

# STEFANO ALBERTI

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Italian citizenship



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## Education and Development

Research Grant on PO Region Liguria – FSE 2014/2020 – Code: RLOF18ASSRIC/32/1

Research Project: Antibacterial Membranes for treatment of surfaces and objects in high risk of contamination environments – November 2019/November 2021

University of Genova (GE)

Doctorate School of Science and Technology of Chemistry and Materials

Curriculum: Chemical Science and Technology - XXXII Cycle – November 2016/November 2019 - University of Genova (GE)

Thesis entitled: "Synthesis, characterization, optimization and application of  $\text{TiO}_2$ -based photocatalytic materials for environmental applications related to emerging pollution" was defended on the 20<sup>th</sup> of March 2020.

The thesis was evaluated as "Excellence CUM LAUDE", it was assigned with the "Doctor Europaeus" label and also assigned with the "International PhD on AOPs" label

Master's Degree in Chemical Science - September 2014/October 2016

University of Genova (GE)

Master in Chemical Sciences – Solid State Chemistry applied to Energy and Materials – degree grade: full marks and honor (110 out of 110, cum laude)

Bachelor's Degree in Chemistry and Chemical Technologies- September 2011/October 2014

University of Genova (GE)

Bachelor of Chemistry and Technological Chemistry – degree grade: full marks (110 out of 110)

Scientific High School Diploma – September 2006/June 2011

Scientific High School “G.D. Cassini” – Sanremo (IM)

Degree grade: full marks (100 out of 100)

## **Qualification**

### **Scientific Production:**

Citational profile:

- Scopus: h-index: 5; number of citations: 76; documents: 11  
Google scholar: h-index: 6; number of citations: 106; documents 14
- 7 oral presentations personally given in national and international conferences and 4 lesson for master students

### **Academic Publications:**

- An Up-To-Date Review on Alginate Nanoparticles and Nanofibers for Biomedical and Pharmaceutical Applications – A. Dodero\*, S. Alberti, G. Gaggero, M. Ferretti, R. Botter, S. Vicini, M. Castellano - accepted for publication in Advanced Materials Interfaces 2021 (IF 6.147 – Q2 Chemistry, Materials Science, Multidisciplinary)
- Experimental and Physico-Chemical Comparison of ZnO Nanoparticles' Activity for Photocatalytic Applications in Wastewater Treatment – S. Alberti\*, I. Basciu, M. Voccianti, M. Ferretti – Catalysts 2021, 11(6), 678 – DOI 10.3390/catal11060678 (IF 4.146 – Q2 Chemistry, Physical)
- Effect of distancing and pattern of breathing on the filtering capability of commercial and custom-made facial masks: an “in-vitro” study – L. Ball, S. Alberti\*, C. Belfortini, C. Almondo, C. Robba, D. Battaglini, C. Cravero, P. Pelosi, V. Caratto, M. Ferretti – PLoS ONE 2021 16(4): e0250432 – DOI 10.1371/journal.pone.0250432 (IF 3.240 – Q2 Multidisciplinary Sciences)
- Effect of sodium alginate molecular structure on electrospun membrane cell adhesion – A. Dodero, I. Donati, S. Scarfi, S. Mirata, S. Alberti, P. Lova, D. Comoretto, M. Alloisio, S. Vicini, M. Castellano\* – Materials Science & Engineering C 2021, 124, 112067 – DOI 10.1016/j.msec.2021.112067 (IF 7.328 – Q1 Materials Science, Biomaterials)
- Functional and morphological changes induced in Mytilus hemocytes by selected nanoparticles – M. Auguste\*, C. Mayall, F. Barbero, M. Hocevar, S. Alberti, G. Grassi,

V. Puntès, D. Drobne, L. Canesi – *Nanomaterials* 2021, 11, 470 – DOI 10.3390/nano11020470 (IF 5.076 – Q2 Chemistry, Multidisciplinary, Nanoscience & Nanotechnology)

