

## **Prof.Dr. Ali Sadiq Yasir Al-Ithari**

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Born: 1976

- B.Sc. in mechanical engineering from Babylon University at 1998.
- M.Sc. in material engineering from Babylon University at 2001.
- PhD in applied mechanics from University of Technology at 2007.
- Joined in summer school about the using of scanning g electron microscopy in biological and material application in Milano-Bicocca University in Italy from 8/9 to 8/10/2008.
- Joined to workshop in Maribor University/Mechanics and production department in Slovenia about the modern application of scanning electron microscopy from 23 to 24/9/2008.
- Certificate of joining in "Senior Leadership Training", held in University of Kufa 17-26/2019
- Work as manager assistance for engineering consultant bureau in Kufa University from 2004 to 2008.
- Work as labs manager in mechanic engineering department from 2008 to 20011.
- Work as head of mechanical engineering department from 2011 till 2017
- Work as Dean of Engineering Faculty/University of Kufa from 2017 till 2019

### **Research Interests:**

- 1- Composite materials properties and improvement these properties.
- 2-Failure of thermal furnaces in industrial foundations .
- 3-Improvement Mechanical properties for stainless steel .
- 4-Improvement mechanical properties of carbon steel .
- 5-Effcet of welding joint on steel properties .

### **Teaching Interest:**

- 1- Strength of Materials.
- 2- Modern Manufacturing Process.
- 3- Design of Machine Element and Machine System..
- 4- Material Properties and Improvement
- 5- Engineering Materials
- 6- Experimental Stress analysis/ Post Graduate
- 7- Measurement System / Post Graduate

### **Publishing papers:**

- 1-**Ali S. Yasir:** "The effect of fibers pre-stressing on tensile properties of glass fiber /epoxy composite materials". 1<sup>st</sup> Scientific Conference of Technical College in Najaf . 2008.
- 2-**Hussain A. Jawad, Y.M.R.F. Al-Hadith , Ali S. Yasir:** "Comparative investigation of the dental material ablation using laser radiation and focusing ion beam microscopy". Proceeding of summer school ,Milano ,Italy .2008.
- 3-**Ali S.Yasir :** "The Cooling Rate Effect on the Buckling Strength and Elastic Properties of Heated Martensitic Stainless Steel Columns". International Journal of Mechanical and Mechatronics Engineering , Vol.12, No.4 , 2012.
- 4- **Ali S.Yasir :** "Study the Effect of Welding Joint Location on the Fatigue Strength and Fatigue Life for Steel Weldment" . Asian Transaction on Engineering , Vol.2, Issue.4, 2012 .
- 5- **Luay S.Al-Ansari , Ali S.Yasir :** "Investigating the Effect of Thermal Cycle on the Linear and Non-Linear Deflection and Elastic Properties of Alloy Steel Cantilever Beam". International Journal of Applied Science and Technology.USA.Vol.2.No.8.2012 .
- 6- **Ali S.Yasir:** "Study the Effect of cooling rate on the Fatigue Strength and Fatigue Life of heated carbon steel bar". Mechanical Engineering Research . CANADA. , Vol.3No.2, 2013
- 7-**Ali S.Yasir:** "Improving the Fatigue Life of Steel Bars by Using the Nano-Coating Technology". International Journal of Engineering and Technology, Germany,Vol.3, No.4,2014.
- 8- **Ali S.Yasir, Mujid H.Enad, Ahmed A.Kadhim :** "Study the Effect of Steel Wires Pre-tension on the Bending and Adhesion Properties of Bead Ply in Rubber Tires". Kufa Journal of Engineering, Iraq, Vol.8, .No.3, 2018.
- 9- **Ali S.Yasir :**" Dynamic Behavior of Pre-tension Fiber Composite Plate" . Mechanics, Materials Science and Engineering Journal.Vol.13.2017.

- 10- Ali S.Yasir, Mujid H.Enad, Ahmed A.Kadhim :** "Effect of Steel Wires Pre-tension on the tensile Properties of Bead Ply in Rubber Tires". IOP Conference series: Materials science and engineering .433(2018)012077, doi:10.1088/1757-899X/4
- 11-Ali S.Yasir, Mujid H.Enad, Oday Kh.Mohammed, and Abbas Ali Dewan :** "Improvement The Hardness of High Chromium White Cast Iron by Coating with Nano Materials", International Journal of Mechanical Engineering and Technology (IJMET), Vol.9, No.7, pp.1169-1176, 2018 .
- 12- Ali S.Yasir, Mujid H.Enad, Oday Kh.Mohammed:** "Improvement The wear resistance of High Chromium White Cast Iron by Coating with Nano Materials", International Journal of Mechanical and Mechatronics Engineering (IJMME-IJENS), Vol.18, No.04, pp.121-126, 2018.
- 13- Ali Sadiq Yasir** "The Effect of Fiber Pre-Stressing on the Bending Strength of Composite Plate" 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, 17-19 DECEMBER 2019.
- 14- Ali Sadiq Yasir, Ali F.Al-Obaidi, Sabah M.Thahab**" Influence of adding TiO<sub>2</sub> Nano particles on the mechanical properties of welding joint for low carbon steel base plate by electric arc welding" , Journal of Engineering Science and Technology, Vol.15 , Issue 3, pp. 2077-2089, 2020.
- 15- Ali Sadiq Yasir, Ali F.Al-Obaidi, Sabah M.Thahab** " Effect of adding TiO<sub>2</sub> nanoparticles on the impact toughness for welding joints of mild steel", Australian journal of Mechanical Engineering, <https://doi.org/10.1080/14484846.2020.1816734>, 2020.
- 16- Ali Sadiq Alithari, Oday Khadem Mohammed ,** " Wear Resistance Improvement for Grinding Balls of Horizontal Cement Mill in Cement Plant by Nano-Coating Technique", Journal of Mechanical Engineering Research and Developments, Vol. 44, No. 1, pp. 17-27, 2020.
- 17- Ali Sadiq Alithari,** "Effect of Welding Joint Locations on the Buckling Strength of Long Slender Steel Bars", Journal of Mechanical Engineering Research and Developments, Vol. 44, No. 2, pp. 93-103, 2021.
- 18- Ali Sadiq Alithari, Layth Zbbal Abd UL Kareem and Nabeel AL-Zurfi,**" Influence of Adding Nano Coating Layers on the Hardness and Impact strength Properties for Low Carbon Steel", IOP Conf. Series: Materials Science and Engineering, 1094 (2021) 012137, doi:10.1088/1757-899X/1094/1/012137

### **Patents:**

- 1- Ali S.Yasir, Mujid H.Enad, Oday Kh.Mohammed,** "Using the Nano-coat to Improving the Wear Resistance for Lining of Cement Mill (WC-HVOF-1)", Iraqi patent (5794),11/06/2019.
- 2- Ali S.Yasir, Mujid H.Enad, Oday Kh.Mohammed,** " Design and Manufacture of Nano Thermal Barrier Coating System( HVOF-1) Lining for Cement Factories ", Iraqi Patent (6203),23/02/2020.