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## Curriculum Vitae



Name: Dr. Dimitris Strakas

Date of birth/place: June 11th 1975, Volos

Nationality: Greek

Location: Sp. Spiridi 28 Volos, 38221

Country: Greece

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1992 - 1995 Secondary school in 2<sup>nd</sup> Lyceum of Volos

1996 - 2002 Studies in Dentistry in Aristotle University of Thessaloniki

Diploma achievement as a ‘ ‘ DDS’ ’

2002 - 2004 Military service in Greek Air Force

Serving as Dentist

Postgraduate studies:

May 2003 Completion of the AALZ Dental Laser Workshop held at RWTH

Aachen University

September 2004 Certified as a Laser Safety Officer by RWTH

Aachen University

2004 - 2006 Post graduate Master in “Lasers in Dentistry” of the RWTH Aachen University

Master thesis: ‘ ‘ A comparative study of temperature elevation on human teeth root surfaces during Nd:YAG laser irradiation in root canals’ ’

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2013 - 2017 PhD Aristotle University of Thessaloniki, Department of Operative Dentistry

2017-present University Scholar at the Department of Operative Dentistry, in School of

Dentistry, Aristotle University of Thessaloniki, Greece.

2019-present Visiting Professor at MIU University Cairo.

Scientific Activities/Memberships:

- General Secretary of the International Society for Laser Dentistry (ISLD)
- Vice-President of the Hellenic Academy for Laser Dentistry (HALD)

- Past-Chairman of the World Federation for Laser Dentistry-European Division (WFLD-ED)
- Founding Member and Past President of the Greek Society for Laser Dentistry (GSLD)
- Member of the Deutschen Gesellschaft für Laserzahnheilkunde e.V. (DGL)
- Founding Member of the International Society for Laser Dentistry (ISLD)
- Associate Editor of “Lasers in Dental Science” , Springer Publications
- Member of the Editorial Board of Laser Magazine (the International Magazine of Laser Dentistry) - ISSN 1616-6345, Oemus Publications

Work experience:

- Owner of its own Dental Clinic from 2003 till present
- Scientific Director of AALZ (**Aachen Dental Laser Center**) at **SFU University, Vienna** from **2007 till present**
- Honorary Professor at Sigmund Freud University, Vienna, Austria (2024-present)
- Visiting Professor at MIU University Cairo, Egypt (2019-present)
- **Lecturer and trainer on Dental laser systems in the Master of Science and Mastership/Fellowship Certified Courses of Aachen Dental Laser Center (AALZ) at ) at SFU University, Vienna**
- **Lecturer and trainer on Dental laser systems in Dental School of Aristotle University Thessaloniki**
- **Reviewer for peer reviewed scientific magazine “Lasers in Medical Science” from Springer Publishing**
- University Scholar at the Department of Operative Dentistry, in School of Dentistry, Aristotle University of Thessaloniki, Greece (2017-present)
- Organizing Chairman of the 7<sup>th</sup> WFLD-ED Congress, held in Thessaloniki, Greece on 21-23 September 2017
- Organizing Vice-Chairman of the 16<sup>th</sup> WFLD World Congress, held in Aachen, Germany, on 01-03 October 2018
- International Scientific Committee Chairman of the 17<sup>th</sup> ISLD World Congress, held in Plovdiv, Bulgaria, on 06-08 June 2019
- 3
- Organizing Secretary of the 18<sup>th</sup> ISLD World Congress, held in Cairo, Egypt , on 20-22 May 2022

- Organizing Co-Chairman of the 20<sup>th</sup> ISLD World Congress, which will be held in Dubai, UAE, in 11/2026

- Scientific Co-Chairman of the 20<sup>th</sup> ISLD World Congress, which will be held in Dubai, UAE, in 11/2026

Peer-Reviewed Publications:

1) A comparative study of temperature elevation on human teeth root surfaces during Nd:YAG

laser irradiation in root canals. D.Strakas, R. Franzen, A. Kallis, L. Vanweersch, N.

