



## Elenco dei titoli e delle pubblicazioni scientifiche

### Settore Concorsuale:09/D3 - IMPIANTI E PROCESSI INDUSTRIALI CHIMICI Prima Fascia

**Alberto BERTUCCO**

#### Posizione accademica

Settore Scientifico Disciplinare:	ING-IND/25 - Impianti chimici
Qualifica:	Professore Ordinario
Anzianità nel ruolo:	01/11/1999
Sede Universitaria:	Università degli Studi di PADOVA
Struttura di afferenza (dipartimento o altro):	INGEGNERIA INDUSTRIALE - DII

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
30/04/1983	Ricercatore Universitario	Università degli Studi di PADOVA
01/11/1992	Professore II Fascia	Università degli Studi di PADOVA
01/11/1999	Professore I Fascia	Università degli Studi di PADOVA

## Pubblicazioni scientifiche

1	2018	<p>Articolo in rivista de Farias Silva, Carlos Eduardo, Bertucco, Alberto (2018). A Two-Stage System for the Large-Scale Cultivation of Biomass: a Design and Operation Analysis Based on a Simple Steady-State Model Tuned on Laboratory Measurements. BIOENERGY RESEARCH, vol. 11, p. 398-413, ISSN: 1939-1234, doi: 10.1007/s12155-018-9905-4</p>
2	2018	<p>Articolo in rivista Negi, Arvind Singh, Cortesi, Angelo, Kikic, Ireneo, Bertucco, Alberto, Calabrese, Massimo, Solinas, Dario (2018). Desorption of artemisinin extracts of CIM-Arogya by supercritical carbon dioxide. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 133, p. 42-48, ISSN: 0896-8446, doi: 10.1016/j.supflu.2017.09.024</p>
3	2018	<p>Articolo in rivista Barbera, Elena, Bertucco, Alberto, Kumar, Sandeep (2018). Nutrients recovery and recycling in algae processing for biofuels production. RENEWABLE &amp; SUSTAINABLE ENERGY REVIEWS, vol. 90, p. 28-42, ISSN: 1364-0321, doi: 10.1016/j.rser.2018.03.004</p>
4	2018	<p>Articolo in rivista de Farias Silva, Carlos Eduardo, Sforza, Eleonora, Bertucco, Alberto (2018). Stability of carbohydrate production in continuous microalgal cultivation under nitrogen limitation: effect of irradiation regime and intensity on Tetrademus obliquus. JOURNAL OF APPLIED PHYCOLOGY, vol. 30, p. 261-270, ISSN: 0921-8971, doi: 10.1007/s10811-017-1252-x</p>
5	2018	<p>Articolo in rivista Saleem, Mubbshir, Spagni, Alessandro, Alibardi, Luca, Bertucco, Alberto, Lavagnolo, Maria Cristina (2018). Assessment of dynamic membrane filtration for biological treatment of old landfill leachate. JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol. 213, p. 27-35-35, ISSN: 0301-4797, doi: 10.1016/j.jenvman.2018.02.057</p>
6	2018	<p>Articolo in rivista de Farias Silva, Carlos Eduardo, Meneghello, Davide, Bertucco, Alberto (2018). A systematic study regarding hydrolysis and ethanol fermentation from microalgal biomass. BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol. 14, p. 172-182, ISSN: 1878-8181, doi: 10.1016/j.bcab.2018.02.016</p>

