

Curriculum Vitae



1) Personal Details:

Name: **First** **Middle** **Last**
Mohamed Ibrahim Mohamed El-Anwar

Currently: Professor of Applied Mechanics - head of Mechanical Engineering Dept., National Research Centre (NRC), Egypt.

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Date & Place of birth: 16 / 3 / 1973 - Giza – Egypt.

Sex: Male **Religion:** Muslim

Marital Status: Married

Nationality: Egyptian

Army Service: Exempted

2) Educational Qualifications:

University	Date / Year		Type of Certificate Diploma / Degree	Date Awarded
	From	To		
Cairo University	2000	2005	Ph.D. in Mechanical Design	Aug, 2005
Cairo University	1996	2000	M.Sc. in Mechanical Design	Mar., 2000
Cairo University	1990	1995	B. Sc. in Aerospace Eng.	July, 1995

3) Field Specialization:

Type of Diploma / Degree	Specialization	Title of Proj. / Thesis
Professor / Associate Prof.	Mechanical Design and Production	Applied Mechanics
Ph.D. in Mechanical Design	Mechanical Engineering	Modeling of Molten Steel Behavior Inside Molds of Continuous Casting
M.Sc. in Mechanical Design	Mechanical Engineering	Construction, Performance Evaluation and Proposals For Upgrading NIS Torque Standard Machine.
B. Sc. in Aerospace Engineering	Mechanical Engineering	Design of Propulsion Systems.

4) Patents:

- “**New Submerged Entry Nozzle design to enhance molten steel behavior inside molds of thin slabs continuous casting**”, Egyptian Patent Office, **24621-Oct. 2009**.
- “**Lateral plate for early loading on dental implants**”, Egyptian Patent Office, **27932-Mar. 2017**.

5) Awards:

- “**Best Ph.D. Thesis in Engineering Fields (Year 2005)**”, awarded by National Research Centre.

6) Training Courses:

1. **National Research Centre - Cairo**
Elsevier Solutions for research management
Pure, Scopus, Scival, Knovel, ... - 2016 till now
2. **National Research Centre - Cairo**
Heads of Departments in-house training – Oct.-Dec. 2016
3. **Egyptian Center for Technology - Cairo**
Labview and sensors – July 2008.
4. **Mechanical Engineers Association - Cairo**
Industrial Molds – Design and Usage – February 2008
5. **Association Of Egyptian American Scholars**
"Leadership Competencies and Core Management Skills" – NRC, Cairo, Egypt - March 2007
6. **RITSEC**, “Deployment Course: Knowledge Innovation Practitioner”, Cairo, Egypt – Jan.-March. 2006.
7. **RITSEC**, “Knowledge Innovation Practitioner”, Cairo, Egypt – Nov.– Dec. 2005.
8. **Huazhong Numerical Control (HCNC) – Wuhan - China**
2nd International Workshop on CNC Technologies – Sept. 2005
9. **Mechanical Engineers Association - Cairo**
Advanced & New Materials Technologies – December 2002
10. **UKAS/NIS:**
Uncertainty Evaluation - March 1998.
11. **Physikalisch Technische Bundesanstalt (PTB) – Braunschweig – Germany** - Torque measurement / calibrations laboratory.
Upgrading on design of torque calibration machines, calibration of static torque measuring devices and torque tools - July 1997 to February 1998.

12. **DGQ/NIS:**

Quality Systems / Management – ISO 9000 - Dec. 1996.

13. **General Motors Egypt**

General training about automotive industry - August 1995.

7) Work Experiences:

1. **Professor - National Research Centre – Egypt**
(**Oct. 2016 up till now**).
 - * **Head** of Mechanical Engineering Department
 - * Mechanical Design Consultancy – Modeling – Analysis
2. Postdoctoral Researcher - **Michigan State University, MI, USA**
(March – September **2015**)
 - * Mechanical Engineering Department
 - * Urban Wind Turbine Design.
3. Visiting Researcher - **Michigan State University, MI, USA**
(July – September **2008**, September – November **2010**, and June – November **2011**)
 - * Mechanical Engineering Department
 - * Mechanical Design – Flow control / measurements
4. **Associate Professor - National Research Centre – Egypt**
(**July 2011 to Oct. 2016**).
 - * Mechanical Engineering Department
 - * Mechanical Design Consultancy – Modeling – Analysis
5. Researcher - **National Research Centre – Egypt**
(October 2005 to June 2011).
 - * Mechanical Engineering Department
 - * Mechanical Design Consultancy – Modeling – Analysis
6. Researcher Assistant - **National Research Centre – Egypt**
(June 2002 to October 2005).
 - * Mechanical Engineering Department
 - * Modeling (simulating) the molten Steel (metal) behavior inside continuous casting thin slab molds.
7. Researcher Assistant - **National Institute for Standards - Egypt**
(September 1999 to June 2002).
 - * Force and Material Metrology Department
 - * Upgrading (automation) the Egyptian national standard for torque, Force / Torque calibrations, and Material testing.
8. Measurement Engineer - **National Institute for Standards – Cairo, Egypt.** (June 1996 to September 1999)
 - * Force and Material Metrology Department