Gutknecht. *Lasers Med Sci* 28, 1441-1444 (2013) [https://doi.org/10.1007/s10103-](https://doi.org/10.1007/s10103-012-1203-3)

1203-3

2) Basic principles and application of laser irradiation in Periodontology. F. Katsikanis, D.

Strakas, I. Vouros. *Analecta Periodontologica*, 2013; 23

3) The influence of a novel in-office tooth whitening procedure using an Er,Cr:YSGG laser

on enamel surface morphology. D.Dionysopoulos, D.Strakas, E. Koliniotou-Koumpia

*Lasers Surg. Med.*, 47: 503-511. doi:10.1002/lsm.22372

4) Intra-pulpal temperature rise of different tooth types during dental bleaching supported

by an Er,Cr:YSGG laser. A pilot study. D. Strakas , K. Tolidis, E. Koliniotou-Koumpia,

L. Vanweersch, R. Franzen, N. Gutknecht. *Lasers Med Sci* 31, 77-82 (2016). <https://doi.org/10.1007/s10103-015-1831-5>

5) Effect of Er,Cr:YSGG laser irradiation on the surface of composite restoratives

during in-office tooth bleaching. D.Dionysopoulos, D.Strakas, E.Tsitrou, K.Tolidis,

E.Koumpia. *Lasers Med Sci* 31, 875-882 (2016). [https://doi.org/10.1007/s10103-](https://doi.org/10.1007/s10103-016-1926-7)

1926-7

6) Effect of radiant heat on conventional glass ionomer cements during setting by using a

blue light diode laser system (445 nm). Dimitrios Dionysopoulos, Kosmas Tolidis,

Dimitrios Strakas, Paris Gerasimou, Thrasyvoulos Sfeikos, Norbert Gutknecht. *Lasers Med Sci* 32, 703-709 (2017). <https://doi.org/10.1007/s10103-017-2178-x>

- 7) In Vitro microleakage of class V composite restorations prepared by Er,Cr:YSGG Laser and carbide bur. Athanasios Synarellis, Pantelis Kouros, Elisabeth Koulaouzidou, Dimitrios Strakas, Eugenia Koliniotou-Koumpia. *Balkan Journal of Dental Medicine*, 21(1), 24-31. doi: <https://doi.org/10.1515/bjdm-2017-0004>
- 8) Comparative study of intrapulpal temperature stress during Er,Cr:YSGG-supported dental bleaching versus conventional dental power bleaching. An in vitro study. D. Strakas , K. Tolidis, E. Koliniotou- Koumpia, L. Vanweersch, R. Franzen, N. Gutknecht. *Laser Dent Sci* 1, 57-64 (2017). <https://doi.org/10.1007/s41547-017-0006-z>
- 9) Spectrophotometric analysis of the effectiveness of a novel in-office laser-assisted tooth bleaching method using Er,Cr:YSGG laser. Dimitrios Dionysopoulos, Dimitrios Strakas, 4 Kosmas Tolidis, Effrosyni Tsitrou, Effimia Koumpia, Eugenia Koliniotou-Koumpia. *Lasers Med Sci* 32, 1811-1818 (2017). <https://doi.org/10.1007/s10103-017-2274-y>
- 10) Effect of Er,Cr:YSGG laser irradiation on bovine enamel surface during in-office tooth bleaching ex vivo. Dimitrios Dionysopoulos, Dimitrios Strakas, Eugenia Koliniotou-Koumpia, Effimia Koumpia. *Odontology* 105, 320-328 (2017). <https://doi.org/10.1007/s10266-016-0273-2>
- 11) Effects of blue diode laser (445 nm) and LED (430-480 nm) radiant heat treatments on dental glass ionomer restoratives. Dimitrios Dionysopoulos, Kosmas Tolidis, Dimitrios Strakas, Paris Gerasimou. *Optics & Laser Technology* 99, 249-255 (2018) <https://doi.org/10.1016/j.optlastec.2017.09.009>
- 12) Erbium lasers in operative dentistry—a literature review. Dimitrios Strakas, Norbert Gutknecht. *Laser Dent Sci* 2, 125-136 (2018). <https://doi.org/10.1007/s41547-018-0036-1>
- 13) Evaluation of a clinical preventive treatment using Er,Cr:YSGG (2780 nm) laser on the

susceptibility of enamel to erosive challenge. Dimitrios Dionysopoulos, Kosmas Tolidis,

Dimitrios Strakas, Thrasyvoulos Sfeikos. *Lasers Med Sci* 34, 1089-1097 (2019).

