

CURRICULUM VITAE ET STUDIORUM: PROF. Gianluca Malavasi



Personal data: Born in Modena (Italy), 21/07/1975

Present Position: Associate Professor from November 2014

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EDUCATION

- **July 1999** Degree in Chemistry (110/110 summa cum laude) at the University of Modena and Reggio Emilia, Italy with a thesis entitled 'Polycarboxylate Zirconium (IV) complexes as raw materials for the preparation of pure ZrO_2 ', under the supervision of Prof. L. Menabue and Prof. M. Saladini.
- **April 2004** Ph. D. in Chemistry at Dept. of Chemistry, University of Modena and Reggio Emilia, Italy with a thesis entitled 'Synthesis, characterization and computational simulation of inorganic oxides', under the supervision of Prof. L. Menabue, Prof. M.C. Menziani and Prof. G. Lusvardi.

PREVIOUS POSITIONS AND FELLOWSHIPS

- **From April 2004 to December 2004.** Postdoctoral position at University of Modena e Reggio Emilia, Italy.
- **From January 2005 to October 2014.** Assistant Professor (CHIM03-General and Inorganic Chemistry) at the Dept. Of Chemistry, University of Modena and Reggio Emilia, Italy.

VISITS AND STAYS

- **September 2014 to December 2002** Visiting at Aberystwyth-University of Wales-U.K. in the labs of Prof. G.N. Greaves
- **September 2003** Visiting scientist at the Physical and Theoretical Chemistry Lab.- Oxford University-U.K. (Prof. P.A. Madden)
- **April 2014 to June 2014** Visiting Professor at the Department of Inorganic and Bioinorganic Chemistry of the Faculty of Pharmacy at Universidad Complutense de Madrid in the labs. of Prof. M. Vellet-Regi and Prof. A.J. Salinas (<http://www.valletregigroup.com>)

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

The research activity is mainly focused on the field of inorganic material chemistry; in particular, the activity can be divided into three lines:

- i) one is devoted to the synthesis, characterization and application of inorganic oxides (for example nanoparticles, pigments, phosphorescent aluminate...) used mainly in the ceramic field;
- ii) the second one is the synthesis (melting, sol-gel and EISA) and the characterization through a computational & experimental approach of silica-based glasses, in particular bioactive glasses. The characterization is focused on the determination of material bioactivity and enzymatic-like activity
Expertise: Powder X-Ray Diffraction, Thermal Analysis, Spectroscopic Analysis, Textural Analysis (N₂ adsorption) and Classical Molecular Dynamic Simulations of amorphous systems.
- iii) Innovative fertilizer systems with low environmental impact for biological farming with the aim to: reduce the use of chemicals (recycling of agro-industrial waste); favour the use of natural product and residues; increase plant defence (protection and yield); reduce water and energy use; study systems approving micro and macro nutrients over the time.

MAJOR COLLABORATIONS

- GM has established numerous national collaborations (Dip. di Chimica - Università di Torino, Dip. DiSCAFF – Piemonte Orientale, Dip. Di Scienze Agrarie – Università di Bologna, Scuola Normale Superiore di Pisa) ed international collaboration (Departamento de Química Inorgánica y Bioinorgánica - Universidad Complutense Madrid Gruppo Prof. M. Vallet-Regí e Prof. A.J. Salinas; Kazuo Inamori School of Engineering, New York State College of Ceramics Alfred University Gruppo Prof. A.N. Cormack; CEA, IRAMIS, Gif-sur-Yvette, France Gruppo Dr. T. Charpentier; Otto Schott Institute of Materials Research, Friedrich Schiller University Jena, Germany Gruppo Prof. Delia S. Brauer).

FUNDING AND PROJECTS

GM has participated and still participates in several national research projects (PRIN and Furb-Futuro in Ricerca) and regional (Spinner2013). He also received funding for his research from Fondazioni (Fondazione di Vignola) and from private companies through the signing of contracts and agreements.