- * Design, construction, and performance evaluation of the Egyptian national standard for torque, Force / Torque calibrations, and Material testing (Hardness, Fatigue, Impact, ... etc.).
- 9. Material Handling Engineer - **General Motors Egypt** – Sixth of October city, **Egypt**. (September 1995 to June 1996)
 - * Lean manufacturing and material handling department
 - * Project for reducing parts loss and damage on production lines.

8) Teaching Experiences:

- 1- National Research Centre**
(Training Center – Advanced Software Unit)
 - Report Writing, Presentation Skills, Executive Secretary
 - AutoCAD, Inventor, MS Office, Visual Basic
 - Finite Element Method with ANSYS examples.
- 2- Higher Technological Institute – Sixth of October City Branch**
(Academic year **2014-2015**): Mechanical Drawing.
- 3- Canadian International College – CIC – Cairo**
(Academic years **2006-2007**): CAD/CAM, Material Science, and Physical Metallurgy.
- 4- Thebes Academy for Science – Maadi - Cairo**
(Academic years **2003-2009**): Mechanical Drawing/Descriptive Geometry – Programming I - Computer Graphics.
- 5- Faculty of Engineering – Sixth of October University**
(Academic year **2002-2003**): Mechanical Drawing/Descriptive Geometry – Mathematics I – Statistics/Probability – Metallurgy.

9) Books: English and Arabic

1- Mohamed El-Anwar, Raafat Tamam, Rami M. Galal. Stresses Around dental Implants Protheses "Cementation Effect". (ISBN: **978-3-659-83451-6**), LAP LAMBERT Academic Publishing, Germany, 2016.

2- كتيب لتبسيط العلوم: التحليل الهندسي للقوى الواقعة على مكونات الفم بطريقة العناصر المحددة باستخدام الحاسوب – Finite Element Analysis ، رقم إيداع 2013\4151 – دار الكتب المصرية.

10) Translations: English to Arabic

- 1- "Ducted Fans for Model Jets", by: David James; Dar El-Farouk
- 2- "Measuring and Marking Metals", by: Ivan Law; Dar El-Farouk.
- 3- "Foundry Work for the Amateur", by: Terry Aspin; Dar El-Farouk.

11) Scientific Associations / Societies:

- **Egyptian Engineers Syndicate, Member** 2/3406878/1995/2
- **International Society for Science and Engineering, Head of Directors Board**, EG 01.

12) Scientific Supervision:

Participating in the supervision of researches leading to M.Sc. and Ph.D. degrees: **Granted:** 11 **M.Sc.** degree, 4 **Ph.D.** degree.
Running: 4 **M.Sc.** degree, 1 **Ph.D.** degree.

13) Research Projects:

1. " Manufacturing, Evaluation and testing of cascaded VAWT design equipped with Savonius VAWT", **PI**, NRC internal project (code: 12040104), **2019-2021**.
2. " Redesign and production of some Endoscopic Instruments and Implants", **PI**, Project funded by Academy of Scientific Research and Technology (ASRT), **2017-2020**.
3. "New design for the first Egyptian rotary Endodontic file", **member**, NRC internal project (code: 11090102), **2016-2019**.
4. " Redesign of some Endoscopic Instruments and Implants (GIT and joints)", **PI**, NRC internal project (code: 11090336), **2016-2019**.
5. " Educational Biomaterial CD (DentLab I & II)", **Member**, NRC internal project (code: 11090101), **2016-2019**.
6. " New Design of Renewable Energy System for Rural Areas", **Co-PI**, NRC internal project (code: 10060301), **2013-2016**.
7. " Technological and Engineering Development for Production of Desalination Hollow Fiber Membranes", **Member**, Multi-National project, **2008-2018**.
8. "A Study of the Flow Structure Near a Stationary and an Oscillating Impingement Plate in a Semi-Confined Impinging Jet.", **PI** , US-EG project (code: BIOI-005 02), **2007-2010**.