<https://doi.org/10.1007/s10103-018-2679-2>

14) Comparative assessment of diamond bur and Er,Cr:YSGG laser irradiation for cavity

preparation and tissue modification: a microleakage study. Tzimas K., Gerasimou P.,

Strakas D., Tolidis K., Tsitrou E. *Laser Dent Sci* 3, 53-60(2019).

<https://doi.org/10.1007/s41547-019-00053-y>

15) Clinical evaluation of a fluoride gel, a low-level laser, and a resin varnish at the treatment

of dentin hypersensitivity. Papadopoulou A., Vourtsa G., Tolidis K., E. Koliniotou-Koumpia,

P.Gerasimou, D. Strakas, P. Kouros. *Laser Dent Sci* 3, 129-135 (2019).

<https://doi.org/10.1007/s41547-019-00057-8>

16) The application of antimicrobial photodynamic therapy (aPDT, 670 nm) and diode laser

(940 nm) as adjunctive approach in the conventional cause-related treatment of chronic

periodontal disease: a randomized controlled split-mouth clinical trial.

Katsikanis F.,

Strakas D., Vouros I. *Clin Oral Invest* 24, 1821-1827 (2020).

<https://doi.org/10.1007/s00784-019-03045-1>

17) Evaluation of photopolymerization efficacy and temperature rise of a composite resin

using a blue diode laser (445 nm). Pantelis Kouros, Dimitrios Dionysopoulos , Areti

Deligianni, Dimitris Strakas, Thrasyvoulos Sfeikos, Kosmas Tolidis. *Eur J Oral Sci* 2020;

1-7. DOI: 10.1111/eos.12742

18) Papadopoulos A, Dionysopoulos D, Strakas D, Koumpia E, Tolidis K.

Spectrophotometric

evaluation of the effectiveness of Er,Cr:YSGG laser-assisted intracoronary tooth bleaching

treatment using different power settings. *Photodiagnosis Photodyn Ther.* 2021 Jun;34:102272. doi: 10.1016/j.pdpdt.2021.102272. Epub 2021 Mar 30. PMID:

33798751

19) Evrykleia Kourti, Dimitris Strakas, Ourania Pantelidou-Papadopoulou, Kosmas Tolidis.

Smear Layer Removal by Means of Erbium, Chromium: Yttrium Scandium Gallium Garnet

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(Er, Cr: YSGG) Laser Irradiation from Apical Third of Mesial Root Canals, *International*

*Journal of Dental Medicine*. Volume 7, Issue 2, December 2021 , pp. 20-24. doi: 10.11648/j.ijdm.20210702.12

20) Karanasiou C, Dionysopoulos D, Naka O, Strakas D, Tolidis K. Effects of tooth bleaching

protocols assisted by Er,Cr:YSGG and diode (980 nm) lasers on color change of resinbased

restoratives. *J Esthet Restor Dent*. 2021 Dec;33(8):1210-1220. doi:

10.1111/jerd.12817. Epub 2021 Sep 9. PMID: 34498792

21) Strakas D, Dionysopoulos D, Tolidis K, Meister J. Evaluation of cutting efficiency and

thermal damage during soft tissue surgery with 940 nm-diode laser: An ex vivo study.

*Lasers Surg Med*. 2023 Feb 5. doi: 10.1002/lsm.23639. Epub ahead of print.

