

Curriculum Vitae

Dr. Ivan Hameed R. Tomi

Al-Mustansiriyah University – College of Science

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PERSONAL SUMMARY:

Nationality	: Iraqi
Place and date of birth	: Baghdad, Iraq, 18th August 1976
Marital status	: Married
Corresponding address	Al-Mustansiriyah university, College of Science, Department of chemistry
Present Position	: Teacher of Organic and Polymer Chemistry (since 25-12-2005). Department of Chemistry, College of Science, University of Al- Mustansiriyah.
Scientific degree	: Prof. From 27-3-2018

EDUCATION:

B.Sc. In General Chemistry, awarded by the College of Education / Ibn – AL-Haithum, University of Baghdad, Iraq, on 30 June 1999 with a grade of (fair).

M.Sc. In organic and liquid crystal chemistry, awarded by the College of Education / Ibn – AL-Haithum, University of Baghdad, Iraq, on 23 December 2001 with a grade of (very good). The degree was taken by two years: First year: i) Lectures and examinations. ii) Special research techniques “synthesis and physical properties of liquid crystal materials”. Second year involving thesis entitled "Synthesis and characterization of two novel series containing central Bis-1,3,4-oxadiazole rings and studies of their liquid crystalline properties" under the supervision of Prof. Dr. Amar H. S. AL-Dujaili. And Asst. Prof. Dr. Ayad S. Hameed

Ph.D. In organic, liquid crystal chemistry and Polymer awarded from the College of Education / Ibn – AL-Haithum, University of Baghdad, Iraq, on 20 March 2007 with a grade of (very good). Thesis entitled “Synthesis and characterization of some Novel heterocyclic liquid crystalline compounds and polymers ” work under the supervision of Prof. Dr. Amar H. S. AL-Dujaili and Asst. Prof. Dr. Jumbad H. Tomma The project consists of preparation and characterization of eight novel series of liquid-crystalline Compounds and polymers.

- My present interest in research is directed on the synthesis and characterization of liquid crystalline models and polymers, containing heterocyclic units. IR, HNMR, CNMR, Mass spectroscopy, differential scanning calorimetry (DSC), hot-stage polarizing microscopy usually used for characterizing these materials.
- My research is also directed at the synthesis and study the antimicrobial activity of organic compounds containing heterocyclic units.
- Also the preparation of heterocyclic compounds and polymers and their applications in many industrial uses like corrosion and heavy metals.
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ACADEMIC HONORS AND AWARDS:

- 1- دورة الامن والسلامة الكيميائية المقامة في الجامعة التكنولوجية من قبل المؤسسة العربية للعلوم والتكنولوجيا وبإشراف من منظمة FASO الامريكية
- 2- اختيار مشروع البحث المقدم من قبلي الى ((المؤسسة العربية للعلوم والتكنولوجيا)) / دولة الامارات العربية المتحدة من بين 50 بحث مقدم اليهم والتعاقد معهم لمدة سنة لانجازه وتم انجازه بنجاح وبوقت قياسي
- 3- دورة طرائق التدريس ودورة كفاءة الحاسوب
- 4- الحصول على شهادة قيادة الحاسوب الدولية IC3
- 5- مقيم للبحوث العلمية في اربع مجلات عالمية رصينة ومعظم المجلات العلمية المحلية
- 6- تكريم من قبل السيد وزير التعليم العالي والبحث العلمي والسيد رئيس الجامعة المحترمين بمناسبة يوم العلم 2011 و 2012
- 7- تكريم من قبل السيد وزير التعليم والسيد رئيس الجامعة لغرض المشاركة في جائزة الابداع للعلوم للعام 2015
- 8- اشراف على طلبة ماجستير عدد 3 ودكتوراه عدد 1
- 9- 27 بحث منشور في مجلات عالمية مصنفة في Clarivate Analytics
- 10- 7 بحوث منشورة في مجلات محلية
- 11- مناقشة اكثر من تسعة عشر رسالة ماجستير واطروحة دكتوراه في معظم الجامعات العراقية
- 12- عضو لجنة امتحانية لخمسة اعوام متتالية اعتبارا من 2009
- 13- مقرر قسم الكيمياء في كلية العلوم الجامعة المستنصرية اعتبارا من 2012-7-1 ولغاية 2014-8-31
- 14- اختياري ككابس علمي من قبل الوزارة ل 3 مرات
- 15- عضو اللجنة المركزية للسيطرة على تداول المواد الكيميائية والبايولوجية الخطرة والسامة منذ عام 2016 ولحد 2019-10-1
- 16- عضو لجنة الترقيات العلمية لقسم الكيمياء اعتبارا من 2018-11-25 ولغاية 2019-9-8
- 17- رئيس لجنة الترقيات العلمية لكلية العلوم اعتبارا من 2019-9-8 ولغاية الان

