understanding of silica under irradiation, e.g in optical fibers used in harsh-environments as in nuclear power plants (work in collaboration with Prof. S. Scandolo ICTP, Dr. L. Martin-Samos , University of Nova-Gorica, and Prof. S. De Gironcoli SISSA)
Name and address of employer	The Abdus Salam International Centre for Theoretical Physics (ICTP).
Dates Occupation or position held Main activities and responsibilities	 From 16 December 2009 to 15 December 2011. Postdoc. Testing and developing tasks for the GWL code for GW calculations of large systems such as organic dyes on a titania surface (work in collaboration with Dr. P. Umari, Università di Padova and Prof. F. De Angelis, Università di Perugia). Study of electronic, structural and vibrational properties of amorphous materials (a-Si₃N₄, v-GeSe₂, v-SiO₂). Referee for an international founding agency and for international peer-review journals. Use of the large computer facilities provided by CINECA (https://hpc.cineca.it/). Maintenance of the package "Vibtools" for post-processing of vibrational spectra (www.qeforge.org).
Name and address of employer	Scuola Internazionale Superiore di Studi Avanzati (SISSA), via Bonomea 265, 34126, Trieste (Italia).

Dates	From 15 March 2007 to 15 December 2009		
Occupation or position held	Postdoc (Assegno di ricerca).		
Main activities and responsibilities	• Study of dislocation properties in coesite (SiO ₂), and of high-pressure phase transitions of gypsum relevant for the understanding of Earth mantle rheology. Study of electronic, structural and vibrational properties of amorphous materials (a-Si ₃ N ₄ , v-GeO ₂ , v-SiO ₂).		
	• Referee for international peer-review journals (J. of Applied Physics; Physical Review B; J. of Physics-Condensed Matter)		
	• Visit to LSPES laboratory (Lille, France) for scientific collaboration in the frame- work of the Postdoc research project concerning the study of dislocations in coesite. January 2009.		
	• Visit to Kyoto University (Japan) for scientific collaboration in the framework of the Postdoc research project concerning the study of dislocations in coesite. March 2008.		
Name and address of employer	CNR-INFM/Democritos, Strada costiera 11, 34151 Trieste (Italia), at the Abdus Salam International Centre for Theoretical Physics (ICTP).		
Teaching experiences			
	• (From 2020) Lecturer of the "Continuum Mechanics" course. [UNG, Physics and Astrophysics section, 1st Level].		
	• (From January 2019 to 2021) Lecturer of the "Linear Algebra" course [UNG, Physics and Astrophysics section, 1st Level].		
	• (academic year 2023/2024) Lecturer of the course "Advanced numerical methods" [UNG, Physics and Astrophysics section, 2nd Level].		
	• (academic year 2020/2021) Lecturer of the course "Advanced mathematical topics" [UNG, Physics and Astrophysics section, 2nd Level].		
	• (Feb–March 2012) Online tutor via MOODLE interface for the "Advanced Electro- magnetism" course held at ICTP. Main tasks: write html documentation for the course lessons; provide students with materials (books, exercises, multiple choice quizzes, online lessons).		
	• (July 2010). Oral presentation: Introduction to the VibTOOLS package. CECAM tutorial: Simulating Spectroscopy using Quantum-ESPRESSO related codes. SISSA (Trieste, IT).		
	• (From 2003 to 2006) I assisted Prof. A. Pasquarello for the lectures: Cours de Physique générale III et IV pour Systèmes de Communication (3ème et 4ème semestres). In particular, I was involved in preparing exams and helping students to solve exercises classes.		
Mentoring experiences			
	 PhD Thesis co-encadrant (C. Simha, "Ab initio characterisation of spectroscopic properties of defects in silicon", University of Toulouse, 27th March 2024). Supervising a "diploma seminar" project (UNG): Vibrational spectra of am-Al₂O₃: tuning a parametric model, J. Kurtović (February-August 2021). Co-advisor of a diploma thesis project of a student at ICTP (Mr. R. Kanal, Supervisor Prof. S. Scandolo): "the dissociation constant of water at extreme conditions: a molecular dynamics study" (April-June 2012). In 2010 I helped Prof. S. Baroni in supervising a first year SISSA PhD student (Xiaochuan Ge), whose project concerned the study of the absorption spectra of a class of natural dyes by using time dependent density functional techniques (Report 15/12/2010, "Seeing Colors With TDDFPT"). 		