- UV-254 degradation of nicotine in natural waters and leachates produced from cigarette butts and heat-not-burn tobacco products + Supplementary Material - S. Alberti, M. Sotiropoulou, E. Fernández, N. Solomou, M. Ferretti, E. Psillakis\* - *Environmental Research* 2021, 194, 110695 – DOI 10.1016/j.envres.2020.110695 (IF 6.498 – Q1 Public, Environmental & Occupational Health, Environmental Sciences)
- Synthesis and characterization of a new photocatalyst based on TiO<sub>2</sub> nanoparticles supported on a magnetic zeolite obtained from iron and steel industrial waste – S. Alberti\*, V. Caratto, D. Peddis, C. Belviso, M. Ferretti – *Journal of Alloys and Compounds* 2019, 797, 820-825 – DOI 10.1016/j.jallcom.2019.05.098 (IF 5.316 – Q2 Chemistry, Physical, Materials Science, Multidisciplinary)
- Systematic study on TiO<sub>2</sub> crystallization via hydrothermal synthesis in the presence of different ferrite nanoparticles as nucleation seeds – S. Alberti, S. Villa, G. Singh, F. Seland, A. Martinelli, M. Ferretti, F. Canepa, V. Caratto – *Journal of Nanoscience and Nanotechnology* 2019, 9:8, 4994-4999 – DOI 10.1166/jnn.2019.16787 (IF 1.134 – Q4 Materials Science, Multidisciplinary, Physics, Condensed Matter)
- Porous Polydimethylsiloxane membranes loaded with low-temperature crystallized TiO<sub>2</sub> NPs for detachable antibacterial films – S. Alberti\*, M. Ferretti, S. Vicini, M. Castellano, V. Caratto – *Journal of Materials Science* 2019, 54, 1665-1676 – DOI 10.1007/s10853-018-2881-4 (IF 4.220 – Q2 Materials Science, Multidisciplinary)
- Photocatalysis in darkness. Optimization of sol-gel synthesis of NP-TiO<sub>2</sub> supported on a persistent luminescence material and its application for the removal of Ofloxacin from water – S. Alberti\*, F. Locardi, M. Sturini, A. Speltini, F. Maraschi, G.A. Costa, M. Ferretti, V. Caratto – *Journal of Nanomedicine and Nanotechnology* 2018, 9:3, 501– DOI 10.4172/2157-7439.1000501 (no rank)
- Structural studies on copper and nitrogen doped nanosized anatase – A. Martinelli, S. Alberti, V. Caratto, P. Lova, F. Locardi, G. Pampararo, S. Villa, M. Ferretti - *Zeitschrift fuer Kristallographie – Crystalline Materials* 2018, 233:12, 867-876 - DOI 10.1515/zkri-2017-2143 (IF 1.310 – Q3 Crystallography)
- Antibacterial activity of standard and N-doped titanium dioxide-coated endotracheal tubes: an in-vitro study – V. Caratto, L. Ball, E. Sanguineti, A. Insorsi, I.

Firpo, S. Alberti, M. Ferretti, P. Pelosi – Revista Brasileira de Terapia Intensiva 2017, 29:1, 55-62 - DOI: 10.5935/0103-507X.20170009 (no rank)

- Different sol-gel preparations of iron-doped TiO<sub>2</sub> nanoparticles: characterization, photocatalytic activity and cytotoxicity – V. Caratto, F. Locardi, S. Alberti, E. Sanguineti, A. Martinelli, T. Balbi, L. Canesi, M. Ferretti – Journal of Sol-Gel Science and Technologies - 2016, 80:1, 152-159, DOI 10.1007/s10971-016-4057-5. (IF 2.326 – Q2 Materials Science, Ceramics)
- Enhancement of TiO<sub>2</sub> NPs activity by Fe<sub>3</sub>O<sub>4</sub> nano-seeds for removal of organic pollutants in water - S. Villa, V. Caratto, F. Locardi, S. Alberti, M. Sturini, A. Speltini, F. Maraschi, F. Canepa, M. Ferretti – Materials - 2016, 9, 771, DOI 10.3390/ma9090771 (IF 3.623 – Q2 Physics, Condensed Matter; Chemistry, Physical; Q1 Metallurgy & Metallurgical Engineering)

## Reviews

- Referee for: Journal of Alloys and Compounds (3), Zeitschrift für Naturforschung A - A Journal of Physical Sciences (2), Journal of Materials Science (1)