TEACHING ACTIVITIES

- February 2003 – Tutor in the “I Scuola Nazionale in Simulazioni Computazionali Multiscala Applicate alle Scienze dei Materiali”, Modena 17-21 Febbraio 2003
- February 2005 – Teacher in the “III Scuola Nazionale in Simulazioni Computazionali Multiscala Applicate alle Scienze dei Materiali”, Modena 14-18 Febbraio 2005
- December 2005-April 2006 Teacher of the course “Chimica” for the CORSI ABILITANTI SPECIALI EX LEGGE 143/04
- June - September 2007 tutor in the CORSI ABILITANTI SPECIALI LEGGE 143/04 Decreto 85/2005
- Teacher of the courses: 1) ‘Laboratorio di Chimica dei Materiali’ al 3° anno della Laurea in Chimica (4 CFU); 2) Modulo nel corso di “Chimica” al 1° anno della Laurea Specialistica in Scienze per il recupero e la conservazione del patrimonio archeologico (2 CFU) (from the academic years 2004/2005 to 2006/2007).
- Teacher of the courses: 1) ‘Chimica dei Materiali Inorganici e Laboratorio’ al 3° anno della Laurea in Chimica (5 CFU); 2) Modulo nel corso di “Chimica” al 1° anno della Laurea Specialistica in Scienze per il recupero e la conservazione del patrimonio archeologico (2 CFU); 3) “Chimica Inorganica Applicata” al 3° anno della Laurea in Chimica (4 CFU). (in the academic year 2007/2008).
- Teacher of the courses: 1) ‘Chimica dei Materiali Inorganici e Laboratorio’ al 3° anno della Laurea in Chimica (5 CFU); 2) Modulo nel corso di “Chimica” al 1° anno della Laurea Specialistica in Scienze per il recupero e la conservazione del patrimonio archeologico (2 CFU); 3) “Chimica Inorganica Applicata” al 3° anno della Laurea in Chimica (4 CFU). 4) Modulo di laboratorio nel corso di “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (3 CFU). (in the academic year 2008/2009).
- Teacher of the courses: 1) ‘Chimica dei Materiali Inorganici e Laboratorio’ al 3° anno della Laurea in Chimica (5 CFU). 2) “Chimica Inorganica Applicata” al 3° anno della Laurea in Chimica (4 CFU). 3) Modulo di laboratorio nel corso di “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (3 CFU) (in the academic year 2009/2010).
- Tutor of the course: “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (48 ore) (in the academic year 2010/2011).
- Teacher of the course: “Chimica Inorganica Industriale e Ambientale” al 3° anno della Laurea in Chimica (L-27) (48 ore, 6CFU) and tutor of the course “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (48 ore, 3CFU). (in the academic year 2011/2012).

- Teacher of the courses: “Chimica Inorganica Industriale e Ambientale (48 ore, 6CFU)” al 3°anno and “Esercitazioni di Chimica (24 ore, 3CFU)” al 1° anno della Laurea in Chimica (L-27) and tutor of the course “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (48 ore, 3CFU). Teacher at TFA (Tirocini formativi attivi per la classe di concorso A013) (in the academic year **2012/2013**).
- Teacher of the courses: “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (60 ore, 6 CFU) and at PAS 2014 (Percorsi abilitanti speciali per le classi di concorso A013, A012 e C240) (in the academic year **2013/2014**).
- Teacher of the courses: “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (60 ore, 6CFU) and at TFA 2014-15 (Tirocini Formativi Abilitanti per le classi di concorso A013 e A012) (in the academic year **2013/2014**).
- Teacher of the courses: “Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (36 ore, 3CFU) and “Chimica” 8CFU 1° anno della Laurea in Scienze Naturali (64 ore) (in the academic year **2015/2016**).
- Teacher of the courses: “Laboratorio di Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (36 ore – 3CFU), and “Chimica” 8CFU 1° anno della Laurea in Scienze Naturali (64 ore). (in the academic year **2016/2017**).
- Teacher of the courses: “Laboratorio di Chimica Generale e Inorganica” al 1° anno della Laurea in Chimica (36 ore – 3CFU), “Chimica” 8 CFU al 1° anno della Laurea in Scienze Naturali (68 ore), Chimica Generale (8 ore, 1CFU) - “Chimica e Biochimica” nel CdL in Tecniche di Laboratorio Biomedico (from the academic years **2017/20185 to 2018/2019**).
- Teacher of the courses: “Chimica” 9 CFU al 1° anno della Laurea in Scienze Naturali (92 ore), Modulo di Chimica Generale (8 ore, 1CFU) - “Chimica e Biochimica” nel CdL in Tecniche di Laboratorio Biomedico, “Stato Solido” 6CFU (48 ore) al 2° della CdLM in Scienze Chimiche (in the academic year **2019/20-2021/22-2022/23**).
- Teacher of the courses: “Chimica” 9 CFU al 1° anno della Laurea in Scienze Naturali (92 ore), , “Chimica dei materiali ceramici e vetrosi tradizionali e avanzati” 6CFU (48 ore) al 2° della CdLM in Scienze Chimiche (in the academic year **2023/24-2025/26**).