9. "Optimal Structural Design of Wind Generators Suitable for Egyptian Environment.", **Co-PI**, NRC internal project (code: 906201 S), **2007-2010**.
10. "Environmental Friendly Hybrid Energy System for Remote Areas.", **Member**, Academy of Scientific Research, **2002-2007**.

14) Conferences / workshops:

- **Applied Mechanics ... Industrial Solutions**, Workshop **Chairman**, NRC, 7th of July 2019.
- **Scientific Research and Agricultural investment**, Workshop **Lecturer**, NRC, 3rd of July 2019.
- **Energy and Water Challenges ... Studies and Solutions**, Workshop **Chairman**, NRC, 7th of April 2019.
- **NCSTE / STI evaluation Workshop**, **Attending**. Beijing, China, 3-14 November 2018.
- **Arab International Industrial Conference**, **Organiser**, NRC, 6-8 May 2018.
- **2017 Pure International Conference**, **Attending**. Barcelona, Spain, 10-11 October 2017.

15) List of Publications:

SCOPUS ID: **36672764400**

ORCID: orcid.org/0000-0001-9840-0579

web of science Researcher Id: **P-5772-2016**

Google Scholar: <https://scholar.google.com/citations?hl=en&user=WPykrPoAAAAJ>

Journal Articles:

- 1- Waly, A. S., Souror, Y. R., Yousief, S. A., Alqahtani, W. M. S., & El-Anwar, M. I. Pediatric stainless-steel crown cementation finite element study. *European Journal of Dentistry*. **2020; online first**
Doi:10.1055/s-0040-1715915
- 2- Morsi TS, Hussein GAF, **El-Anwar MI**. Stress Distribution of Different Endocrown Retained Bridge Designs Replacing Missing Upper First Molar (Finite Element Analysis Study). *Dent Adv Res*. **2020;5: 169.**
DOI: 10.29011/2574-7347.100069
- 3- Yousief SA, Al Qahtani W, Alsubhi JAA, Tulbah WHA, Abbas MT, Yamani NA, Rami M Galal RM, **El-Anwar MI**. Finite Element Study on Posterior Three-Unit Fixed Dental Prosthesis Made from Different Materials. *EC Dental Science*. **2020;19(6):37-43.**
- 4- Al-Zordk W, Ghazy M, **El-Anwar M**. Stress Analysis Around Reduced-Diameter Zirconia and Titanium One-Piece Implants With and Without Microthreads in the Neck: Experimental and Finite Element Analysis. *Int J Oral Maxillofac Implants*. **2020 Mar/Apr; 35(2): 305-312.**
Doi: 10.11607/jomi.7419.
- 5- Hafez N, **El-Anwar M.I**, Atia M.R.A. Enhancing the Design of Arthroscopic Shaver to Reduce Stresses Experienced. *Journal of Physics: Conference Series*. **2020; 1447(1): Article number 012058.**
- 6- **EL-Anwar MI**, Aboelfadl AK. Comparing Different Bar Materials for Mandibular Implant Supported Overdenture: Finite Element Analysis. *Indian J Dent Res*. **2019;30(5):716-721.**
- 7- kandil B, Hamdy A, Aboelfadl A, **El-Anwar M**. Effect of ceramic translucency and luting cement shade on the color masking ability of laminate veneers. *Dental Research Journal*. **2019; 16(3):193-199.**
- 8- Elkoumy M.M, Fathy A.M, Megahed G.M, El-Mahallawi I., Ahmed H, **El-Anwar M**. Empirical Model for Predicting Process Parameters during Electric Arc Furnace Refining Stage Based on Real Measurements. *Steel Research International*. **2019; DOI: 10.1002/srin.201900208:1-10. (Article number 1900208)**
DOI: 10.1002/srin.201900208