7	2018	Articolo in rivista de Farias Silva, Carlos Eduardo, Bertucco, Alberto (2018). Severity Factor as an Efficient Control Parameter to Predict Biomass Solubilization and Saccharification During Acidic Hydrolysis of Microalgal Biomass. BIOENERGY RESEARCH, vol. 11, p. 491-504, ISSN: 1939-1234, doi: 10.1007/s12155-018-9913-4
8	2017	Articolo in rivista Barbera, Elena, Sforza, Eleonora, Guidobaldi, Andrea, Di Carlo, Aldo, Bertucco, Alberto (2017). Integration of dye-sensitized solar cells (DSC) on photobioreactors for improved photoconversion efficiency in microalgal cultivation. RENEWABLE ENERGY, vol. 109, p. 13-21, ISSN: 0960-1481, doi: 10.1016/j.renene.2017.03.013
9	2017	Articolo in rivista Gris Barbara, Sforza Eleonora, Morosinotto Tomas, Bertucco Alberto, la Rocca Nicoletta (2017). Influence of light and temperature on growth and high-value molecules productivity from Cyanobacterium aponinum. JOURNAL OF APPLIED PHYCOLOGY, p. 1-10, ISSN: 0921-8971, doi: 10.1007/s10811-017-1133-3
10	2017	Articolo in rivista Carlos Eduardo de Farias Silva, Alberto Bertucco (2017). Dilute acid hydrolysis of microalgal biomass for bioethanol production: an accurate kinetic model of biomass solubilizaion, sugars hydrolysis and nitrogen/ash balance. REACTION KINETICS, MECHANISMS AND CATALYSIS, vol. 122, p. 1095-1114, ISSN: 1878-5190, doi: 10.1007/s11144-017-1271-2
11	2017	Articolo in rivista Teymouri Ali, Kumar Sandeep, Barbera Elena, Sforza Eleonora, Bertucco Alberto, Morosinotto Tomas (2017). Integration of biofuels intermediates production and nutrients recycling in the processing of a marine algae. AIChE JOURNAL, vol. 63, p. 1494-1502, ISSN: 0001-1541, doi: 10.1002/aic.15537
12	2017	Articolo in rivista Carlos Eduardo de Farias Silva, Alberto Bertucco (2017). Bioethanol from microalgae and cyanobacteria: a review and technological outlook. PROCESS BIOCHEMISTRY, p. 1833-1842, ISSN: 1359-5113, doi: 10.1016/j.procbio.2016.02.016
13	2017	Articolo in rivista SFORZA, ELEONORA, BARBERA, ELENA, GIROTTO, FRANCESCA, COSSU, RAFFAELLO, BERTUCCO, ALBERTO (2017). Anaerobic digestion of lipid-extracted microalgae: Enhancing nutrient recovery towards a closed loop recycling. BIOCHEMICAL ENGINEERING JOURNAL, vol. 121, p. 139-146, ISSN: 1369-703X, doi: 10.1016/j.bej.2017.02.004

14	2017	<p>Articolo in rivista</p> <p>Barbera, Elena, Sforza, Eleonora, Vecchiato, Luca, Bertucco, Alberto (2017). Energy and economic analysis of microalgae cultivation in a photovoltaic-assisted greenhouse: <i>Scenedesmus obliquus</i> as a case study. ENERGY, vol. 140, p. 116-124, ISSN: 0360-5442, doi: 10.1016/j.energy.2017.08.069</p>
15	2017	<p>Articolo in rivista</p> <p>Barbera, Elena, Teymouri, Ali, Bertucco, Alberto, Stuart, Ben J., Kumar, Sandeep (2017). Recycling Minerals in Microalgae Cultivation through a Combined Flash Hydrolysis-Precipitation Process. ACS SUSTAINABLE CHEMISTRY &amp; ENGINEERING, vol. 5, p. 929-935, ISSN: 2168-0485, doi: 10.1021/acssuschemeng.6b02260</p>
16	2017	<p>Articolo in rivista</p> <p>Carlos Eduardo de Farias Silva, Eleonora Sforza, Alberto Bertucco (2017). Effects of pH and carbon source on <i>Synechococcus</i> PCC 7002 cultivation: biomass and carbohydrate production with different strategies for pH control. APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 181, p. 682-698, ISSN: 0273-2289, doi: 10.1007/s12010-016-2241-2</p>
17	2017	<p>Contributo in Atti di convegno</p> <p>Carlos Eduardo de Farias Silva, Eleonora Sforza, Alberto Bertucco (2017). Continuous cultivation of microalgae as an efficient method to improve carbohydrate productivity and biochemical stability. In: Annals of 25th European Biomass Conference and Exhibition. p. 319-324, Stockholm Sweden, 12-15 June 2017</p>
18	2016	<p>Articolo in rivista</p> <p>Solana, M., Teel, J., Hojilla-Evangelista, M., Bertucco, A., Eller, F. (2016). Counter-current carbon dioxide extraction of fat from soy skim. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 113, p. 106-111, ISSN: 0896-8446, doi: 10.1016/j.supflu.2016.03.022</p>
19	2016	<p>Articolo in rivista</p> <p>Solana, Miriam, Qureshi, Nasib, Bertucco, Alberto, Eller, Fred (2016). Recovery of butanol by counter-current carbon dioxide fractionation with its potential application to butanol fermentation. MATERIALS, vol. 9, 530, ISSN: 1996-1944, doi: 10.3390/ma9070530</p>
20	2016	<p>Articolo in rivista</p> <p>Barbera Elena, Sforza Eleonora, Kumar Sandeep, Morosinotto Tomas, Bertucco Alberto (2016). Cultivation of <i>Scenedesmus obliquus</i> in liquid hydrolysate from flash hydrolysis for nutrient recycling. BIORESOURCE TECHNOLOGY, vol. 207, p. 59-66, ISSN: 0960-8524, doi: 10.1016/j.biortech.2016.01.103</p>