## Conference documents:

- "Physical-Chemical Characterization of Polydimethylsiloxane Electrospun Fibers" – S. Alberti, A. Dodero, G. Chiocchia, S. Vicini, M. Castellano, M. Ferretti – XXVII National Congress of Italian Chemical Society – Online congress – September 14<sup>th</sup>-23<sup>rd</sup>, 2021 – oral presentation
- "Synthesis of PeL/TiO<sub>2</sub> Coupled Photocatalyst for Environmental Applications Related to the Emerging Pollution" – S. Alberti, B. Benedetti, L. Romani, M. Rucco, M. Di Carro, E. Magi, M. Ferretti – XXVII National Congress of Italian Chemical Society – Online congress – September 14<sup>th</sup>-23<sup>rd</sup>, 2021 – poster presentation
- Seminar on "Advanced Oxidation Processes for Environmental Applications" for Polymer Science students of Industrial Chemistry Master Course, University of Genova, Genova – Italy, February 18<sup>th</sup> 2021 – oral presentation
- "PDMS polymeric membrane loaded with TiO<sub>2</sub> NPs with antibacterial properties" – S. Alberti, A. Dodero, S. Vicini, M. Castellano, V. Caratto, M. Ferretti – MACROGIOVANI – Digital Edition – June 26<sup>th</sup> 2020 – oral presentation
- Seminar on "Emerging Pollutants' Threat" for University of Third Age Auditors, Natural, Physical and Mathematical Sciences course, University of Genova, Genova – Italy, May 28<sup>th</sup> 2020 – oral presentation

- Seminar on "Photocatalysis for Environmental Applications" for Master Degree Students in Chemical Science, Environmental Physical Chemistry course, University of Genova, Genova – Italy, May 20<sup>th</sup> 2020 – [oral presentation](#)
- "Synthesis of a TiO<sub>2</sub>-based photocatalyst supported on a magnetic zeolite obtained from industrial waste for environmental remediation" - S. Alberti, V. Caratto, D. Peddis, C. Belviso, M. Ferretti - CDCF19 "XLVII Congresso Nazionale di Chimica Fisica" - University "Sapienza" of Roma, Roma – Italy, July 1<sup>st</sup>-4<sup>th</sup> 2019 – [oral presentation](#)
- Seminar on "Emerging Pollution" for Master Degree Students in Chemical Science, Environmental Physical Chemistry course, University of Genova, Genova – Italy, April 20<sup>th</sup> 2018 – [oral presentation](#)
- "Synthesis and characterization of a new photocatalyst based on TiO<sub>2</sub> nanoparticles supported on magnetic materials from iron and steel industrial waste" – M. Ferretti, V. Caratto, S. Alberti, D. Peddis, M. Sturini, A. Speltini, F. Maraschi, C. Belviso – ISMANAM2018 "25<sup>th</sup> International Symposium on Metastable, Amorphous and Nanostructured Materials" – Roma – Italy, July 2<sup>nd</sup>-6<sup>th</sup> 2018 – poster presentation
- "Porous PDMS membranes loaded with bare and N-doped TiO<sub>2</sub> NPs for antibacterial coatings" – S. Alberti, I. Basciu, A. Saperdi, S. Vicini, M. Castellano, M. Ferretti, V. Caratto - CABC2018 "XVII Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali: la tutela dell'ambiente e dei beni culturali in un mondo che cambia" - Genova - Italy, June 24<sup>th</sup>-27<sup>th</sup> 2018 – [oral presentation](#)
- "NPs TiO<sub>2</sub> supported on sepiolites: a photocatalytic tool for emerging pollution" – F. Fossati, S. Alberti, M. Ricci, M. Sturini, A. Speltini, F. Maraschi, V. Caratto, M. Ferretti - CABC2018 "XVII Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali: la tutela dell'ambiente e dei beni culturali in un mondo che cambia" - Genova - Italy, June 24<sup>th</sup>-27<sup>th</sup> 2018 – poster presentation
- "Synthesis and characterization of a new photocatalyst based on TiO<sub>2</sub> nanoparticles supported on magnetic materials from iron and steel industrial waste" – M. Ferretti, V. Caratto, S. Alberti, P. Rizzo, D. Sangaletti, D. Peddis, M. Sturini, C. Belviso, A. Speltini - CABC2018 "XVII Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali: la tutela dell'ambiente e dei beni culturali in un mondo che cambia" - Genova - Italy, June 24<sup>th</sup>-27<sup>th</sup> 2018 – poster presentation
- "Porous PDMS membranes loaded with TiO<sub>2</sub> NPs for detachable antibacterial coatings" – S. Alberti, I. Basciu, S. Vicini, M. Castellano, M. Ferretti, V. Caratto – GIFC18