Other academic achievements, honors, and activities					
	 French qualifica Chairman of the posium on SiO2: Individual membrication 	tion aux fonction e session "Defec SiO2018, (Bari, I bership of the Ita	s de Maître de C ts and Modeling taly) 11-13 June ian Physical Soc	onférences (201) II" at The 12th Ir 2018. iety (SIF).	0). hternational Sym-
Education and training					
Dates Title of qualification awarded Title of the Thesis Principal subjects/Occupational skills covered	 From 01/01/2003 to 04/03/2007. Docteur ès Sciences. First principles vibrational spectra of tetrahedrally-bonded glasses: SiO₂, GeO₂, and GeSe₂. Physics of glasses. Programming in Fortran90, Bash, Perl, Python. 				
	 Preparing scient research project. Use of the large Use of the prog calculations. 	e computer faciliti rams in the Qua	p. 3) and oral p es provided by C ntum ESPRESS(scs (www.cscs. SCS (www.cscs. D package for el	cerning the PhD ch) e dell'EPFL. ectronic structure
Name and type of organization providing education and training	Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.				
Dates Title of qualification awarded Title of the Thesis s Principal subjects/Occupational skills covered Name and type of organization providing education and training	 2002 Degree in Physics with marks 110/110 cum laude Proprietà dinamiche di ⁴He liquido: risultati della Teoria del Funzionale Densità. State solid physics. Programming in Fortran90, C++, Matlab. Writing of scientific manuscripts by using LaTEX. Università degli Studi di Padova, Italia 				
Dates Title of qualification awarded Name and type of organization providing education and training	1997 Diploma di Maturità scientifica with marks 57/60 Liceo scientifico "Tito Lucrezio Caro", Cittadella, Padova.				
and competences					
Mother tongue(s)	Italiano				
Other language(s)					
Self-assessment European level ^(*)	Unders Listening	tanding Reading	Spoken interaction	iking Spoken production	Writing
English	C1 Proficient user	C1 Proficient user	C1 Proficient user	B2 Independent user	C1 Proficient user
French	B2 Independent user	C1 Proficient user	C1 Proficient user	B2 Independent user	B2 Independent user

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Slovenian

A2 Basic user

A2 Basic user

A2

Basic user

A2 Basic user

A2 Basic user

German	A1 Basic user A1				
Computational Packages	Quantum Espresso; Lammps; CP2K; SaX, QE-GIPAW				
Computer skills and competences	 Experience with Linux e Unix operative systems. Good knowledge of LATEX, obtained by self-teaching and from professional context. Good knowledge of the programming language Fortran90, obtained by self-teaching and from professional context. General knowledge of the programming languages C++, Bash, Perl, Matlab, Python, obtained by self-teaching (Matlab), professional context (Bash, Python) and introductory courses (C++ e Perl). General knowledge of the packages Office e OpenOffice, obtained by self-teaching. 				
Driving licence(s)	Italian "Patente B" (European driving licence).				
Additional information					
Marital status	Married with children				
	 Selection of attended lectures and courses Slovene language course, UNG, Nova Gorica, 2019. School on Electron-Phonon Physics from First Principles (free listener). ICTP Trieste (IT), March 2018. Basic Slovene language course. SISSA Club, SISSA Trieste (IT), Feb–June 2014. Basic course on how to use the IBM Sp6 platform. ICTP, Trieste (IT), Nov. 2009. Programming course: Perl. EPFL, Lausanne (CH), October 2006. Parallel programming course: Parallel programming workshop: an introduction into the basics of parallel programming. CSCS, Lugano (CH), August 2005. Corso di Tecniche di debugging e di ottimizzazione di codici scalari e paralleli. CINECA, Bologna (IT), October 2004. Cours de français B2. Centre de langue de l'EPFL, Lausanne (CH), March–June 2004. Corso sul calcolo delle proprietà elettroniche, strutturali e dinamiche dei materiali: un'introduzione pratica all'uso del package PWscf-FPMD-CP. CINECA, Bologna (IT), March 2004. Cours de français B1. Centre de langue de l'EPFL, Lausanne (CH), March–June 2003. Basic German language course. Centro Diffusione Lingue, Padova (IT), July 2002. C++ programming course. Mathematics Department of the University of Padova. March–May 2002. 				
0	S. Fioccola, L. Giacomazzi et al. "QE-CONVERSE: An open-source package for the Quantum ESPRESSO distribution to compute non-perturbatively orbital magne- tization from first principles, including NMR chemical shifts and EPR parameters " (Submitted dec. 2024). ArXiv.				
1	L. Giacomazzi et al. "Identification of paramagnetic cen- ters in irradiated Sn-doped silicon dioxide by first-principles", Journal of Physics: Condensed Matter 36 , 215502 (2024).				
2	C. Simha, G. Herrero-Saboya, L. Giacomazzi, L. Martin-Samos, A. Hemeryck, N. Richard "Deep Levels and Electron Paramagnetic Resonance Parameters of Substitutional Nitrogen in Silicon from First Principles," Nanomaterials 13, 2123 (2023).				

