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Name: Rehab Majed Mohammed Rasheed Kubba

Date of Birth: 28/9/1955

Religion: Married

Martial statues: Muslim

No. of children: Four

Specialization: Physcical chemistry (Quantum and spectroscopy)

Position: Department of chemistry- College of Science - University of Baghdad

Scientific Degree: Professor

Work Address: Lecturer

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First, Scientific Certification:

Degree science	University	College	Date
B.Sc.	Baghdad	Science	1977
M.Sc.	Baghdad	Science	1983
Ph.D.	Baghdad	Science	1997
Assist. Prof.	Baghdad	Science	1999-2005
Professor	Baghdad	Science	2019-2005

Second, Career:

No.	Career	Workplace	From -To
1	B.Sc	College of science- Department of Chemistry- University of Baghdad	1981 -1978
2	M.Sc (Lecturer)	College of science- Department of Chemistry- University of Baghdad	1983-1986
3	Ph.d (Lecturer)	College of science- Department of Chemistry- University of Baghdad	1986-1999
4	Assistant Prof. (Lecturer)	College of science- Department of Chemistry- University of Baghdad	1999-2005
5	Professor (Lecturer)	College of science- Department of Chemistry- University of Baghdad	2005-2019

Third, University Teaching.

No.	University	College of Science	From -To
1	Baghdad	IR technician	1978
2	Baghdad	Practical analytical chemistry first year	1978
3	Baghdad	Practical analytical chemistry second year	1979
4	Baghdad	Practical analytical for non chemist first year	1979
5	Baghdad	Practical organic for non chemist first year	1979
6	Baghdad	Practical industrial chemistry third year	1979-1981
7	Baghdad	Supervision of summer practice	1980-1981
8	Baghdad	Practical instrument analytical chemistry (higher education)	1979-1981
9	Baghdad	Practical physical chemistry second and third year	1983-1986

10	Baghdad	theoretical physical chemistry first year (for non chemist)	1986
11	Baghdad	Supervision of practical analytical chemistry second year	1986
12	Baghdad	Lecturer and supervision of practical computer lab. (Basic language) first year	2005 -1997
13	Baghdad	Lecturer and supervision of practical computer lab. (Fortran language) second year	1998-2005
14	Baghdad	Quantum chemistry and spectroscopy (fourth year)	1986-2016
15	Baghdad	Quantum mechanics for higher education M.Sc and Ph.d	2008-2017
16	Baghdad	Group Theory and its application in chemistry for higher education M.Sc and Ph.d	2017-2005

■ **Fourth, Courses Which You Teach:**

No.	Department	Subject	Year
1	Chemistry	physical chemistry	1986
2	Chemistry	Basic language	1997-2005
3	Chemistry	Fortran language	1998-2005
4	Chemistry	Quantum chemistry and spectroscopy	1986-2010
5	Chemistry	Quantum mechanics for higher education M.Sc and Ph.d	2007-2017
6	Chemistry	Group Theory and its application in chemistry for higher education M.Sc and Ph.D	2002-2019
7	Chemistry	Spectroscopy for higher education M.Sc	2012-2019