21	2016	<p>Articolo in rivista</p> <p>Pedro André São, Villa Stefania Dalla, Caliceti Paolo, De Melo Silvio A.B. Vieira, Albuquerque Elaine Cabral, Bertucco Alberto, Salmaso Stefano (2016). Curcumin-loaded solid lipid particles by PGSS technology. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 107, p. 534-541, ISSN: 0896-8446, doi: 10.1016/j.supflu.2015.07.010</p>
22	2016	<p>Articolo in rivista</p> <p>Carlos Eduardo de Farias Silva, Barbara Gris, Alberto Bertucco (2016). Simulation of microalgal growth in a continuous photobioreactor with sedimentation and partial biomass recycling. BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, p. 773-781, ISSN: 0104-6632</p>
23	2016	<p>Articolo in rivista</p> <p>DE FARIAS SILVA, CARLOS EDUARDO, Grisa, Barbara, SFORZA, ELEONORA, LA ROCCA, NICOLETTA, BERTUCCO, ALBERTO (2016). Effects of sodium bicarbonate on biomass and carbohydrate production in synechococcus PCC 7002. CHEMICAL ENGINEERING TRANSACTIONS, vol. 49, p. 241-246, ISSN: 2283-9216, doi: 10.3303/CET1649041</p>
24	2016	<p>Articolo in rivista</p> <p>Solana, M., Mirofci, S., Bertucco, A. (2016). Production of phenolic and glucosinolate extracts from rocket salad by supercritical fluid extraction: Process design and cost benefits analysis. JOURNAL OF FOOD ENGINEERING, vol. 168, p. 35-41, ISSN: 0260-8774, doi: 10.1016/j.jfoodeng.2015.07.017</p>
25	2016	<p>Abstract in Atti di convegno</p> <p>MORO, FEDERICO, BERTUCCO, ALBERTO, GIOMO, MONICA, GUARNIERI, MASSIMO (2016). A Multi-dimensional Vanadium Redox Flow Batteries Performance Model accounting for species crossover. In: EMN Meeting on Batteries. Orlando USA-FL, 21-25 Feb, 2017</p>
26	2015	<p>Articolo in rivista</p> <p>Sforza, Eleonora, Barbera, Elena, Bertucco, Alberto (2015). Improving the photoconversion efficiency: An integrated photovoltaic-photobioreactor system for microalgal cultivation. ALGAL RESEARCH, vol. 10, p. 202-209, ISSN: 2211-9264, doi: 10.1016/j.algal.2015.05.005</p>
27	2015	<p>Articolo in rivista</p> <p>Sforza Eleonora, Calvaruso Claudio, Meneghesso Andrea, Morosinotto Tomas, Bertucco Alberto (2015). Effect of specific light supply rate on photosynthetic efficiency of Nannochloropsis salina in a continuous flat plate photobioreactor. APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol. 99, p. 8309-8318, ISSN: 0175-7598, doi: 10.1007/s00253-015-6876-7</p>