ACADEMIC /TEACHING EXPERIENCE:

- #1: polymer chemistry 4th stage (theoretical and experimental)
- #2: liquid crystal chemistry (postgraduate Msc and PhD)

COURSES TAUGHT:

Undergraduate	Graduate
polymer chemistry 4 th stage (theoretical and experimental)	liquid crystal chemistry (postgraduate Msc and PhD)

PUBLICATIONS: (List of papers)

1. Potentiodynamic polarization, surface analyses and computational studies of a 1, 3, 4-thiadiazole compound as a corrosion inhibitor for Iraqi kerosene tanks, EA Yaqo, RA Anaee, MH Abdulmajeed, IHR Tomi, MM Kadhim, Journal of Molecular Structure 1202, 127356, 2020
2. Electrochemical, morphological and theoretical studies of an oxadiazole derivative as an anti-corrosive agent for kerosene reservoirs in Iraqi refineries, EA Yaqo, RA Anaee, MH Abdulmajeed, IHR Tomi, MM Kadhim, Chemical Papers, 1-19, 2019

3. Synthesis, Antimicrobial Evaluation and Docking Study of Novel 3, 5-Disubstituted-2-Isoxazoline and 1, 3, 5-Trisubstituted-2-Pyrazoline Derivatives., AH Ismail, AM Abdula, IHR Tomi, AHR Al-Daraji, Y Baqi, Medicinal chemistry, 2019
4. Aminotriazole Derivative as Anti-Corrosion Material for Iraqi Kerosene Tanks: Electrochemical, Computational and the Surface Study, EA Yaqo, RA Anaee, MH Abdulmajeed, IHR Tomi, MM Kadhim, ChemistrySelect 4 (34), 9883-9892, 2019
5. Expired Etoricoxib as a corrosion inhibitor for steel in acidic solution, RA Anaee, IHR Tomi, MH Abdulmajeed, SA Naser, MM Kathem, Journal of Molecular Liquids 279, 594-602, 2019
6. Study the effect of different terminal substituents on the liquid crystalline properties of the new synthesized 1,2,4-oxadiazole derivatives, GQ Ali, IHR Tomi, Journal of Dispersion Science and Technology 40 (08), 1093-1100, 2019
7. New mesogenic materials bearing 1, 2, 4-oxadiazole moiety: synthesis, characterization and investigation their mesomorphic behaviors, GQ Ali, IHR Tomi, Soft Materials 16 (2), 94-107, 2018
8. Synthesis and characterization of wide range mesogenic esters based on asymmetrical 2,5- disubstituted 1,3,4-thiadiazole, IHR Tomi, HJ Jaffer, YA Aldhaif, Phase Transitions 91 (4), 434-448, 2018
9. Synthesis and characterisation of new mesogenic esters derived from 1,2,4-oxadiazole and study the effect of alkoxy chain length in their liquid crystalline properties, GQ Ali, IHR Tomi, Liquid crystals 45 (3), 421-430, 2018
10. Synthesis and characterisation of asymmetrical mesogenic materials based on 2,5- disubstituted-1,3,4-oxadiazole, HJ Abboud, SJ Lafta, IHR Tomi, Liquid Crystals, 1-17, 2017
11. Synthesis and characterization of gallic acid derivatives and their utilized as organic photo-stabilizers for poly (vinyl chloride), IHR Tomi, GQ Ali, AH Jawad, E Yousif, Journal of Polymer Research 24, 119, 2017
12. Efficient and practical method for the synthesis of hydrophobic azines as liquid crystalline materials, AJ Hammood, AFH Kased, AJM Al-Karawi, SR Raseen, IHR Tomi, Molecular Crystals and Liquid Crystals 648 (1), 114-129, 2017
13. Asymmetric 1,3,4-thiadiazole derivatives: Synthesis, characterization and studying their liquid crystalline properties, IHR Tomi, DTA Al-Heetimi, HJ Jaffer, Journal of Molecular Structure 1141, 176-185, 2017
14. Synthesis, characterization of new carboxylic acid derivatives bearing 1,3,4-thiadiazole moiety and study their liquid crystalline behaviors, HJ Jaffer, YA Aldhaif, IHR Tomi, Molecular Crystals and Liquid Crystals 643 (1), 199-215, 2017
15. Non-symmetrically (1,2,4- and 1,3,4-)oxadiazole homologous: synthesis, characterisation and study the effect of different substituents on their mesophase behaviours, MMAR Al-Obaidy, IHR Tomi, HJ Jaffer, Liquid Crystals 44 (7), 1131-1145, 2017
16. Synthesis, characterisation and mesomorphic behaviours of non-symmetrically substituted 1,2,4- and 1,3,4-oxadiazole derivatives, IHR Tomi, MMAR Al-Obaidy, AHR Al- Daraji, Liquid Crystals 44 (4), 603-608, 2017

