

# Curriculum Vitae

## 1-Personal Information

<b>Name</b>	<b>Assist. Prof. Dr. Khalid Hamid Rashid Al-Hadidi</b>
<b>Affiliation</b>	<b>Chemical Engineering Department, Environmental Pollution Engineering Branch, University of Technology</b>
<b>Mailing Address</b>	<b>Chem. Eng. Dep., University of Technology, Alsinaa Street No. 52, P.O. Box 35010, Baghdad-Iraq</b>
<b>Mobile</b>	<b>9647901823513</b>
<b>Email</b>	<b>80053@uotechnology.edu.iq alhadidikhalid@yahoo.com</b>
<b>Date of Birth</b>	<b>8 December 1965</b>
<b>Place of Birth</b>	<b>Baghdad / Rusafa</b>
<b>Nationality</b>	<b>Iraqi</b>
<b>Marital Status</b>	<b>Married, Three Children</b>



## 2-Scientific Rank

**Assistant Professor**

## 3-Research Area Interest

Corrosion Engineering and Protection Methods Use of Inhibitor to Reduce Corrosion Rates, Chemical Reaction Kinetics, Chemical Engineering, Thermodynamic Science, Quantum Chemistry, Optimization, Nanotechnology.

Further information can be found at:

<https://scholar.google.com/citations?hl=en&user=63wHAaAAAAAJ>

## 4-Education

<b>Date</b>	<b>Discipline</b>	<b>Degree</b>	<b>Institution</b>	
15 <sup>th</sup> Oct. 1988	Chemical Engineering	B. Sc	University of Baghdad, College of Engineering, Chemical Engineering Department	<b>Final year Project</b> : Ethylene Glycol Production Plant
28 <sup>th</sup> July. 2004	Anodizing and Chemical Conversion Coating	M. Sc	University of Baghdad, College of Engineering, Chemical Engineering Department	<b>Thesis Title</b> Anodizing of Aluminum ASA 6061 Using Chromic Acid
4 <sup>th</sup> Sep. 2014	Corrosion & its relation to the Transport Phenomena	Ph. D	University of Baghdad, College of Engineering, Chemical Engineering Department	<b>Thesis Title</b> : Corrosion Behavior of Carbon Steel in CO <sub>2</sub> - Containing Oilfield Produced Water

## **5- Management Posts**

- Member of the Branch Council of the Engineering of Pollution Engineering and Chemical Engineering 2016 – to date

## **6- Academic Experience**

### **1- Undergraduate Level**

- Mechanical Engineering & Strength of Materials (2014-2017)
- Corrosion Engineering (2016-to date)
- Mathematics (2016-2017)
- Industrial Engineering & Management (2017-2018)
- Environmental Devices and Analysis (2017-2018)

### **2- Postgraduate Level**

Not Found

## **7- Courses which invasion inside Country**

- Participated in Industrial Safety and Application it, State Co. of Electrical Industries, 7 – Days, 2 - 8 January 1989
- Paints Technology, Specialized Institute of Geometrical Industries, 6 – Days, 25 - 30 March 1995, Third on the course 89% Very Good
- Participated in Water Treatment Systems in Electrical Energy Generating Stations, General Committee For Training and Apprenticeship Al-Waziriyah, 14 – Days, 1 - 15 July 1996
- Participated in Methods of Studying and Training, General Committee For Training and Apprenticeship Al-Waziriyah, 6 – Days, 1 - 6 August 1997
- Apprenticeship to Qualification Examination / English Language, Languages College / University of Baghdad / The Consultant Office, 30 – Days, 7/8 - 9/9/1999, Successful in Succession 53 – 60
- Requirements of Administration Quality System ISO 9001-2000, General Company 17-April, 6 – Days, 20 - 25 January 2001, 1<sup>st</sup> on Course 90% Excellent
- Methods of Training and Development for Workers, College of Engineering/ University of Baghdad/Continuous Education Center, 6 – Days, 7-12 July 2001, 79% Good
- Apprenticeship for Higher Studies Students, University of Baghdad / Computer Center, 15-Days, 15/6 - 3/7 2002, Successful Only
- Apprenticeship for Higher Studies Students, University of Baghdad / Computer Center, 15-Days, 5/3 - 23/3 2005, Successful Only
- Methods of Studying, University of Technology /Continuous Education Center, 15-Days, 20/6 – 4/7/2010, Successful and appreciated Very Good
- Participated in The role of the virtual library in the development of scientific research, University of Technology – Iraq, 1-Day, 2012
- Participated in Catalyst Production Techniques in the field of Chemical Industry and Oil Refining, University of Baghdad-College of Engineering-Chemical Engineering Department, 1-Day, 28/5/2013
- Participated in Heterogeneous Reactions and the Role of Catalyst in the Design of Chemical Reactors, University of Technology – Iraq, 1-Day, 2013
- Participated in Seminar on the reality of the Iraqi cement industry and the prospects for its development, University of Technology – Iraq, 1-Day, 2013
- Participated in Seminar on quality between reality and ambition, University of Technology – Iraq, 1-Day, 2013