SUPERVISION OF PhD STUDENTS AND POSTDOCTORAL FELLOWS

- GM has been supervisor of 6 PhD students.

ACADEMIC DUTIES

- Member of “Giunta del Dipartimento di Scienze Chimiche e Geologiche” 2015-2018, 2018-2021;
- Member of CP - Commissione paritetica del Dipartimento di Scienze Chimiche e Geologiche” 2018-2021
- President of the Degree Course in Chemistry and Chemical Sciences from the academic year 2021/2022 (from 1st November 2021)

AWARDS

- GM won the "best poster award" in the 9th World Biomaterials Congress (June 2012, Chengdoun, China), as a Co-author.
- The article entitled "Cerium-doped bioactive 45S5 glasses: spectroscopic, redox, bioactivity and biocatalytic properties" (Journal of Materials Science (2017) 52: 8845-8857) was selected from over 90 articles published in the volumes of the Journal of Materials Science as "August finalist" for the 2017 Cahn Prize (August 2017).
- GM won the "best oral presentation award” at the 19th International Conference on Chemistry and the Environment, Belgrade, Serbia, June 8-12, 2025, as co-author

MEMBERSHIPS AND APPOINTMENTS

- Member of the Division of Inorganic Chemistry of the Italian Chemical Society – SCI from 2002.
- Member of the Interuniversity Consortium of Science and Technology of Materials – INSTM from 2002
- Member of the Doctorate School ‘Multiscale Modelling, Computational Simulations and Characterization in Materials and Life Science – M2CSC’ of the University of Modena and Reggio Emilia (from the academic years 2005-2012)
- Member of the Doctorate School ‘Models and Methods for Materials and Environmental Sciences – M3ES’ of the University of Modena and Reggio Emilia (from the academic years 2013-2018 and 2020)

ORGANIZATION OF SCIENTIFIC MEETINGS AND SCHOOLS

- Member of the Scientific committee of the workshop Winter Modelling (Modena, 13-14 Marzo 2104).
- Member of the editorial board of “Biomedical Glasses” journal, publisher DE GRUYTER OPEN (2014-2021).
- Member of the editorial board of “Materials” journal, publisher MDPI.

ACTIVITIES IN REFERRED PROPOSAL and SCIENTIFIC JOURNALS.

Referee of international journal of inorganic and material chemistry: J. Non-Crystalline Solids, Acta Biomaterialia, Applied Surface Science, Materials Science and Engineering C (ed. Elsevier), Advanced Engineering Materials (ed. Wiley), Journal of the Royal Society Interface (ed. RSC), Journal of Physical Chemistry (ACS). Member of the Editorial Board and Guest Editor of Materials (MDPI)

I have been a referee for the grant proposals for the Executive Agency for Higher Education, Research - Development and Innovation Funding - Romanian Ministry of Education, Research, Youth and Sport (2011-2012, 2013-2014) and for Poland executive government agency of National Science Centre (Narodowe Centrum Nauki NCN; <http://www.ncn.gov.pl>) 2018.

SELECTED PRESENTATIONS

- *Oral communication at national congress*

1. XXX Congresso Nazionale di Chimica Inorganica, 15-19 Settembre 2002, Modena. CS-04: Na₂O-CaO-SiO₂-ZnO bioglasses: experimental and molecular dynamics simulation approach. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani.

2. XXI Congresso Nazionale della Società Chimica Italiana, 22-27 Giugno 2003, Torino. IN-CO-027: Rationalization of NMR data by MD simulation of amorphous system. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, P. Mustarelli.

3. XXII Congresso Nazionale della Società Chimica Italiana, 10-15 Settembre 2006, Firenze. INO-O-20: Potential bioactive phospho-silicate glasses doped with Ag and Ce prepared by sol-gel route. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, A. Pedone and U. Segre.