- 9- **El-Anwar M**, Osman W. Finite Element Study On Arthroscopic Anchor Design Aspects. Open Access Maced J Med Sci. **2019; 7(4):628-631.**
DOI: <https://doi.org/10.3889/oamjms.2019.164>
- 10- Elhiny OA, **El-Anwar MI**. The dilemma of functional therapy: the new EFA to do or not to do?. Bulletin of the National Research Centre **2018;2: 42:23.**
DOI: <https://doi.org/10.1186/s42269-018-0024-3>
- 11- El-Zawahry MM, Eman M. Ibraheem EM, Nassani MZ, Ghorab SA, **EL-Anwar MI**. Stress analysis of mandibular implant overdentures retained with one, two or four ball attachments: A finite element study. Dental Research Journal. **2018; 15:437-443.**
- 12- Elkoumy M, **El-Anwar M**, Fathy A, Megahed G, El-Mahallawi I, Ahmed H. Computational Simulation Model for Metallurgical Effects during EAF Refining Stage: Waiting and Arcing Time. ISIJ International. **2018; 58 (9): 1669–1678.**
DOI: <http://dx.doi.org/10.2355/isijinternational.ISIJINT-2018-224>
- 13- Wazeh AM, **El-Anwar MI**, Atia RMG, Mahjari RM, Linga SA, Al-Pakistani LMA, Yousief SA. 3D FEA Study On Implant Threading Role on Selection of Implant and Crown Materials. Open Access Maced J Med Sci. **2018; 6(9): 1702-1706.**
DOI: <https://doi.org/10.3889/oamjms.2018.331>
- 14- **El-Anwar MI**, Elzahaby AM, Khalil MK, Mohamed AS. Small Vertical Axis Wind Turbine Design Case study: 200 Watts for use on top roofs in Egypt.” IOSR Journal of Engineering (IOSRJEN). **2018; 8(8): 79-83.**
- 15- Al Qahtani W.M.S., Yousief S.A., **El-Anwar M.I**. Recent Advances in Material and Geometrical Modelling in Dental Applications. Open Access Maced J Med Sci. **2018; 6(6):1138-1144.**
DOI: <https://doi.org/10.3889/oamjms.2018.254>.
- 16- Al Qahtani W.M.S., **El-Anwar M.I**. Advanced computational methods in Bio-Mechanics. Open Access Macedonian Journal of Medical Sciences (OAMJMS). **2018;6(4):742-746.**
DOI: <http://dx.doi.org/10.3889/oamjms.2018.149>
- 17- Hamed H.A., Marzook H.A., Ghoneem N.E., **El-Anwar M.I**. Angulated dental implants in posterior maxilla FEA and experimental verification. Open Access Maced J Med Sci. **2018; 15; 6(2):397-401.**
Doi: [10.3889/oamjms.2018.077](https://doi.org/10.3889/oamjms.2018.077)
- 18- Elkoumy M.M, **El-Anwar M.I**, Fathy A.M, Megahed G.M, El-Mahallawi I, Ahmed H. Simulation of EAF refining stage. Ain Shams Engineering Journal. **2018; 9(4): 2781-2793.**

- 19- Tewfik S.R., Abulnour A.M.G., Shaalan H.F., **El-Anwar M.I.**, Ali S.S., Abed K.A., Badr M.A., Sorour M.H. Analysis of some engineering parameters relevant to the performance and reliability of hollow fiber spinning system. *ARNP Journal of Engineering and Applied Sciences*. **2017; 12(15): 4574-4587.**
- 20- Sabit A.M., Mohsen C.A., **El-Anwar M.I.**, Metawally M.M. An In-Vitro Study of Crowned Endodontically Treated Immature Permanent Central Incisor Reinforced with Different Types of Aesthetic Posts Using FEA. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*. **2017; 16(8): 82-87.**
DOI: [10.9790/0853-1608028287](https://doi.org/10.9790/0853-1608028287)
- 21- **EL-Anwar MI**, EL- Zawahry MM, Nassani MZ, Ibraheem EM, ElGabry HS. New implant selection criterion based on implant design. *European Journal of Dentistry*. **2017; 11(3): 186-181.**
- 22- **El-Anwar MI**, El-Taftazany EA, Hamed HA, Abd ElHay MA. Influence of Number of Implants and Attachment Type on Stress Distribution in Mandibular Implant-Retained Overdentures: Finite Element Analysis. *Open Access Maced J Med Sci*. **2017; 5(2):244-249.**
Doi:[10.3889/oamjms.2017.047](https://doi.org/10.3889/oamjms.2017.047).
- 23- Moussa AR, ElGabry HS, EL-Zawahry MM, **EL-Anwar MI**. Influence of V-shaped palatal vault on denture base materials' characteristics: A finite element analysis. *Medical Research Journal (ISSN 2090-6242)*. **2016; 15(2):76–81.**
- 24- **El-Anwar MI**, Yousief SA, Kataia EM, Abd El-Wahab TM. Finite Element Study on Continuous Rotating versus Reciprocating Nickel-Titanium Instruments. *Braz. Dent. J.* **2016; 27(4): 436-441.**
Doi: [10.1590/0103-6440201600480](https://doi.org/10.1590/0103-6440201600480)
- 25- EL-Zawahry MM, **El-Anwar MI**, EL-Mofty MS, EL-Ragi AF, Moussa AR, ElGabry HS, Shebaita AM. Implant angulations effect on bone stresses: clinical and fea study. *Research Journal of Pharmaceutical, Biological and Chemical Sciences (Res J Pharm Biol Chem Sci)*. **2016; 7(3):2448-2454.**
Url: http://www.rjpbcs.com/2016_7.3.html
- 26- **El-Anwar MI**, Ghali RM, Aboelnagga M. 3D Finite element study on: bar splinted implants supporting partial denture in the reconstructed mandible. *OA Maced J Med Sci*. **2016; 4(1):164-71.**
Doi: [10.3889/oamjms.2016.027](https://doi.org/10.3889/oamjms.2016.027)
- 27- **El-Anwar MI**, AL-Azrag KE, Ghazy MH, Dawood LE. Influence of implant-abutment angulations and crown material on stress