■ **Fifth, Thesis which was supervised by :**

No.	Thesis Title	Department	Year
1	Effect of Charge on the Vibration Frequency Shift of Phenanthrene and Benz(a)anthracene by Used Mindo/3-Forces Method.	Chemistry	2001
2	Studying the Effect of Charge on the Vibration Frequencies of Poly Aromatic Hydrocarbons Triphenylene And Benzo[phenanthrene] by Mindo/3-Forces Calculation.	Chemistry	2001
3	Usage of Differential Pulse Polarography Method to Determine the Heavy Metals Concentrations (Lead and Chromium) in Blood and Lead Alloys.	Chemistry	2003
4	Specific Study for the Pollution Percentage with Polycyclic Aromatic Hydrocarbons in the Iraqi Heavy Oil Shale and for Wheat Infected with Tilletia.	Chemistry	2003
5	Quantum Mechanical Calculations of the Vibration Frequencies and Infrared Absorption Intensities for Mono, Di, and Trimethylene Cyclobutane and 6-Radialene Molecules by Mindo/3-Forces Method.	Chemistry	2003
6	Correlation Study of Vibration Frequencies with Bond Order of CC Bonds in Polycyclic Aromatic: Perylene, coranulene and Coronene and Their positive and Negative Radical Ions Using Quantum Mechanical Calculations.	Chemistry	2005
7	Theoretical Study of Vibration Modes for Cyclacene and Collarene Molecules (Construction Units of Nanotubes)	Chemistry	2009
8	Quantum Mechanical Investigations of IR Spectra and Thermal C-O Bond Rupture Energies in Some Ampiciline Derivatives	Chemistry	2011
9	Quantum Mechanical Calculations of Some Schiff Bases as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solutions	Chemistry	2014
10	Comparative study of physical properties and energetic for unit construction of fullerene molecule and for zig zag SWCNTs using quantum mechanical methods	Chemistry	2014
11	Theoretical and experimental studies for carbon steel corrosion inhibition in sea water by some of N-benzyl-5-Bromo Isatin derivatives	Chemistry	2016

12	Theoretical, electrochemical and thermodynamic study for carbon steel corrosion inhibition in sea water by some of 5-Bromo Isatin derivatives	Chemistry	2018
13	Theoretical, thermodynamic and electrochemical study of some quinazolinone derivatives as corrosion inhibitors for carbon steel in 1M HCl solution	Chemistry	2018
14	Synthesis, Identification, Theoretical and Experimental Studies for Carbon Steel Corrosion Inhibition in Sea Water by Some New Schiff Base Derivatives Containing 5-Nitro Isatin Moiety	Chemistry	2019

■ **Sixth, Conferences which you participated:**

No.	Conferences Title	Year	Place	Type of Participation
1	كيمياء المركبات العطرية ذات الحلقات المتعددة. الدورة التدريبية النظرية للمركبات العطرية ذات الحلقات المتعددة في منظمة الطاقة الذرية. للفترة من 8/17 و لغاية 8/28-2002 .	2002	منظمة الطاقة الذرية	Research
2	الصفات الطيفية للمركبات العطرية في منظمة الطاقة الذرية. الدورة التدريبية النظرية للمركبات العطرية ذات الحلقات المتعددة للفترة من 8/17 و لغاية 8/28-2002 .	2002	منظمة الطاقة الذرية	Research
3	Quantitative Detection of the Carcinogenic Polycyclic Aromatic Hydrocarbons in Wheat Corps Infected with Tilletia Caries. The Second Arab Chemistry Conference 21-23 April 2004.	2004	Second Arab Chemistry Conference	Research
4	Vibration Frequencies Shifts of the Triphenylene Hydrocarbons as Caused by Different Molecular Charge. The Second Arab Chemistry Conference 21-23 April 2004.	2004	Second Arab Chemistry Conference	Research

■ **Seventh, Scientific Activities:**

خارج الكلية		داخل الكلية
عضوة لجان السيطرة و التقييس النوعي في الجهاز المركزي للسيطرة و التقييس النوعي في بغداد 2000-2003.	2003	مقررة لجنة امتحانية.
	2007	عضو لجنة كلية العلوم .
	2003-2019	عضو لجان استلال البحوث.
عضوة لجان مناقشة في جامعة بغداد-كلية العلوم، كلية ابن الهيثم ، كلية علوم بنات جامعة النهرين، جامعة المستنصرية.	2008-2011	عضو لجنة ترقيات.
	2010-2011	عضو لجنة تعضيد البحوث
	2017-2012	عضو مجلس قسم
	2017-2012	عضو لجنة علمية
	2017	عضو لجنة تقييم الاختراعات



Within the College	Outside the College
مقررة لجنة امتحانية. 2003	عضوة لجان السيطرة و التقييس النوعي في الجهاز المركزي للسيطرة و التقييس النوعي في بغداد و لسنين عديدة.
عضو لجنة كلية العلوم. 2007	2007
عضو لجنة استلال البحوث.	2007-2011
عضو لجنة ترقيات.	2008-2011
عضو لجنة تعضيد البحوث	2010-2011
2019-2012 عضو مجلس قسم	
2019-2012 عضو لجنة علمية	
2017-2019	عضو مجلة كلية العلوم
2017	عضو لجنة تقييم الاختراعات
2017-2019	عضو لجنة الخبراء