28	2015	<p>Articolo in rivista</p> <p>Solana M., Boschiero I., Dall'Acqua S., Bertucco A. (2015). A comparison between supercritical fluid and pressurized liquid extraction methods for obtaining phenolic compounds from <i>Asparagus officinalis</i> L. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 100, p. 201-208, ISSN: 0896-8446, doi: 10.1016/j.supflu.2015.02.014</p>
29	2015	<p>Articolo in rivista</p> <p>Barbera, Elena, Sforza, Eleonora, Bertucco, Alberto (2015). Maximizing the production of <i>Scenedesmus obliquus</i> in photobioreactors under different irradiation regimes: Experiments and modeling. BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol. 38, p. 2177-2188, ISSN: 1615-7591, doi: 10.1007/s00449-015-1457-9</p>
30	2015	<p>Articolo in rivista</p> <p>Sforza, Eleonora, Khairallah Al Emara, Mohammed-Hassan, Sharif, Adel, Bertucco, Alberto (2015). Exploitation of urban landfill leachate as nutrient source for microalgal biomass production. CHEMICAL ENGINEERING TRANSACTIONS, vol. 43, p. 373-378, ISSN: 2283-9216, doi: 10.3303/CET1543063</p>
31	2015	<p>Articolo in rivista</p> <p>BERTUCCO, ALBERTO, SFORZA, ELEONORA, FIORENZATO, VALENTINA, STRUMENDO, MATTEO (2015). Population balance modeling of a microalgal culture in photobioreactors: comparison between experiments and simulations. AICHE JOURNAL, vol. 61, p. 2702-2710, ISSN: 0001-1541, doi: 10.1002/aic.14893</p>
32	2015	<p>Contributo in Atti di convegno</p> <p>Moro F., Bertucco A., Fiorenzato V., Giomo M., Guarnieri M. (2015). Multiphysics Finite-Element Modelling of an All-Vanadium Redox Flow Battery for Stationary Energy Storage. In: Proc. Coupled Problems 2015 VI International Conference on Computational Methods for Coupled Problems in Science and Engineering. p. 416-427, INT CENTER NUMERICAL METHODS ENGINEERING, GRAN CAPITAN, S-N, CAMPUS NORTE UPC, MODULO C1, 08034 BARCELONA, SPAIN, Venice, Italy, 18-20 May, 2015</p>
33	2015	<p>Abstract in Atti di convegno</p> <p>Maggiolo Dario, Fauri Davide, Lio Stefano Da, Bertucco Alberto, Davide Del Col, Guarnieri Massimo (2015). A low-losses topology for VRFB stacks. In: 228th ECS Meeting Abstracts. p. 549, The Electrochemical Society, Phoenix (AZ-US), 11-16/10/2015</p>
34	2015	<p>Abstract in Atti di convegno</p> <p>Guarnieri Massimo, Moro Federico, Bertucco Alberto, Fiorenzato Valentina, Giomo Monica (2015). A Multiphysics Finite-Element Performance Model of a Vanadium Redox Flow Battery. In: 228th ECS Meeting Abstracts. p. 417, The Electrochemical Society, Phoenix (AZ-US), 11-16/10/2015</p>