- distribution on central incisor: a 3D FEA. *Brazilian Journal of Oral Sciences (Braz J Oral Sci)*. **2015;14(4):323-329**.
 Doi: [10.1590/1677-3225v14n4a13](https://doi.org/10.1590/1677-3225v14n4a13)
- 28- Soliman TA, Tamam RA, Yousief SA, **El-Anwar MI**. Assessment of stress distribution around implant fixture with three different crown materials. *Tanta Dental Journal*. **2015;12(4):249-58**.
 Doi:[10.1016/j.tdj.2015.08.001](https://doi.org/10.1016/j.tdj.2015.08.001)
- 29- **El-Anwar MI**, Yousief SA, Soliman TA, Saleh MM, Omar WS. A Finite element study on stresses distribution of two different attachment designs under implant supported overdenture. *The Saudi Dental Journal*. **2015;27(4):201-7**.
<http://dx.doi.org/10.1016/j.sdentj.2015.03.001>
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4642187/>
- 30- Tmmam RA, **El-Anwar MI**, Fawzy UM, Yousief SA. The biomechanical effect of suprastructure loading and materials on stress state of implant supported single restorations 3d finite element analysis. *Int J Dent Health Sci*. **2015; 2(5):1071-1079**.
- 31- El Banna KA, Mohsen CA, Hassan MR, **El-Anwar MI**. Effect of design and material on vertical margin gap distance of all-ceramic bridges. *International Journal of Sciences & Applied Research (IJSAR)*. **2015; 2(5): 23-29**.
 URL: <http://www.ij sar.in/Download/Papers/May%202015/6.pdf>
- 32- **M.I. El-Anwar**, K. Zhang, A. Naguib, A.M. Abouel-Fotouh. Pressure fluctuations produced by a jet impinging on a wall at normal and oblique incidence. *Egypt J Appl Sci*. **2015;30(1):13-23**.
- 33- El-Zawahry MM, El-Ragi AF, **El-Anwar MI**, Ibraheem EM. The biomechanical effect of different denture base materials on the articular disc in complete denture wearers: a finite element analysis. *OA Maced J Med Sci*. **2015; 3(3):455-461**.
<http://dx.doi.org/10.3889/oamjms.2015.074>
 PMID: [PMC4877839](https://pubmed.ncbi.nlm.nih.gov/2877839/)
- 34- **El-Anwar MI**, Mandorah AO, Yousief SA, Soliman TA, Abd El-Wahab TM. A Finite Element Study on: Mechanical Behavior of Reciprocating Dental Files. *Brazilian Journal of Oral Sciences (Braz J Oral Sci)*. **2015;14(1):52-59**.
<http://dx.doi.org/10.1590/1677-3225v14n1a11>
- 35- **El-Anwar MI**, Tamam RA, Fawzy UM, Yousief SA. The effect of luting cement type and thickness on stress distribution in upper premolar implant restored with metal ceramic crowns. *Tanta Dental Journal*. **2015;12(1):48-55**.
<http://dx.doi.org/10.1016/j.tdj.2015.01.004>