- Participated in Scientific seminar entitled (The role of scientific research in improving the quality of education and academic performance), University of Technology – Iraq, 1-Day, 2013
- Participated in Scientific seminar entitled (Chemistry and Chemical Engineering at the service of sustainable development), University of Technology – Iraq, 1-Day, 2013
- Participated in Seminar on Safety and security chemotherapy session, University of Technology – Iraq, 1-Day, 2014
- Participated in Modern Trends in the Quality of the Planning of University Scientific Method in Accordance with the Needs of the Labor Market and to Improve the Quality of Educational Outcomes, University of Technology – Iraq, 1-Day, 29/12/2014
- Participated in Future Prospects for the Development of the Oil Industry in Iraq, The Conference room at the Department of Control and Systems Engineering/ University of Technology/ Iraq, 1-Day, 6/4/2015
- Participated in Evaluation of Scientific Research Plan for the Company Midland Refineries Path and Strengthened with the Academic Side, Training Department Hall/Midland Refineries Company/ Baghdad/Iraq, 1-Day, 16/4/2015
- Participated in Intelligent Systems in Industry and Energy Sector, University of Technology -Electrical Engineering Department- Iraq, 1-Day, 20/4/2015
- Participated in the impact of industrial pollutants on water activities and modern techniques in the treatment, University of Technology -Chemical Engineering Department- Iraq, 1-Day, 27/10/2015
- Participated in Evaluating the Phases of the Development of the Academic Track of the Department of Chemical Engineering on the Occasion of the Fortieth Anniversary of its Foundation, University of Technology -Chemical Engineering Department- Iraq, 1-Day, 23/2/2016
- Participated in the Workshop (The Importance of ISO 17025 in the Organization of the Work of Food Safety Laboratories), University of Baghdad/ Market Research & Consumer Protection Center, which was held in the period 10-11/5/2016, No. 350 in 23/5/2016
- Participated in the Workshop (Research Centers and their Role in Ranking Universities According to International Classifications), University of Baghdad/ Market Research & Consumer Protection Center, 1-Day, 26/10/2016, No. 633 in 27/10/2016
- Participated in the lecture entitled (Magnetization Equipment Project) for the Incubator of R&D Technology, which was held on the hall of the National Center for Packaging and Packaging/ Industrial Research and Development Authority/ Ministry of Industry and Minerals on 26/10/2016, No. 5402 in 18/12/2016
- Participated in Scientific Symposium (Strategy and Management of Electrical Power in Iraq), Department of Electrical Engineering, University of Technology – Iraq, 1-Day, 13/4/2017, No. 893 in 25/4/2017
- Participated in the Scientific Symposium titled (Application of Modern Electronics) Established by the Branch of Optical Electronics Engineering, Department of Laser and Optical Electronics Engineering on 13/4/2017, No. 729 in 15/5/2017

#### **8- Permanent Committees**

- Member of the Absences Committee in Chem. Eng. Dept., 2010
- Chairman of Committee of the Cultural and Extracurricular Activity, 2011
- Member of Committee to Application and Operation of Modern Devices in Industrial Units Laboratory, 2011