35	2014	<p>Articolo in rivista</p> <p>Gris B, Morosinotto T, Giacometti GM, Bertucco A, Sforza E (2014). Cultivation of <i>Scenedesmus obliquus</i> in Photobioreactors: Effects of Light Intensities and Light-Dark Cycles on Growth, Productivity, and Biochemical Composition.. APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 172, p. 2377-2389, ISSN: 0273-2289, doi: 10.1007/s12010-013-0679-z</p>
36	2014	<p>Articolo in rivista</p> <p>D. Hernández, M. Solana, B. Riaño, M.C. García-González, A. Bertucco (2014). Biofuels from microalgae: Lipid extraction and methane production from the residual biomass in a biorefinery approach. BIORESOURCE TECHNOLOGY, vol. 170, p. 370-378, ISSN: 0960-8524, doi: 10.1016/j.biortech.2014.07.109</p>
37	2014	<p>Articolo in rivista</p> <p>M. Solana, C.S. Rizza, A. Bertucco (2014). Exploiting microalgae as a source of essential fatty acids by supercritical fluid extraction of lipids: Comparison between <i>Scenedesmus obliquus</i>, <i>Chlorella protothecoides</i> and <i>Nannochloropsis salina</i>. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 92, p. 311-318, ISSN: 0896-8446, doi: 10.1016/j.supflu.2014.06.013</p>
38	2014	<p>Articolo in rivista</p> <p>M. Solana, I. Boschiero, S. Dall'Acqua, A. Bertucco (2014). Extraction of bioactive enriched fractions from <i>Eruca sativa</i> leaves by supercritical CO<sub>2</sub> technology using different co-solvents. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 94, p. 245-251, ISSN: 0896-8446, doi: 10.1016/j.supflu.2014.08.022</p>
39	2014	<p>Articolo in rivista</p> <p>E. A. Ramos, L. Alibardi, R. Cossu, A. Bertucco (2014). Anaerobic Digestion of Microalgal Residues to Enhance the Energetic Profit of Biocrude Production. CHEMICAL ENGINEERING TRANSACTIONS, vol. 37, p. 793-798, ISSN: 2283-9216, doi: 10.3303/CET1437133</p>
40	2014	<p>Articolo in rivista</p> <p>Giovanna Ferrentino, Nicola Calliari, Alberto Bertucco, Sara Spilimbergo (2014). Validation of a mathematical model for predicting high pressure carbon dioxide inactivation kinetics of <i>Escherichia coli</i> spiked on fresh cut carrot. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 85, p. 17-23, ISSN: 0896-8446, doi: 10.1016/j.supflu.2013.10.015</p>
41	2014	<p>Articolo in rivista</p> <p>E. Sforza, E. A. Ramos-Tercero, B. Gris, F. Bettin, A. Milani, A. Bertucco (2014). Integration of <i>Chlorella protothecoides</i> production in wastewater treatment plant: From lab measurements to process design. ALGAL RESEARCH, vol. 6, Part B, p. 223-233, ISSN: 2211-9264, doi: 10.1016/j.algal.2014.06.002</p>

42	2012	Articolo in rivista SFORZA E, BERTUCCO A, T. MOROSINOTTO, GM GIACOMETTI (2012). Photobioreactors for microalgal growth and oil production with <i>Nannochloropsis salina</i> : from lab-scale experiments to large-scale design. CHEMICAL ENGINEERING RESEARCH & DESIGN, vol. 90, p. 1151-1158, ISSN: 0263-8762, doi: 10.1016/j.cherd.2011.12.002
43	2012	Articolo in rivista Sforza E, Simionato D, Giacometti GM, Bertuccio A, Morosinotto T (2012). Adjusted light and dark cycles can optimize photosynthetic efficiency in algae growing in photobioreactors.. PLOS ONE, vol. 7, ISSN: 1932-6203, doi: 10.1371/journal.pone.0038975
44	2012	Articolo in rivista SFORZA E, CIPRIANI R, T. MOROSINOTTO, BERTUCCO A, GIACOMETTI GM (2012). Excess CO <sub>2</sub> supply inhibits mixotrophic growth of <i>Chlorella protothecoides</i> and <i>Nannochloropsis salina</i> . BIORESOURCE TECHNOLOGY, vol. 104, p. 523-529, ISSN: 0960-8524, doi: 10.1016/j.biortech.2011.10.025
45	2012	Contributo in Atti di convegno S. Spilimbergo, G. Ferrentino, S. Balzan, A. Bertuccio (2012). Supercritical CO <sub>2</sub> inactivation on solid materials. In: Proceedings of 10th International Meeting on Supercritical Fluids. [Nd]:M. Perrut, San Francisco, CA, USA, Maggio 2012
46	2012	Contributo in Atti di convegno Simionato D, Sforza E, Giacometti GM, Bertuccio A, Finazzi G, Morosinotto T. (2012). The link between photosynthetic efficiency and productivity in <i>Nannochloropsis</i> cultures. In: Abstract 2nd International Conference on Algal Biomass.
47	2011	Articolo in rivista DI NOTO, VITO, VEZZU', KETI, GIFFIN, GUINEVERE, CONTI, FOSCA, BERTUCCO, ALBERTO (2011). Effect of High Pressure CO <sub>2</sub> on the Structure of PMMA: A FT-IR Study. THE JOURNAL OF PHYSICAL CHEMISTRY. B, vol. 115, p. 13519-13525, ISSN: 1520-5207, doi: 10.1021/jp207917n
48	2011	Articolo in rivista G. Bertoloni, A. Bertuccio, M. Rassu, K. Vezzù (2011). Medical device disinfection by dense carbon dioxide. THE JOURNAL OF HOSPITAL INFECTION, vol. 77, p. 42-46, ISSN: 0195-6701, doi: 10.1016/j.jhin.2010.09.020
49	2011	Articolo in rivista Giada Franceschin, Maria Sudiro, Thomas Ingram, Irina Smirnova, Gerd Brunner, Alberto Bertuccio (2011). Conversion of rye straw into fuel and xylitol: a technical and economical assessment based on experimental data. CHEMICAL ENGINEERING RESEARCH AND DESIGN, vol. 89, p. 631-640, ISSN: 1744-3563, doi: 10.1016/j.cherd.2010.11.001