- 36- Abou El Yazeed M, El Zawahry M, **El-Anwar M**, Abou Zeid W. Three dimensional finite element analysis of a traumatized avulsed maxillar permanent central incisor in children. *Current Science International* (ISSN 2077-4435). **2015; 4(1): 19-26.**
 URL: <http://www.curreweb.com/csi/2015/19-26.pdf>
- 37- AL-Azrag KI, Ghazy MH, **El-Anwar MI**, Dawood LE. Influence of implant abutment angulations on fracture resistance and stress analysis of different all-ceramic restoration. *Mansoura Journal of Dentistry (MJD)*. **2014;1(4):94-99.**
- 38- Fathy SM, **El-Anwar MI**, El-Fallal AA, El-Negoly SA. Three-dimensional finite element analysis of lower molar tooth restored with fully milled and layered zirconia crowns. *J Dent Health Oral Disord Ther*. **2014;1(4): 00022.**
<http://dx.doi.org/10.15406/jdhodt.2014.01.00022>
- 39- El-Banna KA, **El-Anwar MI**, Salem SK. Fracture resistance of two all ceramic posterior fixed partial dentures designs: a finite element analysis. *Egyptian Dental Journal (Egypt Dent J)*. July **2014; 60 (3): 3303-3312.**
- 40- **El-Anwar MI**, Mohammed MS. Comparison between two low profile attachments for implant mandibular overdentures. *Journal of Genetic Engineering and Biotechnology*. **2014; 12(1): 45–53.**
[Doi:10.1016/j.jgeb.2014.03.006](https://doi.org/10.1016/j.jgeb.2014.03.006)
- 41- **El-Anwar MI**, El-Mofty MS, Awad AH, El-Sheikh SA, El-Zawahry MM. The effect of using different crown and implant materials on bone stress distribution: a finite element study. *Egyptian Journal of Oral & Maxillofacial Surgery (EJOMS)*. May **2014; 5(2): 58-64.**
[Doi: 10.1097/01.OMX.0000444266.10130.4c](https://doi.org/10.1097/01.OMX.0000444266.10130.4c)
- 42- **El-Anwar MI**, El-Mofty MS, Fawzy UM. The influence of different gingival thickness on stress to implant-supported overdenture and bone. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*, e-ISSN: 2279-0853. **2014; 13(3): 17-23.**
- 43- AbdelAzim A, Zaki A, **El-Anwar M**. Single molar restoration: wide implant versus two conventional. *Implant Tribune, Dental Tribune United Kingdom Edition*, published by Dental Tribune Asia Pacific Ltd, January **2014; 4(1): 12-14.** [*Re-Publishing by the publisher*]
- 44- **El-Anwar MI**, Fawzy UM, Mohamad HA, Tamam RA, Yousief SA. Effect of different abutment materials of implant on stress distribution using three-dimensional finite element analysis. *Medical Research Journal* (ISSN 2090-6242). **2013; 12(2):115–123.**
- 45- AbdelAzim A, Zaki A, **El-Anwar M**. Single molar restoration: wide implant versus two conventional. *CAD/CAM international magazine*

of digital dentistry is published by Dental Tribune Asia Pacific Ltd, (ISSN 1616-7390), **2013; 4(1): 22-26.** [*Re-Publishing by the publisher*]

