

رزومه

دکتر علی حق طلب (استاد تمام)

دانشگاه تربیت مدرس - دانشکده مهندسی شیمی - تهران

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۱- مرتبه های علمی:

- استاد مهندسی شیمی (۱۳۸۷)
- دانشیار مهندسی شیمی (۱۳۷۶)
- استادیار مهندسی شیمی (۱۳۶۹)

۲- استاد مدعو:

- دانشگاه تورنتو، کانادا (۱۳۸۰)
- دانشگاه قطر (۱۳۸۳-۱۳۸۶)

۳- اطلاعات تحصیلی:

- دکتری مهندسی شیمی (PhD) ۱۹۹۰ - دانشگاه مک گیل (کانادا)
- کارشناسی ارشد مهندسی شیمی (پلیمر) (M.Eng.) ۱۹۸۵ - دانشگاه مک گیل (کانادا)
- کارشناسی ارشد پیوسته (B.Sc.) ۱۹۸۲ - دانشگاه شیراز (پهلوی سابق) (ایران)

۴- شاخص گوگل اسکولار

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۵- زمینه های پژوهشی:

- ترمودینامیک تعادلات فازی سیالات
- رفتار فازی سیالات مخزن
- ترمودینامیک مولکولی محلولها (الکترولیت ، پلیمر...)
- حلالیت گازها در محلولها
- هیدرات های گازی
- حلالیت داروها در حلالهای آبی و ارگانیک
- تبدیل گاز طبیعی به مایع (GTL)
- ازیاد بر داشت نفت با تزریق آب، گاز و سورفاکتنت

- تشکیل اسکیل (رسوب)، هیدرات و آسفالتین
- رئولوژی نانو کامپوزیت و سیالات ویسکوالاستیک
- استخراج و جداسازی بیومولکولها

۶- طرح‌های علمی و صنعتی :

- بررسی آزمایشگاهی و مدلسازی حلالیت مخلوط گازهای اسیدی در مخلوط های آلکانول آمینها
- شبیه سازی و مدلسازی واحدهای شیرین سازی گاز طبیعی
- آزمایش و مدلسازی ترمودینامیکی حلالیت مخلوط گازهای اسیدی در مخلوط های مایع یونی و آلکانول آمینها
- شبیه سازی واحد شیرین سازی پالایشگاه گاز قطر
- بررسی آزمایشگاهی و مدلسازی ترمودینامیکی رسوب گذاری نمک های معدنی در لوله های انتقال نفت، گاز و سطوح فلزی
- طراحی و ساخت یک دستگاه ویسکو الاستومر برای اندازه گیری خواص رئولوژیکی مواد مذاب پلیمری
- ساخت کاتالیست مونولیتی با پایه نانولوله کربنی برای بررسی سنتز فیشر تروپش
- آزمایش و اندازه گیری خواص ریولوژیکی نانو کامپوزیت های مذاب پلیمری PA6 و PP با ذرات نانو سیلیکا
- آزمایش و اندازه گیری خواص ویسکوالاستیک نانو کامپوزیت های مذاب پلیمری PA6 و ABS با ذرات نانو سیلیکا
- شیمی رئولوژی آمیزه‌های لاستیک (Chemo-Rheology)
- آمیزه‌های مواد پلیمری ترموپلاستیک ها (Blends)
- جداسازی مواد بیولوژیکی با استفاده از پلیمرهای آبدوست و میسل های معکوس
- مطالعه رئولوژیکی آمیزه‌های PE, PP
- بهینه‌سازی آمیزه‌های پیش پلیمری HTPB همراه با ذرات پرکننده پرکلرات آمونیوم
- پیش بینی خواص ویسکوالاستیک اپوکسی با الیاف یک لایه و موازی شیشه
- مطالعه رئولوژیکی و سینتیکی سوخت جامد مرکب بر پایه HTPB
- طراحی و ساخت یک دستگاه ویسکو الاستومر برای اندازه گیری خواص رئولوژیکی مواد مذاب پلیمری
- مطالعه امتزاج پذیری آمیزه‌های سه جزئی پلیمری با استفاده از مینیمم سازی انرژی آزاد

گیبس

۷- جوایز دریافت شده از جشنواره ها یا سایر مراجع معتبر:

- لوح تقدیر و جایزه برای تالیف کتاب برتر در سال ۱۳۹۲
- لوح تقدیر در کار گروه نظارت بر عملکرد دانشگاهها ۱۳۹۳

- لوح تقدیر برای عضویت در کمیسیون خاص ودبیرخانه شورای پژوهشهای علمی کشور؛ ۱۳۸۰ (معاون اول رییس جمهور جناب آقای دکتر حسن حبیبی)
- لوح تقدیر برای دبیری اولین کنگره ملی مهندسی شیمی ایران؛ ۱۳۷۳ (انجمن مهندسان شیمی ایران)
- لوح تقدیر برای دبیری دومین کنگره بین المللی انرژیهای تجدید ناپذیر؛ ۱۳۷۷ (دبیر خانه شورای پژوهش های علمی کشور)

۸- سردبیری و عضویت در هیات تحریریه نشریات علمی ، هیئت مدیره انجمن های علمی، داوری مقالات:

- عضویت در هیات تحریریه نشریه فناوری نفت، گاز و پتروشیمی دانشگاه خلیج فارس (بوشهر)
- عضویت در هیات تحریریه (۱۳۸۳-۱۳۸۰) نشریه مهندسی شیمی ایران (انجمن مهندسی شیمی ایران)
- عضویت در هیات تحریریه (۱۳۸۳-۱۳۸۰) نشریه علمی کاربردی مهندسی شیمی / پلیمر (دانشگاه تربیت مدرس)
- عضو هیئت موسس انجمن رئولوژی ایران
- عضویت در کمیته علمی ترمودینامیک (داوری مقالات) کنگره مهندسی شیمی ایران

۹- مقاله های چاپ شده در مجله های معتبر علمی ISI :

The Journal ISI Publications:

1. Habib Allah Shirazizadeh, Ali Haghtalab, " Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)", J. Chem. Thermodynamics 133, 111–122 (2019)
2. Seyed Mohammad Razavi, Ali Haghtalab, Ali Reza Khanchi, "An Electrolyte Non-random-UNIQUAC Model for Thermodynamic Modeling of Binary and Multicomponent Aqueous Electrolyte Systems", Journal of Solution Chemistry 48:624–657(2019)
3. Jafar Shariati, Ali Haghtalab, Amir Mosayebi, " Fischer–Tropsch synthesis using Co and Co-Ru bifunctional nanocatalyst supported on carbon nanotube prepared via chemical reduction method", Journal of Energy Chemistry, 28, 9-22 (2019)
4. Jafar Shariati, Ali Haghtalab, Amir Mosayebi, " Fischer–Tropsch synthesis using Co and Co-Ru bifunctional nanocatalyst supported on carbon nanotube prepared via chemical reduction method", Journal of Energy Chemistry, 28, 9-22 (2019)
5. Seyed Mohammad Razavi, Ali Haghtalab, Ali Reza Khanchi, " Thermodynamic modeling of the solvent extraction equilibrium for the recovery of vanadium (V) from acidic sulfate solutions using Di-(2-ethylhexyl) phosphoric acid", Fluid Phase Equilib., 474, 20-31 (2018).