PMID:

36740362

22) Strakas, D., Franzen, R. The blue wavelengths in laser dentistry: a review of current

literature. *Laser Dent Sci* **7**, 97-99 (2023). <https://doi.org/10.1007/s41547-023-00182-5>

23) Papazisi N, Dionysopoulos D, Naka O, Strakas D, Davidopoulou S, Tolidis K. Efficiency of

Various Tubular Occlusion Agents in Human Dentin after In-Office Tooth Bleaching. *J*

*Funct Biomater*. 2023 Aug 17;14(8):430. doi: 10.3390/jfb14080430. PMID: 37623674;

PMCID: PMC10455242

24) Pavlina Didangelou, Dimitrios Dionysopoulos, Constantinos Papadopoulos, Dimitrios

Strakas, Petros Mourouzis, Kosmas Tolidis, Evaluation of repair bond strength of a dental

CAD/CAM resin composite after surface treatment with two Er,Cr:YSGG laser protocols

following artificial aging, *Journal of the Mechanical Behavior of Biomedical Materials*,

Volume 146, 2023, 106101, ISSN 1751-6161

25) Papadopoulou A, Dionysopoulos D, Strakas D, Kouros P, Kolokitha OE, Tolidis K.  
Temperature changes in the pulp chamber and bleaching gel during tooth bleaching assisted by diode laser (445 nm) using different power settings. Lasers Med Sci. 2023 Sep 12;38(1):209. doi: 10.1007/s10103-023-03863-6. PMID: 37698715; PMCID: PMC10497428

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Books:

1) ) March 2008:

Co-Author of the Greek edition of the book: ‘ ‘ The Laser Therapy Handbook’ ’ by

Jan Tuner and Lars Hode. Originally published by Prima Books in 2004 (ISBN 91-631-1345-7)/ The Greek Edition published by ‘OB Publishing’ in 2008 (ISBN 978-960-89805-6-3)

2) January 2010

Author of the Greek edition of the book: ‘ ‘ Atlas of Laser Applications in Dentistry’ ’ by

Donald Colluzzi and Robert Convissar, published by Quintessence Books and ‘OB Publishing’ (ISBN: 978-960-99328-0-6)

3) September 2012

Author of the Greek edition of the book: ‘ ‘ Principles of Medical and Dental Lasers’ ’ by

Rene Franzen, Lulu Publications, ISBN: 9781105934360

4) March 2017

PhD Thesis: Comparative study of intrapulpal temperature stress during Er,Cr:YSGGsupported dental bleaching versus conventional dental power bleaching. An in vitro study

5) August 2018

Co-author of Chapter 22 “Hard tissue modification, cavity preparation and caries removal using Erbium lasers (Er,Cr:YSGG 2,790 nm and Er:YAG 2,940 nm) in the book ” Laser

Dentistry - Current Clinical Applications” . ISBN: 978-1627341820

5) May 2021

Author of the book: «Glossary of Dental Lasers». ISBN: 9781716187087

<https://www.lulu.com/en/us/shop/rene-franzen-and-dimitris-strakas/glossary-of-dentallasers/paperback/product-j6nz7j.html?page=1&pageSize=4>

Other Publications:

1) November 2004:

‘The Laser Bleaching Techniques’ .

Article in Greek Dental Newspaper <Odontiatriko Vima>, Issue 18, Pages 10-11

2) January 2009

“ Presentation of the Greek Society for Laser Dentistry and its 1st Congress  
, ,

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 1/2009

3) April 2009

“ The 2nd Pan-Hellenic Congress for Laser Dentistry’ ’

Article in Laser Magazine (the International magazine of Laser Dentistry),  
7

Issue 2/2009

4) July 2010

“ AALZ Greece successfully established’ ’

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 3/2010

5) October 2010

“ First year of AALZ Greece full of activities’ ’

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 4/2010

6) January 2011

“ Laser-assisted teeth bleaching’ ’

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 1/2011

7) April 2011

D. Strakas, L. Vanweersch, N. Gutknecht, R. Franzen, „Laser assisted teeth  
bleaching. “ Arab Dental 23;(2):22-24, 2011.