- 46- AbdelAzim A, Zaki A, **El-Anwar M.** Restauration d'une molaire unitaire – Implant de large diamètre versus deux implants conventionnels. CAD/CAM Le magazine international de la dentisterie numérique, édition française est un magazine du groupe Dental Tribune International et paraîtra annuellement avec un numéro par trimestre, (ISSN 2196-3967), **2013; 4(3): 20-25.** [*Re-Publishing by the publisher in French*]
- 47- AbdelAzim A, Zaki A, **El-Anwar M.** Restauration d'une molaire unitaire – Implant de large diamètre versus deux implants conventionnels. Implants Le magazine international d'implantologie Orale , édition française est un magazine du groupe Dental Tribune International et paraîtra annuellement avec un numéro par trimestre. **2012; 1(1): 14-17.** [*Re-Publishing by the publisher in French*]
- 48- Zaazou M, **El-Anwar M**, El-Zawahry M, Abou Elnaga M. The effect of post materials on stress distribution on endodontically treated lower first premolar: finite element analysis study. Australian Journal of Basic and Applied Sciences (ISSN 1991-8178). **2012; 6(12): 492-498.**
- 49- **El-Anwar MI**, El-Zawahry MM, El-Mofty MS. Load transfer on dental implants and surrounding bones. Australian Journal of Basic and Applied Sciences (ISSN 1991-8178). **2012; 6(3): 551-60.**
- 50- **El-Anwar MI**, El-Zawahry MM. A three dimensional finite element study on dental implant design. Journal of Genetic Engineering and Biotechnology. **2011; 9(1): 77–82.**
Doi:10.1016/j.jgeb.2011.05.007
- 51- Eltaftazani I, Moubarak A, **El-Anwar M.** Locator attachment versus ball attachment: 3-dimensional finite element study. Egyptian Dental Journal (Egypt Dent J). **2011; 57(2): 73-85.**
- 52- AbdelAzim A, Zaki A, **El-Anwar M.** Single molar restoration: wide implant versus two conventional. International Magazine of Oral Implantology (**implants**), **Germany**, (ISSN 1868-3207), **2010; 11(4): 6-10.**
- 53- EL Zawahry MM, **El-Anwar MI**, El-ragi AF. Different bone resorption levels effect on stresses distribution for different implant design. Journal of American Science (ISSN: 1545-1003). **2010; 6(12):1521-5.**
<http://www.americanscience.org>

- 54- W. Jiang, K. Zhang, A. Naguib, **M. El-Anwar**, and A.M. Abouel-Fotouh. Array Measurements of the Unsteady Surface Pressure in a Sharp-Edged Impinging Jet, Proceeding of 40th Fluid Dynamics Conference and Exhibit 28 June - 1 July **2010**, AIAA 2010-4851, Chicago, Illinois, **USA**.
- 55- El-Zawahry M, **El-Anwar M**, El-Ragi A, Jandali R. Studying the influence of different implant designs subjected to various loading types on bone stress distribution. The Egyptian Medical Journal of the National Research Centre (**MJNRC**). **2009**; **8(2)**: **23-27**.
- 56- Tolba ET, El-Sayed EM, Radi AM, **El-Anwar MI**. Development and verification of computed tomography-based finite element model for the L5 vertebral body. Journal of Biophysics and Biomedical Sciences (ISSN 2090-0546). **2008**; **1(2)**: **63-68**.

Conference Papers:

- 1- Hafez N, **El-Anwar M.I**, Atia M.R.A. Enhancing the Design of Arthroscopic Shaver to Reduce Stresses Experienced. The 4th International Conference on Advanced Technology and Applied Sciences. 10-12 Sept. 2019, **Cairo, Egypt**.
- 2- Basil Abdel-Megied, and **Mohamed El-Anwar**, "Scalable solar tower for rural areas: Experimental study and CFD analysis comparison", Proceeding of 3rd International Conference on Energy Systems and Technologies (**ICEST 2015**), 16-19 Feb. 2015, **Cairo, Egypt**
- 3- Basil Abdel-Megied, and **Mohamed El-Anwar**, Solar Tower Experimental Study and CFD Analysis Comparison, Proceeding of 13th International Conference on Sustainable Energy Technologies (**SET2014**), 25-28th **August, 2014, Geneva, Switzerland**. (code: SET2014-E10080)
- 4- B. M. Kamel, **M. I. El-Anwar** and N. M. El-Chazly, "Design of Hydrogen Storage Tanks Fabricated From Composite Materials", Proceedings of the 16th International Conference on Applied Mechanics and Mechanical Engineering (16th Int. AMME Conference, 27-29 May, **2014, Cairo, Egypt**). (code: SM-9, pp. 134-140).
- 5- **Mohamed El-Anwar**, and Mohamed Elzawahry, "New Implant Selection Criterion Based on Implant Design", 10th Makkah Dental Conference, 2-3 April **2013, Makkah, KSA**.
- 6- **Mohamed I El-Anwar**, Mahmoud M. Saleh, and Wael S. Omar, "Stresses Distribution of Two Different Attachment Designs Under Implant Supported Overdenture – A Finite Element Study",