Eighth, Research Projects in The Felid of Specialization to The me:

Rehab Majed Mohammed Rasheed Kubba

■ **Environment and Society or the Development of Education:**

No.	Research Title	Place of Publication	Year
1	R. M. Kubba and Abed A. Shahada, Preparation and Spectroscopic Properties of Me ₃ SiOP(S)Cl ₂ , Me ₃ SiOP(S)Br ₂ and Me ₃ SiOP(O)Br ₂ , Z. Naturforsch 35b, 976-980	Z. Naturforsch 35b, 976-980	1980
2	R. M. Kubba, Bending Vibration Frequencies of Azomethine Derivatives (MSc. Thesis) University of Baghdad, Iraq .	University of Baghdad, Iraq.	1983
3	3- رحاب ماجد كبة و مثنى شنشل، براءة اختراع حول استخلاص الفضة من رقائق الأشعة . رقم البراءة 1808 في 17/12/1984	ديوان الرئاسة	1984
4	R. M. Kubba and M. Shanshal, The Photoelectron Spectra of 2, - and 4-Cyclopyridines, Turc. Chem. Acta, 13, 433 (1985).	Turc. Chem. Acta,	1985
5	R. M. Kubba and M. Shanshal, The Photoelectron Spectra of Methyl- Substituted Cyclopropylbenzene derivatives, Turc, Chem. Acta, 13, 321 (1985).	Turc. Chem. Acta,	1985
6	R. M. Kubba and M. Shanshal, Low Temperature IR Measurements of Azomethine Derivatives, Iraqi, J. Sci., 29,1 (1986)	Iraqi, J. Science	1986
7	R. M. Kubba and M. Shanshal, Attempted evaluation of Kinetic Data from the Frequency Shifts of IR Absorption bands at Different temperature, Iraqi J. Science , 27, 107 (1986).	Iraqi, J. Science	1986
8	R. M. Kubba and M. Shanshal, IR Spectra for 2-Cyclopropyl Pyridine, 4- Cyclopropyl Pyridine, (71143 K & 71144 (1987).	Sadtler Research Laboratories	1987
9	R. M. Kubba and M. Shanshal, An Electrochemical Study of the Interaction of Ubiquinone (Coenzyme Q) with Various Organic Molecules. Mu, tah Journal for Research and Studies Vol. 11, No. 2 (1996).	Journal for Research and Studies	1987

10	R. M. Kubba, Quantum Mechanical Calculations of the Vibration Spectra and IR Absorption Intensities of Poly Aromatic Hydrocarbons by MINDO/3-FORCES, (PhD Thesis). University of Baghdad, Iraq (1997).	University of Baghdad, Iraq	1997
11	R. M. Kubba and M. Shanshal, Calculated Vibration Frequencies and IR Absorption Intensities of The Poly Aromatic Hydrocarbons Naphthalene and Anthracene; A Scaled MINDO/3-FORCES Treatment. Iraqi Jr., 27, 107 (2000).	Iraqi, J. Science	2000
12	R. M. Kubba and M. Shanshal, Quantum Chemical Description of the Vibration Motion of Chrysene, Iraqi J, Sci. 41A, No.4, 54 (2000).	Iraqi, J. Science	2000
13	R. M. Kubba and M. Shanshal, Frequencies and Normal Modes of Vibration of Phenanthrene. A MINDO/3-FORCES Treatment, Iraqi J, Sci. 41A, No. 2, 1 (2000).	Iraqi, J. Science	2000
14	R. M. Kubba and M. Shanshal, Calculation Vibration Frequencies, IR Absorption Intensities and Normal Coordinates of Pyrene. Iraqi J, Sci. 41A, No.4, 1 (2000).	Iraqi, J. Science	2000
15	R. M. Kubba and M. Shanshal, Vibration Frequencies Intensities and Normal Coordinates of Triphenylene. Iraqi J, Sci. 41A, No.4, 1 (2000).	Iraqi, J. Science	2000
16	R. M. Kubba, Scaled Vibration Frequencies and Normal Coordinates Analysis of 3Radialine. Z. Naturforsch. 56a, 505-508 (2001)	Z. Naturforsch	2001
17	R. M. Kubba and M. Shanshal, Frequencies and Normal Modes of Benz(a)anthracene, Z. Naturforsch. 56a, 493-498 (2001).	Z. Naturforsch	2001
18	H. H. Abdullah, R. M. Kubba and M. Shanshal Vibration Frequencies and IR Absorption Intensities of Anthracene Radical Ions. National Journal of Chemistry, V.1, 96 (2001).	National Journal of Chemistry	2001