17. Photostability and Performance of Polystyrene Films Containing 1,2,4-Triazole-3-thiol Ring System Schiff Bases, Gassan Q. Ali 1, IHR Tomi, R Haddad, AJ Al-Qaisi, E Yousif, *Molecules* 21 (12), 1699, 2016
18. Synthesis, antimicrobial and docking study of three novel 2, 4, 5-triarylimidazole derivatives, IHR Tomi, AHR Al-Daraji, AM Abdula, MF Al-Marjani, *Journal of Saudi chemical society* 20, S509-S516, 2016
19. Novel bent-core mesogenic of 4-amino-triazole derivatives: synthesis, characterization and liquid crystalline study, IHR Tomi, AHR Al-Daraji, ZHJ Al-Qaisi, DTA Al-Heetimi, AHJ Al-Qaisi, *Tetrahedron* 72 (29), 4390-4399, 2016
20. Synthesis, characterization and comparative study the microbial activity of some heterocyclic compounds containing oxazole and benzothiazole moieties, IHR Tomi, JH Tomma, AHR Al-Daraji, AH Al-Dujaili, *Journal of Saudi Chemical Society* 19 (4), 392-398, 2015
21. Synthesis, characterization, and study the inhibitory effect of thiazole and thiadiazole derivatives toward the corrosion of copper in acidic media, IHR Tomi, AHR Al-Daraji, SA Aziz, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal*, 10, 2015
22. Synthesis, characterization and biological activities of some azo derivatives of aminothiadiazole derived from nicotinic and isonicotinic acids, IHR Tomi, AHR Al-Daraji, RRT Al-Qaysi, MM Hasson, KHD Al-Dulaimy, *Arabian Journal of Chemistry* 7 (5), 687-694, 2014
23. Synthesis, characterization and comparative study the antibacterial activities of some imine-amoxicillin derivatives, IHR Tomi, AH Abdullah, AHR Al-Daraji, SAR Abbass, *European Journal of Chemistry* 4 (2), 153-156, 2013
24. Synthesis and characterization of new polymers containing bis 1, 2, 4-triazole ring and used in the purification of wastewater from copper ion, AHR Al-Daraji, IHR Tomi, *Polymer-Plastics Technology and Engineering* 51 (13), 1327-1333, 2012
25. Synthesis, characterization and comparative study of mesomorphic properties of some new compounds containing both 1, 2, 4-and 1, 3, 4-oxadiazole moieties linked in the same ..., IHR Tomi, *Journal of Saudi Chemical Society* 16 (2), 153-159, 2012
26. Synthesis and characterization of new amino acid-schiff bases and studies their effects on the activity of ACP, PAP and NPA enzymes (In Vitro), ZSM Al-Garawi, IHR Tomi, AHR Al-Daraji, *Journal of Chemistry* 9 (2), 962-969, 2012
27. Synthesis, characterization and effect of bis-1, 3, 4-oxadiazole rings containing glycine moiety on the activity of some transferase enzymes, IHR Tomi, AHJ Al-Qaisi, ZHJ Al-Qaisi, *Journal of King Saud University-Science* 23 (1), 23-33, 2011
28. Synthesis and Mesomorphic Behavior of Some Novel Compounds Containing 1,3,4-Thiadiazole and 1,2,4-Triazole Rings, IHRAHAD Jumbed H. Tomma, *Mol. Cryst. Liq. Cryst* 501, 3-19, 2009