4. G.E.I.-E.R.A.2010-Giornate dell'Elettrochimica Italiana-Elettrochimica per il Recupero, Ambientale, 5-10 Settembre 2010, Modena. Study of self-diffusion process and ionic conduction of CaF₂-phosphosilicate bioglasses. **G. Malavasi**

5. XXIV Congresso Nazionale della Società Chimica Italiana, 11-16 Settembre 2011, Lecce. INO-OR-07: Novel smart bio-materials: bioactive glasses containing metal nano-particles conjugated with molecules of biological interests. **G. Malavasi**, G. Lusvardi, L. Menabue, E. Ferrari, M. Saladini, V. Aina, C. Morterra, E. Laurenti, L. Bergandi, D. Ghigo (eISBN 978-88-8305-085-5)

6. XLI Congresso Nazionale della Divisione di Chimica Inorganica, 3-6 Settembre 2013, Parma. OC9: Towards the controlled release of metal nanoparticles from biomaterials: physico-chemical, morphological and bioactivity features of Cu-containing sol gel glasses. **Malavasi Gianluca**, Aina Valentina, Cerrato Giuseppina, Martra Gianmario, Lusvardi Gigliola, Menabue Ledi

7. X Convegno Nazionale sulla Scienza e Tecnologia dei Materiali, 28 Giugno – 1 Luglio 2015, Favignana (TP), Oral 38: Catalytic bioactive glasses: catalase mimetic activity, an example. **G. Malavasi**.

8. XXVI Congresso della Società Chimica Italiana, 10-14 Settembre 2017, Paestum (SA), INO-OR47: V. Nicolini, **G. Malavasi**, L. Menabue, G. Lusvardi, F. Benedetti, S. Valeri, P. Luches “Mesoporous bioactive glasses doped with cerium: investigation of catalase and SOD mimetic activities, and bioactivity”

● *Oral communication at International conference*

1. 10th International Ceramic Congress & 3rd Forum on New Materials-CIMTEC2002, 14-18 July 2002, Firenze, Italy. SI-2: L08: Zinc addition sodium-calcium-silicate bioglasses. Theoretical vs experimental results. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani.

2. 10th International Conference of the Physics of Non-Crystalline Solids, 13-17 July 2003, Parma, Italy. O101: A combined experimental and computational approach to $(\text{Na}_2\text{O})_{1-x}\text{-CaO-(ZnO)}_x\text{-2SiO}_2$ ($x=0, 0.20, 0.60$ and 1) glasses characterization. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, U. Segre, M.M. Carnasciali.

3. 3rd International Conference of Computational Modelling and Simulation of Material, 30 May-4 June 2004, Acireale (Catania), Italy. B-1: L12: CaO and ZnO in soda-silicate glasses: a molecular dynamic simulation study. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani.

4. IX Conference & Exhibition of the European Ceramic Society, 19-23 June 2005, Portoroz, Slovenia. A-T-O-31: Density of multicomponent silica-based potential bioglasses: Quantitative Structure-Property Relationships (QSPR) analysis. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, A. Pedone, U. Segre.

5. XI International Congress on the Physics of Non-Crystalline Solids, 20 October – 2 November 2006, Rhodes, Greece. O-CM-2: Medium range order in phospho-silicate bioactive glasses: MAS NMR vs MD simulations. L. Linati, G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, P. Mustarelli, A. Pedone, U. Segre.

6. XII International Congress on the Physics of Non-Crystalline Solids, 10-13 September 2009, Iguacu Falls, Brazil. O115: Structural and Dynamical properties of CaF_2 -phosphosilicate glasses: an MD study. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, A. Pedone.

7. 8th European Conference on Computational Chemistry, 25-28 August 2010, Lund, Sweden. OC-pag.15: Bioactive phospho-silicate glasses: a molecular dynamics simulation study using rigid ion and core shell models. Franchini M., G. Lusvardi, L. Menabue, **G. Malavasi**, M.C. Menziani, A. Pedone

8. 2018 Glass and Optical Materials Division (GOMD) Meeting, 20-24 May 2018, San Antonio, Texas, USA GOMD-S2-011-2018 pag. 17: Bioactive glasses modified by oxides with potential enzymatic-like activities. **G. Malavasi**, L. Menabue, G. Lusvardi.