19	H. H. Abdullah, R. M. Kubba and M. Shanshal Vibration Frequencies Shifts of Naphthalene as Caused by Different Molecular Charge. Iraqi J, Sci. 42A, No.1, (2001).	Iraqi, J. Science	2001
20	H. H. Abdullah, R. M. Kubba and M. Shanshal Vibration Frequencies and IR Absorption Intensities of Pyrene Radical Ions (2001).	Iraqi, J. Science	2001
21	رحاب ماجد كبة و مثنى شنشل، كيمياء المركبات العطرية ذات 24 الحلقات المتعددة. الدورة التدريبية النظرية للمركبات العطرية ذات الحلقات المتعددة في منظمة الطاقة الذرية. للفترة من 8/17 و لغاية . 8/28-2002	منظمة الطاقة الذرية	2002
22	رحاب ماجد كبة و مثنى شنشل، الصفات الطيفية للمركبات العطرية في منظمة الطاقة الذرية. الدورة التدريبية النظرية للمركبات العطرية ذات الحلقات المتعددة للفترة من 8/17 و لغاية 8/28-2002 .	منظمة الطاقة الذرية	2002
23	مثنى شنشل و رحاب ماجد كبة، دراسة تكتمية للصفات الفيزيائية و الكيميائية للمركبات العطرية متعددة الحلقات الملوثة و المسرطنة. المؤتمر العلمي القطري لتلوث البيئة و اساليب حمايتها. منظمة الطاقة الذرية العراقية، دائرة البحوث البنائية 2002 .	منظمة الطاقة الذرية	2002
24	H. H. Abdullah, R. M. Kubba and M. Shanshal Vibration Frequencies Shifts of Naphthalene and Anthracene as Caused by Different Molecular Charge. Z. Naturforsch. 58a, 645 (2003).	Z. Naturforsch	2003
25	M. Shanshal, R. M. Kubba, Shaima K. Dawood and H.H. Abdulla, Quantitative Detection of the Carcinogenic Polycyclic Aromatic Hydrocarbons in Wheat Corps Infected with Tilletia Caries. The Second Arab Chemistry Conference 21-23 April 2004.	Second Arab Chemistry Conference	2004
26	M. Shanshal, R. M. Kubba and Nadia Abed Al- Kareem, Vibration Frequencies Shifts of the Triphenylene Hydrocarbons as Caused by Different Molecular Charge. The Second Arab Chemistry Conference 21-23 April 2004.	Second Arab Chemistry Conference	2004
27	Rehab M. Kubba, S. H. Rida and A. H. Hanoon, Vibration Frequencies, Normal Coordinates and IR Absorption Intensities of 1-; 1,2-Di-; 1,3- Di- and 1,2,3-Trimethylene Cyclobutane Derivatives Z. Naturforsch, 60a, 411-418 (2005).	Z. Naturforsch	2005