- 3 L. Giacomazzi, N. S. Shcheblanov, M. E. Povarnitsyn, Y. Li, A. Mavrič, B. Zupančič, J. Grdadolnik, and A. Pasquarello, "Infrared spectra in amorphous alumina: A combined ab initio and experimental study" Physical Review Materials 7, 045604 (2023).
- 4 I. Reghioua, L. Giacomazzi et al. "O2 Loaded Germanosilicate Optical Fibers: Experimental In Situ Investigation and Ab Initio Simulation Study of GLPC Evolution under Irradiation", Applied Sciences 12, 3916 (2022).
- 5 **L. Giacomazzi** et al. "Paramagnetic Intrinsic Point Defects in Alkali Phosphate Glasses: Unravelling the P3 Center Origin and Local Environment Effects," J. Physical Chemistry C 125, 8741 (2021).
- N. Salles, L. Martin-Samos, S. de Gironcoli, L. Giacomazzi, M. Valant, A. Hemeryck,
 P. Blaise, B. Sklenard, N. Richard, "Collective dipole effects in Ionic Transport under electric fields", Nature Commun. 11, 3330 (2020).
- N.S. Shcheblanov, L. Giacomazzi, M.E. Povarnitsyn, S. Kohara et al, "Vibrational and structural properties of glass: Advances from a combined modeling approach", Phys. Rev. B 100, 134309 (2019).
- 8 **L. Giacomazzi** et al. "v-P2O5 micro-clustering in P-doped silica studied by a firstprinciples Raman investigation", Sci. Reports **9**, 7126 (2019).
- 9 D. A. J. Whittaker, L. Giacomazzi, Devashibhai Adroja, S. M. Bennington, A. Pasquarello, and P. S. Salmon, "Partial vibrational density of states for amorphous solids from inelastic neutron scattering," Phys. Rev. B 98, 064205 (2018).
- 10 **L. Giacomazzi** et al, " Optical absorption spectra of P defects in vitreous silica", Opt. Mater. Express **8**, 385 (2018).
- 11 **L Giacomazzi**, L Martin-Samos, A. Alessi, A. Boukenter, Y. Ouerdane, S. Girard, S. De Gironcoli, and N. Richard, "Photoactivated processes in optical fibers: generation and conversion mechanisms of twofold coordinated Si and Ge atoms.", Nanotechnology **28**, 195202 (2017).
- 12 B. Winkler, L. Martin-Samos, N. Richard, L. Giacomazzi, A. Alessi, S. Girard, A. Boukenter,Y. Ouerdane, and M. Valant, "Correlations Between Structural and Optical Properties of Peroxy Bridges from First-Principles." J. Phys. Chem. C 121, 402 (2017).
- 13 S. Girard, A. Boukenter, Y. Ouerdane, N. Richard, C. Marcandella, P. Paillet, L. Martin-Samos, and L. Giacomazzi, "Radiation Effects on Optical Fibers and Fiber-Based Sensors, in Ionizing Radiation Effects in Electronics: From Memories to Imagers", ed. M. Bagatin, S. Gerardin, CRC Press (2015).
- 14 **L Giacomazzi**, L Martin-Samos, N Richard, "Paramagnetic centers in amorphous GeO₂", Microelectron. Eng. **147**, 130 (2015).
- 15 **L Giacomazzi**, L Martin-Samos, A Boukenter, Y Ouerdane, S Girard, and N. Richard, "Ge(2), Ge(1) and Ge-*E*' centers in irradiated Ge-doped silica: a first-principles EPR study", Opt. Mater. Express **5**, 1054 (2015).
- 16 **L. Giacomazzi**, L. Martin-Samos, A. Boukenter, Y. Ouerdane, S. Girard, N. Richard "EPR parameters of *E'* centers in v-SiO₂ from first-principles calculations", Phys. Rev. B **90**, 014108 (2014).
- 17 P. Umari, L. Giacomazzi, F. De Angelis, M. Pastore, and S. Baroni, "Energy-level alignment in organic dye-sensitized TiO2 from GW calculations.", Journal of Chemical Physics 139, 014709 (2013).
- 18 Luigi Giacomazzi, C. Massobrio, and A. Pasquarello, "Vibra-BLYP tional properties of vitreous GeSe₂ with density functional." Journal of Physics-Condensed Matter 23, 295401 (2011).
- 19 P. Umari, X. Qian, N. Marzari, G. Stenuit, L. Giacomazzi, and S. Baroni, "Accelerating GW calculations with optimal polarizability basis." Physica Status Solidi B 248, 527 (2011).
- 20 L. Giacomazzi, P. Carrez, S. Scandolo, and P. Cordier, "Dislocation properties of coesite from an ab-initio parametrized interatomic potential." Physical Review B 83, 014110 (2011).
- 21 Luigi Giacomazzi and S. Scandolo, "Gypsum under pressure: a first-principles study." Physical Review B 81, 064103 (2010).