● *Invited oral communication*

1. Giornata della Chimica in Emilia Romagna, 12-13 Maggio 2003, Modena, Italy. Synthesis, characterization and computational simulation of inorganic amorphous systems. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani.

2. Innovation days 2005, 10-12 May 2005, Palazzo Astoria, Fiorano Modenese, Modena, Italy. Computational simulations in the ceramic field. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani.

3. Joint NIS Colloquium – Centro Scansetti, 11-12 January 2007, Torino, Italy. A new strategy for bioactive glasses development. G. Lusvardi, **G. Malavasi**, L. Menabue, M.C. Menziani, A. Pedone, U. Segre.

4. 2° Forum Nazionale dei Giovani Ricercatori di Scienza e Ingegneria dei Materiali, 3-6 June 2008, Genova, Italy. Elucidation of the Structural Role of Fluorine in Potentially Bioactive Glasses by Experimental and Computational Investigation. **G. Malavasi**

5. NIS Colloquia "Advances in biomaterials: combining simulations and experiments", November 28-29, 2013, Torino, Italy. Bioactive glasses for a “smart” release. **G. Malavasi**.

6. 8ª Conferenza Chimica Sostenibile - Federchimica “Chimica, scienza e industria insieme”, 21 aprile 2021. “Sviluppo di nuove formulazioni per il trattamento superficiale di gres porcellanato: sinergia tra Zschimmer & Schwarz Ceramco e il Dipartimento di Scienze Chimiche e Geologiche – UNIMORE” - Roberto Ferrari e **Gianluca Malavasi**.

OTHER INFORMATION

BIBLIOMETRIC INDICATORS

From 2002 GM has published 103 papers on national and international journal (with ISSN) and books (with ISBN):

- **91** on **ISI Web** with h_index **37**, Sum of Times Cited **4436**, update 02/09/2025;
- **89** on **SCOPUS** with h_index **37**, Sum of Times Cited **4635**, update 17/01/2025;
- **100** in **SCHOLAR GOOGLE** with h_index **42** (i10-index 80), Sum of Times Cited **6281**, update al 08/01/2026.

TECHNOLOGICAL TRANSFER

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PUBLIC ENGAGEMENT

GM is involved in the Progetto Nazionale di Chimica del Piano Lauree Scientifiche (Modena local unit) from 2005.

LIST OF SCIENTIFIC PUBLICATIONS ON INTERNATIONAL JOURNALS

N°	Years	Papers on Journals
91	2025	<p>Martina Napolitano, Gianluca Malavasi,^c Daniele Malferrari, Giulio Galamini, Michelina Catauro, Veronica Viola, Fabrizio Marani, Luisa Barbieri</p> <p>A New High-efficiency Fertilization System from Waste Materials for Soil Protection: Material Engineering, Chemical-Physical Characterization, Antibacterial and Agronomic Performances</p> <p><i>Materials</i>, 18, 3492.</p> <p>ISSN 1996-1944 https://doi.org/10.3390/ma18153492 I.F.3.2</p>
90	2025	<p>Galamini Giulio, Altimari Fabiana, Barbieri Luisa, Malavasi Gianluca, Malferrari Daniele</p> <p>Potential of pumice scraps compared to zeolitized tuff for Mn²⁺ release in agricultural applications</p> <p><i>Microporous and Mesoporous Materials</i>, 396, 113704</p> <p>Print ISSN: 1387-1811 Online ISSN: 1873-3093</p> <p>https://doi.org/10.1016/j.micromeso.2025.113704 I.F. 4.8</p>
89	2024	<p>Francesco Colombo, Riccardo Fantini, Francesco Di Renzo, Gianluca Malavasi, Daniele Malferrari, Rossella Arletti</p> <p>An insight into REEs recovery from spent fluorescent lamps: evaluation of the affinity of an NH₄-13X zeolite towards Ce, La, Eu and Y</p> <p><i>Waste Management</i>, 175, 339-347</p> <p>ISSN: 0956-053X https://doi.org/10.1016/j.wasman.2024.01.023 I.F. 8.100</p>
88	2024	<p>Debora Carrozza, Erika Ferrari, Gianluca Malavasi^c</p> <p>Very large pores mesoporous bioactive silicate glasses: comparison behaviour toward classical mesoporous bioactive glasses in term of drug loading/release and bioactivity</p> <p><i>Materials</i>, 17, 373.</p> <p>ISSN: 1996-1944 https://doi.org/10.3390/ma17020373 I.F. 3.748</p>
87	2024	<p>Matteo Abati, Altair T. Contreras Jaimes, Luca Rigamonti, Debora Carrozza, Gigliola Lusvardi, Delia S. Brauer, Gianluca Malavasi^c</p> <p>Assessing Mn as an antioxidant agent in bioactive glasses by quantification of catalase and superoxide dismutase enzymatic mimetic activities</p>