8) October 2011

“ Graduation of the first Mastership Course of AALZ Greece’ ’

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 4/2011

9) May 2014

“Er,Cr:YSGG in laser-assisted aesthetic rehabilitation: A case report”

Article in Laser Magazine (the International magazine of Laser Dentistry),  
Issue 2/2014

10) September 2014

“Dental School of Aristotle University enters laser family” . Article in  
Laser Magazine (the  
International magazine of Laser Dentistry), Issue 4/2014

11) September 2015

“A multidisciplinary approach with Er,Cr:YSGG. Aesthetic management of hard and soft

tissues” . Article in Laser Magazine (the International magazine of Laser Dentistry),

Issue 4/2015

12) April 2018

“Minimally invasive dentistry with Er,Cr:YSGG” . Article in Laser Magazine (the

International magazine of Laser Dentistry). Issue 2/2018

13) July 2019

“Severe peri-implantitis treated with the Er,Cr:YSGG laser “.Article in Laser Magazine (the

International magazine of Laser Dentistry). Issue 3/2019

8

14) October 2019

“Analysis of the laser dentistry market “ “.Article in Laser Magazine (the International magazine of Laser Dentistry). Issue 4/2019

Conferences, Lectures

1) Larissa 7/11/2004

Greek Laser Conference

Lecture title: ‘ ‘ Power Bleaching’ ’

2) Berlin 18-20/5/2006

10th International Congress on Lasers in Dentistry ‘Shape the Future’

Lecture title: ‘ ‘ A Comparative study of temperature elevation on human root surfaces during

Nd:YAG laser irradiation in root canals’ ’

3) Thessaloniki, 5/05/2007

Aristotle University, ‘Lasers in Dentistry Conference’

Lecture title: ‘ ‘ Tooth Laser Bleaching, Is it possible?’ ’

4) Athens, 1/03/2008

Fotona Users Meeting

Lecture 1: ‘ ‘ Temperature elevation and germ reduction, using Nd:YAG lasers in root canal

therapy’ ’

Lecture 2: ‘ ‘ Laser safety in every day practice’ ’

5) Athens, 28-29/03/2008

1st Pan-Hellenic Congress of GSLD (Greek Society for Laser Dentistry)

Lecture title: ‘ ‘ Teeth Power Bleaching using Nd:YAG laser’ ’

6) Thessaloniki, 28/06/2008

Fotona Users Meeting

Lecture 1: ‘‘ Temperature elevation and germ reduction, using Nd:YAG lasers in root canal therapy’ ’

Lecture 2: ‘‘ Laser safety in every day practice’ ’

7) Hong Kong, 29/07/2008

11th World Congress of WFLD, ‘‘ Let There Be Light’ ’

Lecture title: ‘‘ Tooth bleaching using Nd:YAG laser. Clinical Presentations’ ’

8) Athens, 27-29/03/2009

2nd Pan-Hellenic Congress of GSLD (Greek Society for Laser Dentistry)

Lecture title: ‘‘ Power Bleaching. New Clinical Data’ ’

9) Istanbul, 14-17/05/2009

2nd Congress of World Federation for Laser Dentistry (WFLD-ED)

Lecture title: ‘‘ Nd:YAG laser bleaching. Recent improvements and clinical presentations’ ’

9

10) Athens, 31/01/2010

1-day Laser Safety Course by AALZ Greece

Main Lecturer

11) Dubai, 9-11/03/2010

12th World Congress of WFLD, ‘‘ Let Your Light Shine’ ’

Lecture title: ‘‘ Nd:YAG laser bleaching. Recent improvements and clinical presentations’ ’

12) Loutraki, 18/06/2010

1-day Laser Safety Course by AALZ Greece

Main Lecturer

13) Athens, 14/11/2010

Fotona Users Meeting

Lecture Title: Laser Application in every day dental practice

14) Athens, 01/04/2011

1-day Laser Safety Course by AALZ Greece

Main Lecturer

15) Athens, 02/04/2011

1-day Diode Laser Course by AALZ Greece

Main Lecturer

16) Rome, 09-11/06/2011

3rd Congress of World Federation for Laser Dentistry (WFLD-ED)

Lecture title: ‘‘ Nd:YAG laser bleaching. Recent improvements and clinical presentations’ ’

17) Shahid Behesti University Tehran, Iran 19-21/10/2011

2nd Iranian application of Laser in Dentistry Congress

Lecture 1: Nd:YAG laser bleaching.