- Member of Committee to Receive and Determine the Technical Specifications of the Devices, 9/2014
- Member of Committee and the Committee of the Hardware Inventory Laboratories, 550 in 2/12/2014
- Chairman of Committee of the Summer Training (2015 – 2016), 413 in 16/9/2015
- Member of the University Committee for Summer Training (2015–2016), 516 in 13/1/2016
- Chairman of Committee of the Summer Training (2016 – 2017), 345 in 27/9/2016
- Member of the University Committee for Summer Training (2016–2017)
- Chairman of Committee to Receive and Determine the Technical Specifications of the Devices, 201 in 10/4/2017

#### **9- Temporary Committees**

- Chairman of Committee of the Delivery and Receipt of Industrial Units Laboratory, 7/3/2011
- Member of Commission Assigning Exam Computer Efficiency for Applicants for Graduate Studies, From 9/9/-10/9/2014
- Member of Committee for Valuing Donated Books to the Library Section, 2015
- Member of the Committee Monitoring the Preparatory Exam for Admission to Medical Colleges Group, 1938 in 3/9/2015
- Member of the Committee's Conference Annual Scientific graduation Projects and Summer Training and Communication with Graduates for students of primary studies, 545 in 15/3/2016
- Member of the Holding Committee for the preparation of data and evidence on the criteria of the national classification on the Quality of Iraqi Universities for the Department of Chemical Engineering for the Academic year 2015–2016 According to the Five Axes to Measure the Degree of Performance of Scientific Departments in Government Colleges, 41 in 18/1/2017
- Member of the Preparatory Committee for the Symposium Entitled (Environmental Treatment Between Reality and Ambition in Cooperation with the Ministry of Environment, 283 in 2/3/2017

#### **10- Employment History**

- 1984–1988 Undergraduate Student in the Chemical Engineering Department, College of Engineering, University of Baghdad, Iraq
- 1988–1991 Worked at the General Company of Electrical Industries, Ministry of Industry and Minerals, Chemical Engineer, Head of Electroplating and Painting Division, Baghdad, Iraq.
- 1992–1994 Worked at the Al-Nhriyyn Center for Specialist Printing, Ministry of Industry and Minerals, Chemical Engineer, Head of Chemicals and Inks Division, Baghdad, Iraq.
- 1995–1999 Worked at the Training Central for Electrical Industries General Committee for Training of Apprenticeship, Al-Waziriyah, Ministry of Industry and Minerals, Chemical Engineer, Lecturer, Baghdad, Iraq.
- 2000–2001 Worked at the Traffic Marks Manufacturing Factory, General Al-Sumood Company, Ministry of Industry and Minerals, Assistant Chief Engineer, Head of Production Department, Baghdad, Iraq.
- 2002–2004 M.Sc. Postgraduate Student in Chemical Engineering Department, University of Baghdad, Iraq
- 2005–2010 Worked As Assistant Lecturer at the Chemical Engineering Department, University of Technology, and Baghdad, Iraq.

- 2011–2014 Ph.D. Postgraduate Student at the Chemical Engineering Department, University of Baghdad, Iraq
- 2014–Present Worked at the Chemical Engineering Department, University of Technology, and Baghdad, Iraq.

### 11- Lab Supervision

- Chemical Process Industries
- Industrial Units Laboratory
- Control and Measurements Laboratory
- Physical Chemistry Laboratory

### 12-License/Certification

- Member of Association of Iraqi Engineers Syndicate (in Consultative status since 4/10/2015)
- Member of the Society of Engineers (type of membership factor)

### 13-Skills and Qualifications (Language and Computer)

- Language Abilities: English, Arabic
- Very Good With Computers, And Many Programs Like: Excel, Word, Power Point, Mails, Internet, Etc.

