

Curriculum Vitae

Dr. Ivan Hameed R. Tomi

Mustansiriyah University – College of Science, Department of Chemistry
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PERSONAL SUMMARY:

Nationality	: Iraqi
Place and date of birth	: Baghdad, Iraq, 18th August 1976
Marital status	: Married
Corresponding address	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, Mustansiriyah University.
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 Department of chemistry, 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 Department of chemistry, 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 سنه 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 ثمانية مجلات علمية رصينة ضمن WOS 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 4 ودكتوراه عدد 3
- 9- 39 بحث منشور في مجلات علمية مصنفة في Clarivate Analytics
- 10- 7 بحوث منشورة في مجلات محلية
- 11- مناقشة اكثر من 25 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 1-7-2012 ولغاية 31-8-2014
- 14- اختياري ككاسب علمي من قبل الوزارة ل 3 مرات
- 15- عضو اللجنة المركزية للسيطرة على تداول المواد الكيميائية والبايولوجية الخطرة والسامة منذ عام 2016 ولحد 1-10-2019
- 16- عضو لجنة التزيات العلمية لقسم الكيمياء اعتبارا من 25-11-2018 ولغاية 8-9-2019
- 17- رئيس لجنة التزيات العلمية لكلية العلوم اعتبارا من 8-9-2019 ولغاية 2-9-2021
- 18- عضو مجلس قسم الكيمياء لأربع سنوات متفرقة
- 19- عضو لجنة علمية في قسم الكيمياء لأربع سنوات متفرقة
- 20- رئيس لجنة علمية في قسم الكيمياء للعام 2023 - 2024
- 21- رئيس لجنة رصانة المجلات العلمية للمتعيينين الجدد في الجامعة المستنصرية منذ 28-11-2023 ولحد الان
- 22- رئيس لجنة رصانة مجلات بحوث طلبة الدراسات العليا في الجامعة المستنصرية منذ 11-6-2025 ولحد الان
- 23- عدد البحوث المنشورة في مستوعب Clarivate Analytics 39 بحث ، h-index = 17

COURSES TAUGHT:

Undergraduate	Graduate
# polymer chemistry 4 th stage (theoretical and experimental)	# liquid crystal chemistry (postgraduate Msc and PhD) # Advanced polymer chemistry (postgraduate Msc and PhD) # Identification of organic compounds (PhD)

Ivan Hameed R. Tomi
h-index in clarivate = 16 , h-index in scopus = 17

PUBLICATIONS: (List of papers)

1. Synthesis, characterization and study the mesogenic properties of a new class of asymmetrical calamitic mesogenic materials based on imidazo[2,1-b][1,3,4]thiadiazole, Abdulnabi, N.M., Tomi, I.H.R., Journal of Molecular Structure, 2025, 1338, 142328
2. Synthesis and characterization of some non-symmetric iminic-thiadiazole derivatives and investigation of their mesomorphic behaviors, Habeeb, H.Q.A., Tomi, I.H.R., Journal of Molecular Structure, 2025, 1336, 142066
3. A new series of asymmetric calamitic esters based on 1,3,4-thiadiazole: synthesis, characterisation, and study of their thermo-optic properties, Habeeb, H.Q.A., Tomi, I.H.R., Liquid Crystals, 2025
4. New imidazo[2,1-b][1,3,4]thiadiazole mesogens: synthesis, characterisation and study their optical-thermo behaviors, Abdulnabi, N.M., Tomi, I.H.R., Liquid Crystals, 2025, 52(7-8), pp. 569–587
5. Synthesis and liquid crystal properties of a new class of calamitic mesogens based on twin 1,3,4-thiadiazole derivatives with imine linkage, Tomi, I.H.R., Tomma, J.H., Al-Dujaili, A.H. Molecular Crystals and Liquid Crystals, 2025, 769(1), pp. 92–101
6. Prediction of the corrosion inhibition efficiency and antibacterial activity of 1,2,4-oxadiazole derivatives using DFT and docking analysis: effect of alkoxy chain length, Mustafa M. Kadhim, Ivan Hameed R. Tomi, Anees A. Khadom, Journal of Adhesion Science and Technology, Volume 37, Issue 9, 2023
7. Mesogenic Behavior of New Derivatives Containing Azo-Ester-Imine Links with Different Substituted Alkoxy Groups as Terminal Tails, Mazin M. Abdul Razzaq Al-Obaidy, Hussein J. Abboud, Ivan Hameed R. Tomi, ChemistrySelect, 7(27), 2022
8. Non-symmetrical bent-core homologous series bearing 1,2,4-oxadiazole core with a cholesterol terminal arm: Synthesis, characterization and their liquid crystalline properties, Ghassan Q. Ali, Ivan Hameed R. Tomi, Journal of Molecular Structure, Volume 1257, 5 June, 132610, 2022
9. Synthesis and study the liquid crystalline behaviors of double Schiff bases bearing ester linkage as a central core, Mazin M. Abdul Razzaq Al-Obaidy, Ivan Hameed R. Tomi, Abdulqader M. Abdulqader, Liquid Crystals, 49(1), pp. 131-141, 2022
10. New calamitic mesogens derived from a furan ring: Synthesis, characterization and study of their mesomorphic behavior, Nabih M. Abdulnabi, Mazin M. Abdul Razzaq Al-Obaidy, Ivan Hameed R. Tomi, Hamed Jasim Jaffer, Journal of Molecular Liquids, Volume 325, 114562, 1 March 2021
11. Liquid crystal behavior of Ag(I) complexes based on a series of mesogenic 1,3,4-thiadiazole ligands, Ivan Hameed R. Tomi, Ahmed Jasim M. Al-Karawi, Al-Ameen Bariz OmarAli, Dhafir T. A. Al- Heetimi, Molecular Crystals and Liquid Crystals, 722(1), pp. 8-26, 2021

12. Synthesis, antimicrobial evaluation and docking study of novel 3,5-disubstituted-2-isoxazoline and 1,3,5-trisubstituted-2-pyrazoline derivatives, Ahmed H Ismail , Ahmed M Abdula , Ivan H R Tomi , Ali H R Al-Daraji , Younis Baqi, Medicinal Chemistry, 17(5), pp. 462-473, 2021
13. Synthesis and Characterization of Some Boomerang Imine-Ester Mesogenic Materials Based on Thiophene Unit, Abdulnabi, N.M., Habeeb, H.Q.A , Tomi, I.H.R., Jaffer, H.J, ChemistrySelect, 5(28), pp. 8740-8744, 2020
14. Electrochemical, morphological and theoretical studies of an oxadiazole derivative as an anti-corrosive agent for kerosene reservoirs in Iraqi refineries, Yaqo, E.A., Anaee, R.A., Abdulmajeed, M.H., Kadhim, M.M. Tomi, I.H.R. Chemical Papers, 74(6), pp. 1739-1757, 2020
15. 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
16. 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
17. 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
18. Expired Etoricoxib as a corrosion inhibitor for steel in acidic solution, Rana Afif Anaee, Ivan Hameed R. Tomi, Majid Hameed Abdulmajeed, Shaimaa Alaa Naser, Mustafa Mohammed Kathem, Journal of Molecular Liquids, Volume 279, Pages 594-602, 1 April 2019
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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

25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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
37. 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

38. 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
39. 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