Lecture 2: ‘ ‘ A Comparative study of temperature elevation on human root surfaces

during Nd:YAG laser irradiation in root canals’ ’

18) Athens, 02/12/2011

1st International Laser Congress of AALZ Greece

Lecture title: ‘ ‘ Laser bleaching in dental office’ ’

19) Kozani, 10-11/12/2011

7th Dental Conference of Western Macedonia

Lecture title: ‘ ‘ Tooth bleaching using Nd:YAG laser. Clinical Presentations  
, ,

20) Athens, 05/05/2012

1-day Laser Safety Course by AALZ Greece

Main Lecturer

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21) Alexandroupoli, 09/11/2012

32nd Panhellenic Dental Congress

Keynote speaker: ” Aesthetic Dentistry. Science, Art, Knowledge”

22) Alexandroupoli, 11/11/2012

32nd Panhellenic Dental Congress

Lecture title: ‘ ‘ Laser power bleaching. A modern approach’ ’

23) Istanbul, 11/01/2013

24th International Scientific Congress - Turkish Society of Oral Implantology

Keynote speaker: “Lasers in Implantology”

24) Istanbul, 1-2/11/2013

1st International and Implant Congress of GLOBAL and WALED

Keynote speaker: “EBD in Aesthetic dentistry with lasers”

25) Berlin, 15-16/11/2013

22nd Annual Congress of DGL (Dental German Laser Association) Keynote speaker:  
“Lasers in Aesthetics”

26) Aachen, 01-02/05/2014

2nd WALED Congress

Keynote speaker: “EBD in Aesthetic dentistry with lasers”

27) Paris 02-04/07/2014

14th WFLD World Congress

Keynote speaker: “Lasers in Aesthetics. An EBD approach “

28) Thessaloniki 14-16/11/2014

34th Panhellenic Dental Congress

Round table, keynote speaker: “Dentistry in the modern era. Lasers”

29) Athens, 17/01/2015

1-day Laser Safety Course by AALZ Greece

Main Lecturer

30) Krakow, Poland, 20/03/2015

WCLI Symposium

Keynote speaker: “Keynote speaker: “Soft tissue management with diode and erbium lasers during esthetic procedures including laser bleaching “

31) Bucharest, Romania 09/05/2015

6th WFLD-ED Congress

Keynote speaker: “Introducing Er,Cr:YSGG laser bleaching “

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32) Aachen, Germany 01-03/10/2018

16<sup>th</sup> WFLD World Congress

Keynote speaker: “1918-2018: 100 years of light in dental aesthetics “

33) Ioannina, 18-20/10/2018

38th Panhellenic Dental Congress

Keynote speaker: “Clinical Applications of dental lasers”

34) Plovdiv, Bulgaria α 06-08/06/2019

17<sup>th</sup> ISLD World Congress

Keynote speaker : “Light and White. Utilizing lasers in Dental Aesthetics”

35) Zakynthos, Greece 15-16/06/2019

20<sup>th</sup> Ionian Dental Congress

Keynote speaker: “Clinical Applications of dental lasers”

36) Cairo, Egypt 26-28/05/2022

18<sup>th</sup> ISLD World Congress

Keynote Speaker: “Cutting efficiency evaluation during soft tissue surgery with all diode

lasers in the range between 400 nm - 1500 nm”

37) Porto, Portugal 06-08/06/2024

19<sup>th</sup> ISLD World Congress

Keynote Speaker: “Diode Lasers. A closer look to the underdogs of laser dentistry”

Various International Courses:

Applied endodontics, Crown and bridge restorations, Implantology & Attachments,

Bleaching Trays & Mouthguards, Occlusion, Shade-taking, Dental Photography

Languages Greek - native language

English - spoken and written fluently

German - basics

Italian - basics