a) Selected Full-length Journal Articles

*indicates contributing as the first and/or corresponding author


**b) Invited Contributions/Special Lectures**

1- Sadra A. A non-invasive method to control the quality of composite restorations. Invited Speaker, *University of Sao Paulo and Campinas Dental Society*, Sao Paulo, Brazil. June 18, 2016 (planned).


Sadr A. Recent dental composites; can we eventually bulk-fill? Invited Speaker, The Master Course on Composite Restorations, Tokuyama Dental, Tokyo, Japan. May 23, 2014.

Sadr A. Evaluation of composite restorations in vitro by OCT and its clinical relevance. Invited Speaker, Continuing Education Course of Dental Alumni Association, Tokyo Medical and Dental University, Tokyo, Japan. May 18, 2014.


Sadr A. Non-ionizing In-depth Dental Imaging by Optical Coherence Tomography: A Benchtop to Chairside Development Story, Invited Speaker, TMDU International Summer Program (ISP 2013), Tokyo, Japan, August 27, 2013.

Sadr A. Time-resolved and Quantitative Analysis of Dental Structures by OCT, Invited Speaker, 1st International Symposium on Optical Coherence Tomography in Dentistry, Tokyo, Japan, June 20, 2013.


Sadr A. Optical Coherence Tomography from Basic Research to Clinical Applications, Invited Speaker, Continuing Education Program (accredited), University of Southern California, Los Angeles, CA, United States, September 19, 2012.

Sadr A. Optical Coherence Tomography for Diagnosis and Monitoring of Caries Lesions, Invited Speaker, Faculty Development Program, University of British Columbia, Vancouver, Canada, May 23, 2012.

Sadr A. The utility of SS-OCT for research and development of new composite materials. Invited Seminar, Tsukuba Dental R&D Center, Tokuyama Corp., Tokyo, Japan, December 12, 2011.

Sadr A. Innovative research on the characterization of dental restorative composite materials, 89th Open Seminar of Tooth and Bone GCOE, IRCMSTBD, Tokyo Medical and Dental University, Tokyo, Japan, November 14, 2011.


Sadr A. Optical properties of enamel and dentin, 65th Open Session of the Tooth and Bone GCOE, IRCMSTBD, Tokyo Medical and Dental University, Tokyo, Japan, November 15, 2011.


Sadr A. Optical Coherence Tomography (OCT): Non-invasive Diagnosis for Dentistry, 33rd Open Session of Tooth and Bone GCOE, IRCMSTBD, Tokyo Medical and Dental University, Tokyo, Japan July 6, 2009.


Sadr A. Material Testing in Dentistry, School of Mechanical and Aerospace Engineering, Oklahoma State University, Stillwater, OK, USA. March 20, 2007.
c) Selected Conference Abstracts


**d) Books**


**e) Patents**

- Ellipsometric characterization of tooth surface through refractive index. (JP Patent filed, pend.)

**f) Software and website development**

1- Sadr A, Analytics Japan Co., Ltd. Gap Analyzer: OCT signal processor for dental composites defect analysis (ImageJ plugin, see related publications)

2- Sadr A, Analytics Japan Co., Ltd. DEM Analyzer: OCT signal processor for clinical and in vitro de/remineralization analysis (ImageJ plugin, see related publications)

3- Sadr A, Nakashima S. TMReckon: analysis for transverse microradiography of dental hard tissue (VBA, Excel, see related publications)

4- Nakashima S, Sadr A, Tim Wilkinson. Revesk: analysis of ion concentrations and degree of saturation of calcium phosphate solutions (VBA, Excel, see related publication)

5- Cho E, Sadr A, Ratoc Engineering. Filler trace: analysis of dental composite shrinkage vectors by filler tracing (TRI/3D Bone plugin, see related publication)

6- Sadr A, Laboratory equipment management and publication auto-archiving online system; http://www.tmdu.net

7- Sadr A, Society homepage, online membership database and payment tool for IAAD; http://www.adhesivedentistry.org

**Biography:** [https://dental.washington.edu/people/alireza-sadr/](https://dental.washington.edu/people/alireza-sadr/)