50	2011	Articolo in rivista DI NOTO, VITO, VEZZU', KETI, CONTI, FOSCA, GIFFIN, GUINEVERE, LAVINA, SANDRA, BERTUCCO, ALBERTO (2011). Broadband Electric Spectroscopy at High CO2 Pressure: Dipole Moment of CO2 and Relaxation Phenomena of the CO2-Poly(vinyl chloride) System. JOURNAL OF PHYSICAL CHEMISTRY. B, CONDENSED MATTER, MATERIALS, SURFACES, INTERFACES & BIOPHYSICAL, vol. 115, p. 9014-9021, ISSN: 1520-6106, doi: 10.1021/jp2043448
51	2011	Articolo in rivista Fabio Ruggeri, Maria Sudiro, Inida Papa, Alessia Gallio, Alberto Bertucco, Marco Fontana (2011). New Process Concept for H2S Capture from Syngas. ENERGY & FUELS, ISSN: 0887-0624, doi: 10.1021/ef200996g
52	2011	Articolo in rivista SIMIONATO D, SFORZA E, CORTEGGIANI-CARPINELLI E, BERTUCCO A, GIACOMETTI GM, T. MOROSINOTTO (2011). Acclimation of Nannochloropsis gaditana to different illumination regimes: effects on lipids accumulation. BIORESOURCE TECHNOLOGY, vol. 102, p. 6026-6032, ISSN: 0960-8524, doi: 10.1016/j.biortech.2011.02.100
53	2011	Contributo in Atti di convegno Sforza E, Bertucco A, Morosinotto T, F. BEZZO, Giacometti GM (2011). Autotrophic growth of Nannochloropsis salina in a continuous photobioreactor. In: Proceedings ISAF XIX, Verona, 10-14 October 2011.
54	2011	Contributo in Atti di convegno Simionato D, Sforza E, Corteggiani-Carpinelli E, Bertucco A, Giacometti GM, Morosinotto T (2011). Investigating the connection between photosynthetic efficiency and lipids productivity in Nannochloropsis cultures.. In: International Conference on Algal Biomass.
55	2010	Articolo in rivista E. Sforza, A. Bertucco, T. Morosinotto, G.M. Giacometti (2010). Vegetal oil from microalgae: mixotrophic growth in view of large-scale production. JOURNAL OF BIOTECHNOLOGY, vol. 150, p. 16, ISSN: 0168-1656, doi: 10.1016/j.jbiotec.2010.08.057
56	2010	Articolo in rivista SUDIRO M, PELLIZZARO M, BEZZO, FABRIZIO, BERTUCCO, ALBERTO (2010). Simulated moving bed technology applied to coal gasification.. CHEMICAL ENGINEERING RESEARCH & DESIGN, vol. 88, p. 465-475, ISSN: 0263-8762, doi: 10.1016/j.cherd.2009.09.001
57	2010	Articolo in rivista SUDIRO M, C. ZANELLA, L. BRESSAN, M. FONTANA, BERTUCCO A. (2010). DUAL BED GASIFICATION OF PETCOKE: MODEL DEVELOPMENT AND VALIDATION. ENERGY & FUELS, vol. 24, p. 1213-1221, ISSN: 0887-0624