### 14- Publications/ Books

#### *1- Published Researches*

1. **Khalid H. Rashid**, Aprael S. Yaro & Muslet Sh. Hussain, "Electrochemical behavior of Chemical Conversion Coated Aluminum ASA 6061 in Chromic Acid", Iraqi Journal of Chem. & Pet. Eng. (I.J.C.P.E), Vol. 8, No. 3, (Sep. 2007), pp. 49-52.
2. **Khalid H. Rashid**, "Electrochemical Behavior of Chemical Conversion of Coated Aluminum 1100Al in a Neutral Tartrate Solution" Iraqi Journal of Engineering & Technology (I.J.E.T.), Vol. 28, No.18, (2010), pp. 5640- 5650.
3. **Khalid H. Rashid** & Talib M. Albayati, "Comparative Study for Anodizing Aluminum Alloy 1060 by Different Types of Electrolytes Solutions", Iraqi Journal of Engineering & Technology (I.J.E.T.), Special Number of First Scientific Conference on Modern Technologies in Oil & Gas Refining-Chemical Eng. Dept., University of Technology and Midland Refineries Company, (April 2011) 25-27.
4. **Khalid H. Rashid** & Aprael S. Yaro, "Modelling and Optimization of Carbon Steel Corrosion in CO<sub>2</sub> Containing Oilfield Produced Water in Presence of HAC", Iraqi Journal of Chem. & Pet. Eng. (I.J.C.P.E.), Vol. 16, No. 2, (June 2015), pp. 1-8.
5. **Khalid H. Rashid**, Aprael S. Yaro and Anees A. Khadom, "Effect of CO<sub>2</sub> corrosion behavior of mild steel in oilfield produced water", Journal of Loss Prevention in the Process Industries, Vol. 38, (2015), pp. 24-38.
6. **Khalid H. Rashid**, "Determination of the Optimum Conditions in Evaluation of Kiwi Juice as Green Corrosion Inhibitor of Steel in Hydrochloric Acid", Iraqi Journal of Engineering (I.J.E.), Vol. 21, No. 8, (Aug. 2015), pp. 22-39.
7. **Khalid H. Rashid**, "Determination of the Optimum Conditions in Evaluation of Kiwi Juice as Green Corrosion Inhibitor of Steel in Hydrochloric Acid", Iraqi Journal of Engineering (I.J.E.), Vol. 21, No. 8, (Aug. 2015), pp. 22-39.
8. **Khalid H. Rashid**, "Effect of Acetic Acid on Electrochemical Behavior of Sealed AA2319- T3 Al-Alloys Anodized in Phosphoric Acid Electrolytes", Iraqi Journal of Al-Khwarizmi Eng. (I.J.Kh.E.), Vol. 11, No. 4, (Dec. 2015), pp. 1-7.
9. **Khalid H. Rashid**, Zaidoon Mohsin Shakor & Ayad Bahaddin Ahmed, "Modelling and Optimization of Corrosion Inhibition of Mild Steel in Phosphoric Acid by Red Pomegranate Peels Aqueous Extract", to be published in Accordance with Document of Accept Posting 304 in 5/4/2017 , Iraqi Journal of Engineering (I.J.E.)

10. **Khalid H. Rashid** and Anees A. Khadom, "Adsorption and Kinetics Behavior of Kiwi Juice as a friendly Corrosion Inhibitor of Steel in Acidic Media ", to be published in Accordance with Document of Accept Posting (<https://mail.google.com/mail/u/0/?ui=2&ik=c6f9c114d8&jsver=BNKYf1ymS-0.en.&view=pt&search=inbox&th=15f489cfafcbceff&siml=15f489cfafcbceff>), World Journal of Engineering - Decision on Manuscript ID WJE-08-2017-0246.R1

**2- Research to be Published:**

### **3- Books**

1. Corrosion Behavior of the Carbon Steel in CO<sub>2</sub> Saturated Brine, (ISBN 978-3-330-32497-8), LAP Lambert Academic Publishing, Gmbh & Co.Kg Germany,(10 Aug. 2017)