28	Rehab M. Kubba, S. H. Rida and A. H. Hanoon, Geometry, Vibration Frequencies, Normal Coordinates and IR Absorption Intensities of [6]-Radialine. Z. Naturforsch, 60a, 419-423 (2005).	Z. Naturforsch	2005
29	R. M. Kubba, Quantum Chemical Description of the Vibration Motion of Chrysene, Comparison Results of the MINDO/3-FORCES Method, ab initio and Density Functional (B3LYP) National Journal of Chemistry, vol 19 380-396 2005.	National Journal of Chemistry	2005
30	Vibration Frequencies and IR Absorption Intensities of Anthracene Radical Ions. Hassan H. Abdulla, Rehab M. Kubba and Muthana Shanshal , National Journal of Chemistry, Volume 1. 96-113 (2002)	National Journal of Chemistry	2002
31	H. H. Abdullah, R. M. Kubba and M. Shanshal Vibration Frequencies Shifts of Naphthalene and Anthracene as Caused by Different Molecular Charge. Z. Naturforsch. 58a, 645-655 (2003).	Z. Naturforsch	2003
32	R. M. Kubba, R. L. Al-Ani and M. Shanshal, Carbon σ -Electron Densities and C-H Stretching Vibration Frequencies of Phenanthrene. 60a, 165-170 (2005).	Z. Naturforsch	2005
33	R. M. Kubba, R. R. Al-Ani and M. Shanshal, Frequencies and Normal Modes of Vibration of Benz(a)anthracene Radical Ions. 60a, 158-164 (2005).	Z. Naturforsch	2005
34	M. Shanshal, R. M. Kubba, Shaima K. Dawood and H.H. Abdulla, Quantitative Detection of the Carcinogenic Polycyclic Aromatic Hydrocarbons in Wheat Corps Infected with Tilletia Caries. The Second Arab Chemistry Conference 21-23 April 2004.	The Second Arab Chemistry Conference	2004
35	M. Shanshal, R. M. Kubba and Nadia Abed Al-Kareem, Vibration Frequencies Shifts of the Triphenylene Hydrocarbons as Caused by Different Molecular Charge. The Second Arab Chemistry Conference 21-23 April 2004.	The Second Arab Chemistry Conference	2004

36	<p>رحاب ماجد كبة و حسن هادي، دراسة ترددات الاهتزاز و شدد امتصاص الأشعة تحت الحمراء لمركب البنزين ثلاثي البيوتان الحلقي وتعيين طاقة نواتج تكسره الحراري إلى مركب الراديبالين السداسي المستوي باستخدام حسابات مكانيك الكم النظرية شبه التجريبية</p> <p>Vol 18 235-260 2005. National Journal of Chemistry</p>	National Journal of Chemistry	2005
37	<p>Rehab M. Kubba, "Aromatic C-H Bond Rupture; A Density Functional, B3LYP", Study. Z. Naturforsch. 60a, 861-862 (2005)</p>	Z. Naturforsch	2005
38	<p>R. M. Kubba, "Quantum Chemical Description of the Vibration Motion of Chrysene, Comparison Results of the MINDO/3-FORCES Method, ab initio and Density Functional (B3LYP)", 2005, volume.19, 380-396 National Journal of Chemistry,</p>	National Journal of Chemistry	2005
39	<p>M. Shanshal and R. M. Kubba. "Bonding electron densities and vibration frequencies of [3]-,[4]-,[5]- and [6]-Radialens; a B3LYP Functional Study". Z. Naturforsch. 61a, 95-98 (2006).</p>	Z. Naturforsch	2006
40	<p>R. M. Kubba, Manal U. Al-Dilemy and M. Shanshal, "Vibration Frequencies and Normal Modes of Perylene with Different Molecular Charges Amindo/3-Forces Treatment". 2010, volume 38, 293-310. Iraqi National Journal of Chemistry</p>	Iraqi National Journal of Chemistry	2010
41	<p>Rehab M. Kubba, "A DFT Treatments For Studying the Vibration Frequencies and Normal Coordinates of Cyclacene 6 (armchair) Molecule" Volume 5, No. 1, pp 25-37, 2011, Anbar journal of pure science</p>	Anbar journal of pure science	2011
42	<p>Rehab M. Kubba, Manal U. Al-Dilemy and Muthana Shanshal, "Comparision Study of Vibration Frequencies with Bond Orders of CH and CC Bonds in Coronene and it's Positive and Negative Radical Ions Using Quantum Mechanical Calculations". Vol. 5, No. 1, pp 44-6.0, 2011. Anbar journal of pure science</p>	Anbar journal of pure science	2011