		<p><i>Ceramics International</i>, 50, (2, Part A), 2574-2587. ISSN: 0272-8842 https://doi.org/10.1016/j.ceramint.2023.10.091 I.F. 5.532</p>
86	2023	<p>Debora Carrozza, Gianluca Malavasi,[§] Erika Ferrari Very large pores mesoporous silica as new candidate for delivery of big therapeutics molecules, such as pharmaceutical peptides <i>Materials</i>, 16, 4151. ISSN:1996-1944 https://doi.org/10.3390/ma16114151. I.F. 3.748</p>
85	2023	<p>Maria Cristina Menziani, Debora Carrozza, Gianluca Malavasi,[§] Erika Ferrari Alginate beads containing Cerium-doped mesoporous glass and Curcumin: delivery and stabilization of therapeutics <i>International Journal of Molecular Sciences</i>, 2023, 24, 880. ISSN: 1422-0067 https://doi.org/10.3390/ijms24010880 I.F. 6.208</p>
84	2022	<p>Matteo Mari, Debora Carrozza, Gianluca Malavasi, Ettore Venturi, Giulia Avino, Pier Cesare Capponi, Michele Iori, Sara Rubagotti, Silvia Belluti, Mattia Asti and Erika Ferrari Curcumin-Based Diketo Ligands for Ga³⁺: Thermodynamic Investigation of Potential Metal-Based Drugs <i>Pharmaceuticals</i>, 15, 854. https://doi.org/10.3390/ph15070854 I.F. 5.215</p>
83	2022	<p>Gianluca Malavasi, Alfonso Pedone The Effect of the Incorporation of Catalase Mimetic Activity Cations on the Structural, Thermal and Chemical Durability Properties of the 45S5 Bioglass® <i>Acta Materialia</i>, 229, 117801. ISSN: 1359-6454 http://doi.org/10.1016/j.actamat.2022.117801 I.F. 8.203</p>
82	2021	<p>Alfonso Zambon, Gianluca Malavasi, Annalisa Pallini, Francesca Fraulini, and Gigliola Lusvardi Cerium Containing Bioactive Glasses: A Review <i>ACS Biomater. Sci. Eng.</i>, 7(9), 4388–4401. ISSN: 2373-9878 https://doi.org/10.1021/acsbiomaterials.1c00414 I.F. 4.749</p>
81	2020	<p>Gianluca Malavasi,[§] Gigliola Lusvardi</p>

		<p>Composition and morphology effects on catalase mimetic activity of potential bioactive glasses</p> <p><i>Ceramics International</i>, 46, 25854-25864.</p> <p>ISSN: 0272-8842 doi:10.1016/j.ceramint.2020.07.067 I.F. 3.830</p>
80	2020	<p>Francesco Ronchetti, Leonardo Piccinini, Manuela Deiana, Giuseppe Ciccarese, Valentina Vincenzi, Alessandro Aguzzoli, Gianluca Malavasi, Paolo Fabbri, Alessandro Corsini</p> <p>Tracer test to assess flow and transport parameters of an earth slide: the Montecagno landslide case study (Italy)</p> <p><i>Engineering Geology</i>, 275, 105749.</p> <p>ISSN: 0013-7952 doi:10.1016/j.enggeo.2020.105749 I.F. 3.909</p>
79	2020	<p>Alexandre Anesi, Gianluca Malavasi, Luigi Chiarini, Roberta Salvatori, Gigliola Lusvardi</p> <p>Cell evaluation of enduring self-regenerative antioxidant activity of cerium doped bioactive glasses</p> <p><i>Materials</i>, 13(10), 2297.</p> <p>ISSN:1996-1944 doi:10.3390/ma13102297 I.F. 3.057</p>
78	2019	<p>Luca Rigamonti, Alessandra Forni, Elena Cariati, Gianluca Malavasi, Alessandro Pasini</p> <p>Solid-State Nonlinear Optical Properties of Mononuclear Copper (II) Complexes with Chiral Tridentate and Tetradentate Schiff Base Ligands</p> <p><i>Materials</i>, 12(21), 3595.</p> <p>ISSN:1996-1944 doi:10.3390/ma12213595 I.F. 3.057</p>
77	2019	<p>E. Varini, S. Sánchez-Salcedo, G. Malavasi, G. Lusvardi, M. Vallet-Regí, A.J. Salinas</p> <p>Cerium (III) and (IV) containing mesoporous glasses/alginate beads for bone regeneration: bioactivity, biocompatibility and reactive oxygen species activity</p> <p><i>Materials Science & Engineering C</i>, 105, 109971.</p> <p>ISSN: 0928-4931 doi:10.1016/j.msec.2019.109971 I.F. 5.880</p>
76	2019	<p>Valentina Nicolini, Gianluca Malavasi, Gigliola Lusvardi, Alfonso Zambon, Francesco Benedetti, Giuseppina Cerrato, Sergio Valeri, Paola Luches</p>