### **15- Conferences**

1. Participated in the 1<sup>st</sup> Scientific Conference for Chemical and Petrochemical Engineering, College of Engineering , University of Tikrit, 28 - 29 November 2000
2. Participated in the Twenty Chemist Iraqi Conference Convene from Iraqi Chemists Union, Ishtar – Sheraton Hotel, Baghdad, 8 - 10 October 2002
3. Participated in Research in First Scientific Conference on Modern Technologies in Oil & Gas Refining, Chemical Eng. Department, University of Technology- Iraq, 25 – 27 April 2011
4. Participated in Second Scientific Conference on Modern Technologies in Oil Refining, University of Technology- Iraq, 2013
5. Participated in 1<sup>st</sup> Scientific conference of postgraduate students (Graduate Research in Chemical Engineering and its Impact on the Development of Chemical and Oil Industries Paths), University of Technology- Iraq, 18 – 19 May 2015
6. Participated in Student Conference Annual Scientific graduation Projects and Communication with Graduates for students of primary studies, University of Technology- Iraq, 2015
7. Participated in Student Conference Annual Scientific graduation Projects and Summer Training and Communication with Graduates for students of primary studies, University of Technology- Iraq, 26-4-2016
8. Participated in the Second Sustainable and Renewable Energy Conference, Society of Iraqi Engineers / Headquarters of the Society for the period from 26 to 27 November 2016, No. 881 in 4/12/2016
9. Participated in Second Annual Conference of Chemical Engineers, Iraqi Engineers Syndicate / General Center, 14-12-2016
10. Participated in Iraq Energy Inventions Exhibition / Petroleum Cultural Center / Oil Ministry, Baghdad, 18-19 December 2016
11. Participated in Scientific Conference of Postgraduate Students, University of Baghdad/ College of Engineering - Iraq, 27 – 28 December 2017

### **16- Contracts**

1. “Anodizing of Aluminum ASA 6061 Using Chromic Acid”, (Contract Funding in 3/11/ 2002 by the Ministry of Industry and Minerals, General April 17 Company, Baghdad, 2002).
2. “Economical Design, Quantitative Analysis & Electrochemical Behavior of Carbon Steel in CO<sub>2</sub> – Containing Oilfield Produced Water”, (Contract No. 12 in 22/4/

2012, Funding by the Ministry of Industry and Minerals, General Authority for Industrial Research and Development, Legal Section, Iraq.

#### **17- Honors and Distinctions**

- Acknowledgment and Appraisal in Accordance with Document 373 in 20/3/1997, Training Central for Electrical Industries, General Committee for Training and Apprenticeship, Al-Waziriyah.
- Acknowledgment and Appraisal in Accordance with Document 8133 in 6/2/2001, General Al-Sumood Company.
- Acknowledgment and Appraisal in Accordance with Document 1794 in 28/9/2011, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 177 in 29/1/2012, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 860/8 in 22/5/2013, Ministry of Higher Education & Scientific Research (Minister Office).
- Acknowledgment and Appraisal in Accordance with Document 4921 in 16/6/2015, Ministry of Higher Education & Scientific Research (Research & Development).
- Acknowledgment and Appraisal in Accordance with Document 1946 in 3/9/2015, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 711 in 18/10/2015, President of the University of Technology.
- Acknowledgment and Appraisal in Accordance with Document 3635 in 13/12/2015, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 3718 in 21/12/2015, Department of Chemical Engineering (Head of Department Office).
- A certificate of Appreciation for the Efforts of the Summer Training through the Student Conference on Graduation Projects and Summer Training and Communication with Graduates from Department of Chemical Engineering (Head of Department Office). in 26/4/2016.
- Acknowledgment and Appraisal in Accordance with Document 1120 in 1/6/2016, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 1208 in 14/6/2016, Department of Chemical Engineering (Head of Department Office).
- Acknowledgment and Appraisal in Accordance with Document 7203 in 28/7/2016, President of the University of Technology.
- Acknowledgment and Appraisal in Accordance with Document 111 in 4/1/2017, University of Babylon / College of Engineering / (Dean of the College of Engineering).
- Acknowledgment and Appraisal in Accordance with Document 977 in 8/5/2017, Department of Chemical Engineering (Head of Department Office).