43	رحاب ماجد كبة، " حسابات ترددات اهتزاز و شدد امتصاص طيف الاشعة تحت الحمراء لجزيئة [6] سايكلاسين (Chiral) " ، المجلد الخامس، العدد 2، 2011، pp 49-63, Anbar journal of pure science	Anbar journal of pure science	2011
44	Rehab M. Kubba, Manal U. Al-Dilemy and Muthana Shanshal, "Studying The Vibration Frequencies of Corannulene and it's Positive and Negative Radical Ions Using Quantum Mechanical Calculations" Vol. 5, No. 2, pp 32-48. 2011 Anbar journal of pure science,	Anbar journal of pure science	2011
45	Rehab M. Kubba, Huda N. AL-Ani and Muthana Shanshal, "Comparison of the Vibration Frequencies of [6] Cyclacene (Zigzag, Armchair and Chiral) Monoring Molecules" Iraqi National journal of chemistry, 2011, volume 44, 501-515. Iraqi National journal of chemistry, 2011, volume.38, 293-310.	Iraqi National journal of chemistry	2011
46	Rehab M. Kubba, Huda N. AL-Ani and Muthana Shanshal, " Calculated Vibration Frequencies and IR Absorption Intensities of [6] Cyclacene (zig zag) Molecule". American Journal of Scientific and Industrial Research (AJSIR). pp 642-651, 2011	American Journal of Scientific and Industrial Research	2011
47	Rehab M. Kubba, Huda N. AL-Ani and Muthana Shanshal, "The Vibration Frequencies of [6] Cyclacenes (Linear, Angular and Angular-Chiral) Monoring Molecules". Jordan journal of chemistry, 2011, volume. 6, No. 3, pp 269-290, 2011	Jordan journal of chemistry	2011
48	رحاب ماجد كبة و منال عبيد الدليمي و مثنى شنشل، " دراسة ترددات الاهتزاز لجزيئة الكورانولين العطرية متعددة الحلقات وجذورها الأيونية الموجبة والسالبة باستخدام حسابات ميكانيك الكم "، المجلد الخامس، العدد 2، 2011، pp 48-32, Anbar journal of pure science	Anbar journal of pure science	2011
49	Muthana Shanshal and Rehab M. Kubba, "Vibration Frequencies of Perylene with Different Molecular Charges". <i>Jordan journal of chemistry, Vol. 7, pp 55-71, 2012.</i>	Jordan journal of chemistry	2012

50	Rehab M. Kubba, "Theoretical study of IR spectra; Reaction Energies of C-O Thermal Bond Rupture in Some Ampicillin Prodrugs", <i>Vol., 15, No. 4, pp 1-11., 2012.</i> Nahrrain university journal of science chemistry	Nahrrain university journal of science chemistry	2012
51	Rehab M. Kubba and Thana Mahdee Al. Mouamin, "Quantum Mechanical Calculations of IR Spectra; Reaction Energies of C-O (R-O) Thermal Bond Rupture for Cefuroxime Prodrugs", <i>Vol., 6, No. 3, p 90-101.</i> Anbar journal of pure science	Anbar journal of pure science	2012
53	Rehab M. Kubba and Huda N. AL-Ani, " A DFT Treatments for Studying the Vibration Frequencies and Normal Coordinates of Cyclacene Molecules with Different Diameters (Unit Construction of ZigZag SWCNTs)", <i>Vol. 10, No. 18, pp 139-150,</i> Iraqi journal of Physics	Iraqi journal of Physics	2012
54	Rehab M. Kubba and Huda N. AL-Ani, "Comparison study of CC and CH Vibration frequencies and electronic properties of mono, Di, Tri, and Tetra-rings layer of Arm chair (SWCNTs) <i>Vol., 11, No. 20, PP, 85-99.</i> Iraqi journal of Physics	Iraqi journal of Physics	2013
55	Rehab M. Kubba and Ali Abdul Sallam, "Quantum Mechanical Calculations of R-O Thermal Bond Rupture Energies in Some Ampicillin Prodrugs", <i>Vol. 54, No. 4, pp 739-752, 2013.</i> Iraqi journal of Science	Iraqi journal of Science	2013
56	Rehab M. Kubba and Khalida A. Samawi "Studying of Frequencies, Normal Modes of Vibration and Electronic Charge Densities of 5Radialene molecule", Iraqi journal of Science <i>Vol. 54, No. 4, pp 753-760, 2013.</i>	Iraqi journal of Science	2013
57	Rehab M. Kubba and Khalida A. Samawi , "Theoritcal Study of Electronic Properties and Vibration Frequencies for Tri-Rings Layer (6,0) Linear (Zigzag) SWCNT" <i>Iraqi Journal of Science, 2014, Vol 55, No.2B, pp:606-616</i>	Iraqi journal of Science	2014