- 22 **Luigi Giacomazzi** and P. Umari, "First-principles investigation of electronic, structural and vibrational properties of a-Si₃N₄." Physical Review B **80**, 144201 (2009).
- 23 **Luigi Giacomazzi**, P. Umari, and A. Pasquarello, "Medium-range structure of vitreous SiO₂ obtained through first-principles investigation of vibrational spectra." Physical Review B **79**, 064202 (2009).
- Luigi Giacomazzi and A. Pasquarello, "Vibrational spectra of vitreous SiO₂ and vitreous GeO₂ from first principles." Journal of Physics-Condensed Matter **19**, 415112 (2007).
- 25 Luigi Giacomazzi, C. Massobrio, and A. Pasquarello, "First-principles investigation of the structural and vibrational properties of vitreous GeSe₂." Physical Review B 75, 174207 (2007).
- Luigi Giacomazzi, P. Umari, and A. Pasquarello, "Vibrational spectra of vitreous germania from first-principles." Physical Review B 74, 155208 (2006).
- 27 **Luigi Giacomazzi**, P. Umari, and A. Pasquarello, "Medium-Range Structural Properties of Vitreous Germania Obtained through First-Principles Analysis of Vibrational Spectra." Physical Review Letters, **95**, 075505 (2005).
- 28 Luigi Giacomazzi, F. Toigo, and F. Ancilotto, "Dynamics of liquid ⁴He in confined geometries from time-dependent density functional calculations." Physical Review B 67, 104501 (2003).

Selected Conferences and Talks.

- 00 (Invited) Oral presentation. First-principles identification of paramagnetic centers in irradiated F-doped silica . Authors L. Giacomazzi et al 15th Symposium SiO2, Advanced Dielectrics and Related Devices (SiO2-2025), Saint Etier
- 0 Oral presentation. Raman spectra of *a*-Ta2O5: а firstprinciples Authors Giacomazzi. Ρ. analysis. L. Umari. GRAvitational-wave Science-technology Symposium, GRASS2024, Trento.
- 1 Poster presentation: Ab-initio computation of EPR g tensor for point defects in solid state: results from the modern theory of orbital magnetization. Authors S. Fioccola, L. Giacomazzi, D. Ceresoli, A. Hemeryck, L. Martin-Samos, N. Richard, Cecam DSQT 2024, Budapest.
- presentation: 2 Oral Identification of paramagnetic centers in irradiated Sn-doped SiO2 glass first-principle calculations by 14th International Conference on SiO2, Dielectrics and Related Devices, 12-14 June 2023. Palermo.
- 3 Oral presentation: Unravelling the P₃ centers origin in alkali phosphate glasses, 27th Annual meeting of the Slovenian Chemical Society, 22-24 Sept. 2021, Portoroz.
- 4 Oral contribution: Unravelling the P₃ centers origin in alkali phosphate glasses, 107th Congresso nazionale Società Italiana di Fisica (SIF) 13-17 Sept. 2021 (Online).
- 5 Oral presentation: *v*-P₂O₅ "micro-clusters" in P-doped silica studied by a firstprinciples Raman investigation. 25th Annual meeting of the Slovenian Chemical Society, 25-27 Sept. 2019, Maribor.
- 6 Oral presentation (invited): Color centers in P-doped silica: generation, conversion mechanisms and optical properties. The 12th International Symposium on SiO2: SiO2018, (Bari, Italy) 11-13 June 2018.
- 7 Oral presentation: Color centers in P-doped silica optical fibers: a first-principles investigation. 8mes Journées sur les Fibres Optiques en Milieu Radiatif, University of Mons, (Mons, Belgium) 11-12 Dec. 2017.
- 8 Oral presentation: Color centers in P-doped and Yb-doped silica optical fibers: a first-principles investigation. FisMat2017, (Trieste, Italy), 1-5 Oct. 2017.
- 9 Oral presentation: Paramagnetic H-related defects in silica: a first-principles investigation., CMMSE2016 (Cadiz, Spain) July 4-8, 2016.