58	2010	Articolo in rivista TOFFOLETTO M, MERDAW AA, SHARIF AO, BERTUCCO A. (2010). Experimental approaches to feed solution permeability in pressure-driven membrane separation processes. JOURNAL OF MEMBRANE SCIENCE, vol. 364, p. 27-33, ISSN: 0376-7388
59	2010	Articolo in rivista VEZZU', KETI, BORIN D, BERTUCCO, ALBERTO, BERSANI, SARA, SALMASO, STEFANO, CALICETI, PAOLO (2010). Production of Lipid Microparticles Containing bioactive molecules Functionalized with PEG. THE JOURNAL OF SUPERCRITICAL FLUIDS, vol. 54, p. 328-334, ISSN: 0896-8446, doi: 10.1016/j.supflu.2010.05.013
60	2010	Contributo in volume (Capitolo o Saggio) Franceschin G, Favaron C, Bertucco A (2010). Waste paper as carbohydrate source for biofuel production: An experimental investigation. In: Pierucci S. 2nd International Conference on Industrial Biotechnology. CHEMICAL ENGINEERING TRANSACTIONS, vol. 20, p. 279-284, ISSN: 1974-9791
61	2010	Contributo in Atti di convegno Sudiro M, Bertucco A, Groppi G, Tronconi E (2010). Simulation of a structured catalytic reactor for exothermic methanation reactions producing synthetic natural gas. In: Pierucci S. 20TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING. vol. 28, p. 691-696
62	2009	Articolo in rivista SALMASO, STEFANO, BERSANI, SARA, ELVASSORE, NICOLA, BERTUCCO, ALBERTO, CALICETI, PAOLO (2009). Biopharmaceutical characterisation of insulin and recombinant human growth hormone loaded lipid submicron particles produced by supercritical gas micro-atomisation. INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol. 379, p. 51-58, ISSN: 0378-5173, doi: 10.1016/j.ijpharm.2009.06.014,
63	2009	Articolo in rivista BERTUCCO A., SUDIRO M (2009). PRODUCTION OF SYNTHETIC GASOLINE AND DIESEL FUELS BY ALTERNATIVE PROCESSES USING NATURAL GAS AND COAL: PROCESS SIMULATION AND OPTIMIZATION. ENERGY, vol. 34, p. 2206-2214, ISSN: 0360-5442
64	2009	Articolo in rivista SALMASO, STEFANO, ELVASSORE, NICOLA, BERTUCCO, ALBERTO, CALICETI, PAOLO (2009). Production of solid lipid submicron particles for protein delivery using a novel supercritical gas-assisted melting atomization process. JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 98, p. 640-650, ISSN: 0022-3549, doi: 10.1002/jps.21434
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## Titoli

### Direzione di enti o istituti di ricerca di alta qualificazione internazionale

- direttore del Dipartimento di Principi e Impianti di Ingegneria Chimica dell'Università di Padova dal 01-01-2001 al 30-09-2006
- direttore del Dipartimento di Principi e Impianti di Ingegneria Chimica dell'Università di Padova dal 01-10-2009 al 31-12-2011
- direttore del Centro Interdipartimentale "Giorgio Levi Cases" dell'Università di Padova dal 03-12-2013 a oggi

### Altri titoli che contribuiscano a una migliore definizione del profilo scientifico

- President of the Working Party "HIGH PRESSURE TECHNOLOGY" of the European Federation of Chemical Engineering dal 01-10-1996 al 30-09-2003