	<p>Rehab M. Kubba and Fatten K. Abood "Quantum Chemical Investigation of Some Schiff Bases as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solutions" <i>Iraqi Journal of Science</i>, 2015, Vol 56, No.2B, pp: 1241-1257</p>	Iraqi journal of Science	2015
58	<p>Rehab M. Kubba and Fatten K. Abood DFT, PM3, AM1, and MINDO/3 Quantum Mechanical Calculations for Some INHC Cs Symmetry Schiff Bases as Corrosion Inhibitors for Mild Steel , <i>Iraqi Journal of Science</i>, 2015, Vol 56, No.1C, pp: 602-621</p>	Iraqi journal of Science	2015
59	<p>Rehab M. Kubba and Khalida A. Samawi , Theoretical Study of Bonds length, Energetic and Vibration Frequencies for Construction Units of (6,0) ZigZag SWCNTs <i>Iraqi Journal of Science</i>, 2015, Vol 56, No.3A, pp: 1821-1835</p>	Iraqi journal of Science	2015
60	<p>Rehab M. Kubba, Ahlam M. Al-Azzawi1 and Kafa K. Hammud Theoretical Study of New Derivative of Cefotaxime-Amic Acid as a Corrosion Inhibitor , <i>Iraqi Journal of Science</i>, 2016, 57(2A), pp: 792-801</p>	Iraqi journal of Science	2016
61	<p>Rehab Majed Kubba and Mustafa Mohammed Khathem Theoretical Studies of Corrosion Inhibition Efficiency of Two New N-Phenyl-Ethylidene-5-Bromo Isatin Derivatives, <i>Iraqi journal of Science</i> 57(2B), pp: 1041-1051</p>	Iraqi journal of Science	2016
62	<p>Rehab Majed Kubba and Mustafa Mohammed Khathem PM3 and DFT Quantum Mechanical Calculations of Two New N-Benzyl-5-Bromo Isatin Derivatives as Corrosion Inhibitors, <i>International Journal of Application or Innovation in Engineering & Management (IJAIEM)</i> Volume 5, Issue 8, pp: 16-26</p>	<i>International Journal of Application or Innovation in Engineering & Management (IJAIEM)</i>	2016

63	<p>Rehab Majed Kubba and Mustafa Mohammed Khathem Synthesis and Experimental studies for carbon steel corrosion inhibition in 3.5% NaCl solutions by two new 5-bromo isatin derivatives, <i>International Journal of Application or Innovation in Engineering & Management (IJAEM) Volume 5, Issue 8, pp: 28-44</i></p>	<p><i>International Journal of Application or Innovation in Engineering & Management (IJAEM)</i></p>	2016
64	<p>Rehab Majed Kubba and Khalida Aubead Samawi Comparison of Physical Properties, Energetic, Vibration Frequencies and Normal Coordinates, for Construction Units of Fullerene C₆₀ Using Quantum Mechanical Calculations <i>Vol. 57, No.2C, pp:1333-1344 Iraqi journal of Science,</i></p>	<p>Iraqi journal of Science</p>	2016
65	<p>Rehab Majed Kubba, Ahmad Shalaan Alag Experimental and Theoretical Evaluation of new Quinazolinone Derivative as Organic Corrosion Inhibitor for Carbon Steel in 1M HCl Solution Volume 6 Issue 6, 1832-1843, <i>International Journal of Science and Research (IJSR)</i></p>	<p><i>International Journal of Science and Research (IJSR)</i></p>	2017
66	<p>Rehab Majed Kubba, Dhuha Abdul-Kareem Challob, Suaad Mohammed Hussen Combined Quantum Mechanical and Electrochemical Study of New Isatin Derivative as Corrosion Inhibitor for Carbon Steel in 3.5 % NaCl Volume 6 Issue 7, 1656-1669 ,<i>International Journal of Science and Research (IJSR)</i></p>	<p><i>International Journal of Science and Research (IJSR)</i></p>	2017
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77			