- 10 Oral presentation: Spectroscopie théorique (RPE, Raman...): état de l'art+exemples+limitations, Workshop Approche Couplée, University of Saint-Etienne, June 16-17, 2016.
- 11 Poster presentation: First-principles calculations of EPR parameters of P-related defects in SiO₂, 11th International Symposium on SiO₂, University of Nice (Nice, France), 13 Jun–15 June 2016.
- 12 Oral presentation: First-principles investigation of paramagnetic centers in *v*-SiO₂, Ge-doped SiO₂ and v-GeO₂. FisMat2015, (Palermo, Italy), 27 Sept. - 2. Oct. 2015.
- 13 Poster presentation: Paramagnetic centers in *a*-GeO₂. INFOS2015, University of Udine (Udine, Italy), 29 Jun–2 July 2015.
- 14 Poster presentation: Unravelling the origin of the E'_{α} and Ge(2) centers. Total Energy, ICTP(Trieste, Italy). 15–17 Jan. 2015
- 15 Oral presentation: First-principles calculations of EPR parameters of *E'* centers in v-SiO2. Eurodim2014 (Canterbury, United Kingdom). 13–19 July 2014.
- 16 Oral presentation: First-principles calculations of EPR parameters of vacancy-related defects in v-SiO2.. SiO2 2014 Symposium (Cagliari, Italy). 16–18 June 2014.
- 17 Oral presentation: Radiation induced color centers in Silica: a first-principles investigation.. CMSSE2013 (Almeria, Spain). 24–27 June 2013.
- 18 Participation to 3mes Journées sur les Fibres Optiques en Milieu Radiatif, University of Nice, (Nice, France) 12-13 nov. 2012.
- 19 Oral presentation: First-principles investigation of chemical disorder in Vitreous GeSe₂. ESG2012 (Maastricht, Hollande). 3–6 June 2012.
- 20 Poster presentation: First-principles study of electronic defects in silica glass. ESG2012 (Maastricht, Hollande). 3–6 June 2012.
- 21 Poster presentation: Many Body Perturbation Theory simulations of the electronic properties of large systems. CECAM workshop: Challenges and Solutions in GW Calculations for Complex Systems UNIL (Lausanne, Switzerland). 7–10 June 2011.
- 22 Poster presentation: First-Principles Investigation of *a*-Si₃N₄. CECAM workshop: Which Electronic Structure Method for the Study of Defects? EPFL (Lausanne, Switzerland). June 2009.
- 23 Oral presentation: Vibrational spectra of vitreous SiO₂ and vitreous GeO₂ from firstprinciples . CECAM workshop: Mineral spectroscopy by theory and experiment. EPFL (Lausanne, Switzerland). Oct. 2008.
- 24 Posters presentation: Generalized stacking fault energy surfaces and dislocations properties in Coesite and First-Principles Investigation of the Structural and Vibrational Properties of *a*-Si₃N₄. CPMD workshop. ICTP (Trieste, IT). June 2008.
- 25 Oral presentation (Invited): Vibrational spectra of vitreous SiO₂ and vitreous GeO₂ from first-principles. CECAM workshop: Glasses meet Glasses (Lyon, France). June 2007.
- Poster presentation: Vibrational spectra of vitreous GeO₂ and vitreous GeSe₂ from first-principles.First EuroMinSci Conference (La Colle sur Loup, Nice, France). March 2007.
- 27 Oral presentation: Medium-Range Structural Properties of Vitreous Germania Obtained through First-Principles Analysis of Vibrational Spectra. APS March Meeting (Baltimore, USA). March 2006.