

## Curriculum Vitae

### Personal information Saverio Affatato

#### Work experience

He has worked in S. Orsola Hospital (Bologna-Italy) and Performed Data Acquisition and Analysis for gamma spectrometer. Setting Up Radiology and NIR measured in Physics Laboratories and Hospital. Acquired NIR radiations. Since 1994 he has been working at the Laboratorio di Tecnologia Medica (LTM), where he is currently involved on the development of diagnostic methods for the in-vitro evaluation of prosthetic implants. In particular he has Developed, Tested and Debugged Special Software Applications to Ultrasound Digitizer 3D (Italian Patent N. BO97A000338).

From 1995 he has been involved on the development of new wear protocols for wear evaluation on Hip Joint Simulator and particle debris characterization. He teaches "computerised methods for the post surgery evaluation of Total Hip Arthroplasty" in the post-doctoral course "Biomedical Technologies in Reconstructive Articular Surgery", University of Bologna.

He was and is actually the reference person, for the Lab., for some European projects (EUREKA "EU-294", Bioker, Nanoker).

#### Education and training

1994  
School of Specialization in Health Physics - University of Bologna. 1991  
School of Specialization in Atomic and Nuclear Physics - University of Bologna  
1990  
Physic degree - Specialized degree ex DM 509/99 / four-year degree in the old system.

#### Additional information

##### Publications

Saverio Affatato has published more than 170 scientific articles in international journals with impact factor. They can be consulted through [www.scopus.com](http://www.scopus.com) [ author - Saverio Affatato]

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Papers [international]	171	<a href="http://www.Scopus.com">www.Scopus.com</a>	1991	2021
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##### Projects

He was and is actually the reference person, for the Lab., for some European projects (EUREKA "EU-294", Bioker, Nanoker).

##### Memberships

• Saverio Affatato has published four scientific books edited by Elsevier, Hindawi consulted through Google book or Amazon.

Relator at Meetings, Conferences, Seminars

- INVITED LECTURE al III congreso Nacional de la Sociedad Española de cirugía de la Cadera 2000
- INVITED LECTURE al World Tribology Forum in Arthroplasty - Montreux (Switzerland) 2000
- La chirurgia protesica ricostruttiva 2004
- 15th Annual Meeting of EORS 2005 - full paper accepted
- INVITED LECTURE al 11th International BIOLOX Symposium 2006
- 5th World Congress of Biomechanics 2006 - full paper accepted
- La chirurgia Protesica ricostruttiva 2008
- 16th Congress of European Society of Biomechanics 2008 - full paper accepted
- 17th International Conference on Wear of Materials 2009 - full paper accepted
- 2nd Workshop on Biotribology for the European Cost 533 2009 - full paper accepted

- 2nd European Conference on Tribology 2009 - full paper accepted
- INVITED LECTURE al XVI Congreso International sobre Education 2009 - full paper accepted
- Materiali per la ricerca 2009
- La chirurgia Protesica ricostruttiva 2009
- Optoelettronica Medica 2010
- INVITED LECTURE al Germany Society for Orthopaedics and Orthopaedic Surgery e.V. (DGOOC) 2010 - full paper accepted
- INVITED LECTURE al 12th EFORT Congress 2011 - full paper accepted
- 3rd European conference on Tribology 2011 - full paper accepted
- Congresso nazionale Biomateriali 2014 – Rome - full paper accepted
- ISB 2015 Glasgow - full paper accepted
- ISTA 2015 Wien - full paper accepted
- ECOTRIB 2015 - full paper accepted
- AIMETA 2015 – full paper accepted
- ECOTRIB 2016 - full paper accepted
- 8th World Congress of Biomechanics 2018 – full paper accepted
- 15th IFToMM World Congress 2019 – full paper accepted

Curriculum Vitae Replace with First name(s) Surname(s)

Direction

treatises of recognized prestige

- Wear from 01-01-2005 at today Referee
- Journal of Biomechanics from 01-01-2005 at today Referee
- Clinical Orthopaedics and related research dal 01-01-2005 at today
- Journal of Biomedical Mechanical Behavior of Biomedical Materials

or participation in editorial committees of magazines, editorial series, encyclopaedias and

2009 at today Referee

- Tribology International from 01-01-2010 at today Referee
- Wear of Orthopaedic Implants and Artificial Joints from 01-01-2011 at today 01-12-2012
- Referee
- Research Executive Agency (European reviewer) from 01-01-2012 at today 01-01-2013
- Referee
- Lubricants from 01-01-2012 at today Referee
- The Knee
- dal 01-01-2012 at today Referee
- JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS from 2015 at today Referee
- Clinical Orthopaedics and Related Research from 2015 at today Referee
- Hindawi/Elsevier 2012
- Editor of the book "Wear of orthopaedic implants and alternative joints".
- Orthopedics from 01-01-2012 at today
- Editor of the book "Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological interaction" Hindawi/Elsevier 2014
- Editor of the book "Surgical Techniques in total knee arthroplasty and alternative procedures"
- Materials 2016-2017
- Editorial board member
- Journal Health Care Engineering from 01-01-2014 at today
- Applied Bionics and Biomechanics from 01-01-2014 at today

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Referee from 01-01-

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- Hindawi/Elsevier 2014

- Guest Editor Special Issue "Corrosion and Tribology of Biomaterials used in hip and Knee Arthroplasty"
- Materials 2017-2018 Guest Editor Special Issue "Advanced biomaterials for Orthopaedic Application: the Challenge of new composites and Alloy used as Medical Devices "

## Other Relevant Information

### Teaching experience

2008 German Society for Orthopaedics and Orthopaedic Surgery - Invited Lecture on "Advanced Nanocomposite Materials for Orthopaedic Applications. I. A Long-Term In Vitro Wear Study of Zirconia-Toughened Alumina"

2009 Facultad de Ingeniería, Monterrey Mexico - Course on "Tribology on hip and Knee total joint prostheses"

2010 German Society for Orthopaedics and Orthopaedic Surgery - Invited Lecture on "Mixing and matching in ceramic-on-metal hip arthroplasty: An in-vitro hip stimulator study"

2011 EFORT Invited Lecture on "How to measure Wear in THA"

### Summary of Scientific Achievements Product type Number Data Base Start End

Papers [international]	171	<a href="http://www.Scopus.com">www.Scopus.com</a>	1991	2021
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Books [scientific]	4	Google libri	2008	2014
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Total Citations	2515 (scopus font)
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Hirsch (H) index	27 (scopus font)
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