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Theoretical and Experimental Study for the Corrosion Inhibition of Carbon Steel Surface in Acidic and Salt media by Quinoline-2-One Derivatives Some of

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1- خالدة عبيد سماوي

Comparative study of physical properties and energetic for unit construction of fullerene molecule and for zig zag SWCNTs using quantum mechanical methods

2019-2020

2- مصطفى محمد كاظم

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- الاشراف البحثي لطلبة الدراسات العليا دكتوراه (مشترك) عدد 1

2017-2018

3- عذراء حكمت أحمد الجميلي

Synthesis, Identification, Theoretical and Experimental Studies for Carbon Steel Corrosion Inhibition in Sea Water by Some New Schiff Base Derivatives Containing 5-Nitro Isatin Moiety

Theoretical Patents

1- Adopt the Cs point group as a new inhibition parameter in quantum mechanical calculations to predict the selection of best organic inhibitors for mild steel and proving that experimentally (2019)

ادخال مجموعة النقطة Cs كعامل تثبيط جديد ممكن اعتماده في حسابات ميكانيك الكم للتنبؤ المسبق في إختيار المثبطات العضوية الأفضل لتثبيط تآكل الحديد المطاوع واثبات ذلك عمليا

2- Accreditation of basic quantum mechanical calculation method (ab-initio UHF) in the prediction of the possibility or impossibility using some organic groups as pharmacological acid carriers through calculation the reaction path of O-R ester bond breakage (2019)

إعتماد طريقة حساب ميكانيك الكم الاساسية ab-initio UHF في التنبؤ المسبق لإمكانية أوعدم إمكانية استخدام مجاميع عضوية معوضة كحوامل للحوامض الدوائية من خلال حساب مسار تفاعل طاقات كسر الأصرة الاسترية R-O

3- Adopt of theoretical calculations for studying the corrosion inhibition of carbon steel in seawater by some N-benzyl 5-bromo-isatin derivatives and proving that experimentally (2019)

أعتماد الحسابات النظرية لدراسة تثبيط تآكل حديد الصلب الكربوني في ماء البحر بفعل بعض مشتقات N بنزيل 5-برومو-ايساتين واثبات ذلك تجريبيا

4- Construct the Character Table of D_{7h} Point Group and Apply it to Classify the (3N-6) Modes of Vibration for Mono-Ring Nanotube (Cyclacene 7 molecule) (2019)

بناء جدول القيم الذاتية لمجموعة النقطة D_{7h} وتطبيقه لتصنيف أنماط الحركة الاهتزازية بعدد (3N-6) لانبوب نانوي احادي الحلقة (جزينة سايكلاسين 7)

Practical Patents

1- Synthesis, Identification, Theoretical and Experimental Studies of Carbon Steel Corrosion Inhibition in Sea Water by Some New corrosion inhibitor Schiff Base Containing 5-Nitro Isatin Moiety (2019)

تحضير و تشخيص و دراسة نظرية و تجريبية لتثبيط تآكل حديد الصلب الكربوني في ماء البحر بفعل مثبط تاكل جديد لقاعدة شف التي تحتوي على 5- نايتر و ايساتين

2- Synthesis of N-benzyl-5-bromo-3-[(imine aceto urea)]-2-oxo indole and use it as a corrosion inhibitor for carbon steel in sea water (2019)

تخليق مشتق N-بنزيل-5-برومو-3- [(إمينو اسيتو يوريا)-2-اوكسو إندول واستخدامه كمثبط تآكل لمعدن حديد الصلب الكربوني في ماء البحر



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الوظيفة : تدريسية

الدرجة العلمية : استاذ

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التاريخ	الكلية	الجامعة	الدرجة العلمية
1977	العلوم	بغداد	بكالوريوس
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1997	العلوم	بغداد	الدكتوراه