"IX Edizione delle Giornate Italo-Francesi" – Genova – Italy, April 16<sup>th</sup>-18<sup>th</sup> 2018 – oral presentation

- "PDMS membranes loaded with undoped and doped TiO<sub>2</sub> NPs for antibacterial activity" - S. Alberti, V. Caratto, M. Mauri, S. Vicini, M. Castellano, M. Ferretti – Applied Nanotechnology and Nanoscience International Conference "ANNIC2017" - Roma – Italy, October 18<sup>th</sup>-20<sup>th</sup> 2017 – oral presentation
- "Synthesis optimization and efficiency improvement of a catalytic coupled system of NPs TiO<sub>2</sub> - NPs ZnO supported on a persistent luminescence material" - P. Lova, S. Alberti, V. Caratto, F. Locardi, M. Ferretti, D. Comoretto – European Materials Research Society "E-MRS2017" Fall Meeting – Warsaw – Poland, September 18<sup>th</sup>-21<sup>st</sup> 2017 – poster presentation
- "PDMS membranes loaded with TiO<sub>2</sub> NPs: antibacterial activity and self-cleaning properties" – S. Alberti, V. Caratto, M. Mauri, S. Vicini, M. Castellano, M. Ferretti – XXVI Congresso Nazionale dell Società Chimica Italiana – Paestum – Italy, September 10<sup>th</sup>-14<sup>th</sup> 2017 – poster presentation
- "TiO<sub>2</sub>-NPs supported on sepiolites: a photocatalytic tool for removal of emerging pollutants" – F. Fossati, S. Alberti, M. Sturini, F. Maraschi, A. Speltini, A. Profumo, V. Caratto, M. Ferretti – XXVI Congresso Nazionale dell Società Chimica Italiana – Paestum – Italy, September 10<sup>th</sup>-14<sup>th</sup> 2017 – poster presentation
- "Removal of pollutants of emerging concern and the treatment of turbid wastewaters: optimization of the synthesis of NP-TiO<sub>2</sub> supported on a persistent luminescence material" - S. Alberti, V. Caratto, F. Locardi, M. Ferretti, G.A. Costa, M. Sturini, A. Speltini, F. Maraschi – International Conference on Chemistry and the Environment "ICCE2017" – Oslo – Norway, June 18<sup>th</sup>-22<sup>nd</sup> 2017 – oral presentation
- "New synthesis of Fe<sub>3</sub>O<sub>4</sub>-TiO<sub>2</sub> nanopowders for removal of organic pollutants in water" - V. Caratto, S. Villa, F. Locardi, S. Alberti, M. Sturini, F. Canepa, M. Ferretti - XVI Congresso Nazionale sulla Chimica Ambientale e Culturale "From Emergency to Safeguard: Chemistry for a new Development Mode", Lecce – Italy, June 26<sup>th</sup>-29<sup>th</sup> 2016 – poster presentation
- "TiO<sub>2</sub> NPs supported on a new persistence luminesce material 'PeL': optimization of the hydrothermal synthesis" - S. Alberti, V. Caratto, E. Sanguineti, F. Locardi, M. Sturini, A. Speltini, F. Maraschi A. Profumo, G.A. Costa, M. Ferretti – XLIV Incontro della Divisione di Chimica Fisica della SCI, Napoli - Italy, September 20<sup>th</sup>-23<sup>rd</sup> 2016 – poster presentation