- Proceedings of Association of Egyptian American Scholars Conference, 24-25 Dec. **2012**, Cairo University, **Cairo, Egypt**.
- 7- Karam Y. Maalawi and **Mohamed I. El- Anwar**, "A Model for Wind Turbine Blade with Enhanced Torsional Stability", Proceedings of the 1st WSEAS International Conference on Energy and Environment Technologies and Equipment (EEETE '12) (ISBN: 978-1-61804-122-7), 20-22 Sept. **2012**, Tomas Bata University in Zlin, **Czech Republic**.
 - 8- Mohamed Elzawahry, Ahmed A. Elragi, **Mohamed I. El-Anwar**, and Khaled A. Hussein, "Biomechanical Effect on Articular Disk Using Different Denture Base Materials", (*Abstract – oral presentation*), Association of Egyptian American Scholars Conference –American University in Cairo (AUC) , 27-28 Dec. **2010**, **Cairo, Egypt**.
 - 9- I. ElTaftazani, A. Moubarak, and **M.El-Anwar**, "Locator Attachment Versus Ball Attachment: 3-Dimensional Finite Element Study", (*Abstract – oral presentation*), IADR Exhibition, July 14-17, **2010**, Barcelona, **Spain**.
 - 10- **Mohamed El-Anwar**, and Mohamed Elzawahry, "A Three Dimensional Finite Element Study on Dental Implant Designs", (*Abstract – oral presentation*), التقانات الحيوية الصناعية: الوضع الحالي و الآفاق المستقبلية, 14-15 July **2010**, NRC, **Cairo, Egypt**.
 - 11- Mohamed Elzawahry, **Mohamed El-Anwar**, Ahmed Elragi, and Rami Jandali, "Studying the Influence of Different Implant Designs Subjected to Various Loading Types on Bone Stress Distribution", (*Abstract – oral presentation*), Association of Egyptian American Scholars Conference, 28-29 Dec. **2009**, Cairo University, **Cairo, Egypt**.
 - 12- **M.I. El-Anwar**, "Simple Technique to Build Complex 3D Solid Models", Proceeding of 19th International Conference on Computer Theory and Applications (**ICCTA 2009**), 17– 19 Oct. **2009**, **Alexandria, Egypt**.
 - 13- **M.I. El-Anwar**, K. Zhang, A. Naguib, and A.M. Abouel-Fotouh, "Pressure Fluctuations Produced by a Jet Impinging on a Wall at Normal and Oblique Incidence", Proceeding of 7th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, 28 June – 03 July **2009**, Krakow, **Poland**.
 - 14- M.A. Badr, K.A. Abed, A.A. El-Mallah and **M.I. El Anwar**, "Optimal Design of Hybrid Systems with Battery Storage", Proceeding of 4th European_Conference PV-Hybrid and Mini-Grid, 29-30 May **2008**, Glyfada, Athens, **Greece**.

- 15- **M.I. El-Anwar**, G.M. Megahed, M.K. Bedewy, M.G. El-Sherbiny, and N.M. El-Chazly, “New Design Of Submerged Entry Nozzle for Optimizing Thin Slab Casting Process”, Proceeding of 3rd International Conference on Scientific researches & its Applications, 3-5 May **2007**, Cairo University, **Cairo, Egypt**.
- 16- **M.I. El-Anwar**, G.M. Megahed, M.K. Bedewy, M.G. El-Sherbiny, and N.M. El-Chazly, “Some Design Aspects On Submerged Entry Nozzle In Thin Slab Casting Process ”, Proceeding of 2nd International Conference on Advances in Engineering Sciences & Technologies, 12-14 Nov. **2005**, NRC - **Cairo, Egypt**.
- 17- **M.I. El-Anwar**, G.M. Megahed, M.K. Bedewy, M.G. El-Sherbiny, and N.M. El-Chazly, “Simulation Of Fluid Flow in Thin Slab Casting Process”, Proceeding of 2nd International Conference on Advances in Engineering Sciences & Technologies, 12-14 Nov. **2005**, NRC - **Cairo, Egypt**.
- 18- A.E. El-Tawil, S.S. Kishk, A.M. Fawzy, M.A. Kenawy and **M.I. El-Anwar**, “Evaluation of Pressure Distortion Coefficient For 200 MPa Piston Cylinder Assembly “, Proceeding of 19th International Conference on Force, Mass & Torque **IMEKO TC3**, 19-23 Feb. **2005**, **Cairo, Egypt**.
- 18- **M.I. El-Anwar**, G.M. Megahed, M.K. Bedewy, M.G. El-Sherbiny, and N.M. El-Chazly, “Simulation Of Fluid Flow and Heat Transfer in Thin Slab Casting Process”, Proceeding of 9th International Mining, Petroleum, and Metallurgical Engineering Conference, 21-24 Feb. **2005**, **Cairo, Egypt**.