		Mesoporous bioactive glasses doped with cerium: investigation over enzymatic-like mimetic activities and bioactivity <i>Ceramics International</i> , 45 (16), 20910-20920. ISSN: 0272-8842 doi:10.1016/j.ceramint.2019.07.080 I.F. 3.830
75	2019	Gianluca Malavasi,⁶ Roberta Salvatori, Alfonso Zambon, Gigliola Lusvardi, Luca Rigamonti, Luigi Chiarini and Alexandre Anesi Cytocompatibility of Potential Bioactive Cerium-Doped Glasses based on 45S5 <i>Materials</i> , 12(4), 594. ISSN:1996-1944 doi:10.3390/ma12040594 I.F. 3.057
74	2019	Andrea Silvestri, Maria Laura Ligabue, Gianluca Malavasi and Gigliola Lusvardi Preparation and Luminescence Properties of Ba ₅ Si ₈ O ₂₁ Long Persistent Phosphors Doped with Rare-Earth Elements <i>Materials</i> , 12, 183. ISSN:1996-1944 doi:10.3390/ma12010183 I.F. 3.057
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I.F.= Impact Factor (ISI)

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BOOK CHAPTERS (WITHOUT IF, national and international)

N°	Years	Papers on books
12	2025	<p>M. Napolitano, L. Barbieri, I. Lancellotti, G. Santunione, E. Sgarbi, F. Petrigliano, F. Zanardi, A. Bigi and G. Malavasi</p> <p>Bioremediation of high-nitrated nitrocellulose waste: A sustainable approach for environmental degradation at an industrial site</p> <p>In IVANČEV-TUMBAS, Ivana (ed.), BEŠKOSKI, Vladimir P. (ed.). 19th International Conference on Chemistry and the Environment - ICCE 2025: Environmental chemistry for sustainability: e-book of abstracts: Belgrade, Serbia, June 8-12, 2025. Serbian Chemical Society, 2025. Str. 67.</p> <p>ISBN 978-86-7132-088-7</p>
11	2019	<p>Cipriani A, Lugli F, Frank G.A. Verheijen, Daniele Brunelli, Andrea Marchetti, Gianluca Malavasi</p> <p>Le analisi di fosforo ed elementi leggeri nei suoli</p> <p>In “Una sosta lungo la via Emilia, tra selve e paludi. La mansio di Forum Gallorum a Castelfranco Emilia” (eds. S. Campagnari, F. Foroni, D. Neri, Nuova Tipografia), Volume 12 di DEA - documenti ed evidenze di archeologia, pp. 207-210.</p> <p>ISBN 978-8897550-76-1</p>
10	2013	<p>F.E. Imrie, V. Aina, G. Lusvardi, G. Malavasi, I.R. Gibson, G. Cerrato, B. Annaz</p> <p>Synthesis and Characterisation of Strontium and Magnesium Co-Substituted Biphasic Calcium Phosphates</p> <p>In Key Engineering Materials Vol. 529-530 (Bioceramics 24), pp. 88-93. ISBN:978-3-03785-517-1(print) / 978-3-03795-323-5 (cd) /978-3-03813-437-4 (e-book)</p>
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Signed