- "Photocatalysis in darkness is possible. The activity of NP-TiO<sub>2</sub> supported on a new persistent luminescence phosphor" – V. Caratto, F. Locardi, E. Sanguineti, S. Alberti, M. Sturini, A. Speltini, F. Maraschi, A. Profumo, G.A. Costa, M. Ferretti – Journées Franco-Italiennes de Chimie, Avignon - France, April 25<sup>th</sup>-26<sup>th</sup> 2016 – poster presentation (*awarded as best poster presentation*)
- "Photocatalytic activity of NPs-TiO<sub>2</sub> supported on a new luminescence phosphor" – V. Caratto, F. Locardi, E. Sanguineti, S. Alberti, M. Sturini, A. Speltini, F. Maraschi, A. Profumo, G.A. Costa, M. Ferretti – ENERCHEM, Firenze - Italy, February 18<sup>th</sup>-20<sup>th</sup> 2016 – poster presentation
- "Study of Interaction of La<sub>2</sub>O<sub>3</sub> and molten salts mixture" – F. Locardi, V. Caratto, S. Alberti, E. Franceschi, G.A. Costa – AICAT - XXXVI Congresso Nazionale sulla Calorimetria, Analisi Termica e Termodinamica applicata, Cagliari - Italy, September 8<sup>th</sup>-11<sup>th</sup> 2014 – poster presentation

#### **Conference attendance:**

- "XXVII National Congress of the Italian Chemical Society" – Online Congress – September 14<sup>th</sup>-23<sup>rd</sup> 2021
- MACROGIOVANI – Digital Edition – Microsoft Teams – June 26<sup>th</sup> 2020
- CDCF19 "XLVII Congresso Nazionale di Chimica Fisica" - University "Sapienza" of Roma, Roma – Italy, July 1<sup>st</sup>-4<sup>th</sup> 2019
- 3<sup>rd</sup> European Summer School of Environmental Application on Advanced Oxidation Processes – Polytechnic University of Valencia, Alcoy Campus, Alcoy – Spain, June 3<sup>rd</sup>-7<sup>th</sup> 2019
- AIM2018 "Advanced Inorganic Materials. Green and Unconventional Synthesis Approaches and Functional Assessment" – University of Padova – Italy, September 5<sup>th</sup>-8<sup>th</sup> 2018
- CABIC2018 "XVII Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali: la tutela dell'ambiente e dei beni culturali in un mondo che cambia" - Member of the organizing committee – University of Genova, Genova - Italy, June 24<sup>th</sup>-27<sup>th</sup> 2018
- MIE2018 "Microinquinanti e Contaminanti Emergenti: Testimonianze, Soluzioni e Prospettive" – Polytechnic School of Milan, Milano – Italy, June 11<sup>th</sup>-12<sup>th</sup> 2018
- GIFC18 "IX Edizione delle Giornate Italo-Francesi" – Genova – Italy, April 16<sup>th</sup>-18<sup>th</sup> 2018
- "V Scuola di Chimica dell'Ambiente e dei Beni Culturali" – University of Bologna, Ravenna – Italy, January 22<sup>nd</sup>-26<sup>th</sup> 2018



- PRESENCE “Phd students as a bRidge bETween Science aNd society” – University of Genova, Genova – Italy, October 27<sup>th</sup> 2017
- ANNIC2017 “Applied Nanotechnology and Nanoscience International Conference” Roma – Italy, October 18<sup>th</sup>-20<sup>th</sup> 2017
- “XXVI Congresso Nazionale della Società Chimica Italiana” – Paestum – Italy, September 10<sup>th</sup>-14<sup>th</sup> 2017
- “Dottorato in Chimica: dove siamo e dove vogliamo arrivare” – Alma Mater Studiorum – University of Bologna, June 23<sup>rd</sup> 2017
- ICCE2017 “16<sup>th</sup> International Conference on Chemistry and the Environment” – University of Oslo, Oslo – Norway, June 18<sup>th</sup>-22<sup>th</sup> 2017
- 5<sup>th</sup> Workshop on “Programma PhD – Formazione Post Lauream e il mondo del lavoro. Nell'industria chimica, chi fa ricerca fa carriera?” – Polytechnic University of Genova, Genova - Italy, May 24<sup>th</sup> 2017
- “Synthesis, characterization and properties of intermetallic compounds and intermetalloid clusters” and “Soluble cluster for fabrication of inorganic material” – held by Dr. Thomas Fässler – University of Genova, Genova- Italy, May 11<sup>th</sup> 2017
- “Nanostructured metal optics: from theory to enhanced spectroscopies, sensing, imaging” – Scuola Normale Superiore, Pisa - Italy, April 1<sup>st</sup> 2016
- IWIW 2016 “International Workshop on Industrial Waste, Approaches and Technologies for the Recovery of raw materials by complex products end of life” – Member of the organizing committee - University of Genova, Genova - Italy, February 17<sup>th</sup> 2016

## Working Experience

*Cultore della Materia* for Materials Chemistry C.C.S., Department of Chemistry and Industrial Chemistry, University of Genoa – April 1<sup>st</sup> 2021

*Cultore della Materia* for s.s.d. CHIM-02, Department of Chemistry and Industrial Chemistry, University of Genoa – February 22<sup>nd</sup> 2021

Collaboration with public transport companies' “AMT”, Genova, and “TPL”, Savona, for the development of an analytical procedure concerning the evaluation of the risks related to the Covid-19 pandemic within transport means – March and April, 2020



Training Project on School/Work Alternation for High School Students – January and February, 2020

2 hours-lesson on “Photocatalysis for Environmental Applications” for first year students of Medical and Pharmaceutical Biotechnologies Master course, held in English – December 11<sup>th</sup> 2019 and December 22<sup>nd</sup> 2020

Collaboration with “Associazione Didattica Museale” for educational lessons in the Chemistry Museum of University of Genoa – September 2019 to (attendance in progress)

Collaboration with University of Genova, Genova (GE), for the project of Educational Tutoring Activity (A\_FARM\_01) – October 2019 to May 2020

Visiting PhD student at Technical University of Crete, Chanià, Greece  
Department of Environmental Engineering, in care of Professor Elefteria Psillakis  
January 18<sup>th</sup> - May 25<sup>th</sup>, 2019

Collaboration assignment with CNR-ISM  
European Project H2020 Fetproact 2016-2017 N.731976 MAGENTA “MAGnetic nanoparticle based liquid ENergy materials for Thermoelectric device Application (DFM.AD003.217)  
January 1<sup>st</sup> – December 31<sup>st</sup>, 2019

Member of the “International PhD School on Advanced Oxidation Processes” network  
Coordinated by Prof. Luigi Rizzo – September the 20<sup>th</sup>, 2018

Doctorate School of Science and Technology of Chemistry and Materials  
Students' Representative in the Department Council, in the Department Board and STC  
Doctorate Board for XXXII-XXXIII Cycle – 2016/2019

Educational Laboratory about “What we eat” intended for Secondary School Students in collaboration with Cagliari Festival Scienza, during Salone del Libro OFF, Torino (TO) – May 2018

Part of the Project “Porto Aperto”, as a collaboration between the Department of Chemistry and Industrial Chemistry and the company of *Porto Petroli di Genova S.p.A* for educational chemistry laboratories for Primary and Secondary School students – February – May 2018

Collaboration with University of Genova, Genova (GE), for the project of Educational Tutoring Activity (A\_SMFN\_04) – October 2017 to February 2018

Collaboration with Organizing Committee of the “Mole Day” (Department of Chemistry and Industrial Chemistry, Genova (GE)) as informative day for High School students – October 2017, 2018, 2019 and 2020

Collaboration in the Project “Re-Source 4.0” for water supply with Unicef – November 2017

Collaboration with the laboratory research group for the development of surfactants analysis methodology from excavation rocks (Protocol n° 8517 – February the 1<sup>st</sup>, 2017)

Support work for laboratory educational activity – University of Genova, Genova (GE)

Courses:

- Inorganic Chemistry 1 with laboratory (Chemistry and Technological Chemistry), February to May, 2017
- Physical Chemistry 1 with Laboratory (Material Science), November – December 2016

September 2014/today

Chemistry lessons for high school and bachelor students (collaboration with International School DIS, Genova (GE)).

2009 to 2012 summer seasons

Employer: Micol Costantini, st. S. Lucia 54, Imperia (IM)

Waiter, assistant chef, room service, clients' reception

## **Mother tongue**

Italian

## **Other languages**

English

-FCE University of Cambridge, B2 – May the 14<sup>th</sup>, 2009

-Writing, reading and speaking skills: Excellent

## **Driving license**

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