6. Ali Haghtalab, Hesam Hasannataj, Hamidreza Soltani Panah, "Prediction of minimum miscibility pressure of pure CO₂, carbon dioxide gas mixtures and polymer-supercritical CO₂ in oil using modified quadrupole Cubic Plus Association Equation of State (mqCPA EoS)", *Fluid Phase Equilib.* 478, 114-128 (2018).
7. Haghtalab Ali, Mohammad Bagher Zare Talavaki, "Measurement of carbon dioxide solubility in aqueous diisopropanolamine solutions blended by N-(2-aminoethyl) ethanolamine + piperazine and density measurement of solutions", *Journal of Natural Gas Science and Engineering*, 46, 242-250 (2017).
8. Irandoust Amir · Ali Haghtalab, "A Hybrid Reduction–Impregnation Method in Preparation of Co–Ru/γ-Al₂O₃ Catalyst for Fischer–Tropsch Synthesis", *Catal Lett*, *Catal Lett*, 147:2967–2981 (2017).
9. Yarveicy Hamid, Ali Haghtalab, "Effect of amphoteric surfactant on phase behavior of hydrocarbon-electrolyte-water system-an application in enhanced oil recovery", *Journal of Dispersion Science and Technology*, 39(4), 522-530 (2017).
10. Hoseini Maryam, Ali Haghtalab , Mohammad Hossein Navid Famili, "Rheology and morphology study of immiscible linear low-density polyethylene/poly(lactic acid) blends filled with nanosilica particles", *Journal of Applied Polymer Science*, V. 134, I. 46, , 45526-45538 (2017).
11. Razavi Seyed Mohammad, Ali Haghtalab, Ali Reza Khanchi, "Solvent extraction and selective separation of vanadium (V) from an acidic sulfate solution using 2-Ethyl-1-Hexanol", *Separation and Purification Technology*, 188, 358-366 (2017).
12. Afsharpour A., A. Haghtalab, "Simultaneous measurement absorption of CO₂ and H₂S mixture into aqueous solutions containing Diisopropanolamine blended with 1-butyl-3-methylimidazolium acetate ionic liquid", *International Journal of Greenhouse gas Control*, 58, 71-80 (2017).
13. Yousofi Seyf Jaber, Ali Haghtalab," A Junction between Molecular Dynamic Simulation and Local Composition Models for Computation of Solid-Liquid Equilibrium-A Pharmaceutical Solubility Application, *Fluid Phase Equilibria*, 437, 83-95(2017).
14. Haghtalab Ali, H. Hasannataj. H. Soltani Panah," Modified quadrupole Cubic Plus Association Equation of State (mqCPA EoS) for thermodynamic modeling of polymer-supercritical CO₂ systems". *Fluid Phase Equilibria*, 435, 27-36(2017).
15. Afsharpour Ali, A. Haghtalab, "Modeling of CO₂ Solubility in aqueous N-methyldiethanolamine Solution Using Electrolyte modified HKM Plus Association Equation of State", *Fluid Phase Equilibria*, 433, 149-158(2017).
16. Shahi P., A. H. Behraves, Ali Haghtalab, Ghaus Rizivi, F. Goharpei, " An experimental study on foaming of linear low-density polyethylene/high-density polyethylene blends", *Journal of Cellular Plastics*, V. 53, N.1, 83-105 (2017)
17. Hoseini M., Ali Haghtalab, M. N. Famili,"Influence of Compounding Methods on Rheology and Morphology of Linear Low Density Polyethylene/Poly (Lactic Acid)", *Applied Rheology*, 26, 64746 (2016).
18. Haghtalab Ali, A. Moghaddam, " Prediction of Minimum Miscibility Pressure using UNIFAC Group Contribution Activity Coefficient model and LCVM mixing rule", *Ind. Eng. Chem. Res.*, 55, 2840-2851 (2016).

19. Haghtalab Ali, J. Yousofi, "Measurement and Thermodynamic Modeling the Solubility of Lamotrigine, Deferiprone, Cefixime Trihydrate, and Cephalexin Monohydrate in Different Pure Solvents from 283.1 to 323.1 K", *Journal of Chem. Eng. Data*, 61, 2170-2178 (2016)
20. Haghtalab Ali, M. Mohammadi, "Experimental study and thermodynamic modeling of CO₂ gas hydrate formation in presence of zinc oxide nanoparticles", *J. Chem. Thermodynamics*, 96, 24-33 (2016).
21. Soltani Panah H.R., Ali Haghtalab, M. Abdollahi, A. H. Mohammadi, D.Ramjugernath, W.M. Nelson, A. Zarringhalam Moghaddam a, M.Hemmati, "Experimental measurements and thermodynamic modeling of the cloud point pressure for solubility of copolymers of vinyl acetate and dibutyl maleate in supercritical CO₂", *Fluid Phase Equilib.*, 425, 136-142 (2016).
22. Haghtalab Ali, J. Yousofi, Y. Mansouri, "Flash Point Prediction of Binary and Ternary Mixtures Using Different Activity Coefficient Models", *Fluid Phase Equilib.*, 415, 58-63 (2016)
23. Haghtalab Ali, J. Yousefi Seyf, "A new insight to validation of local composition models in binary mixtures using molecular dynamic simulation", *AIChE J.*, V. 62 (1), 275-286, (2016).
24. Haghtalab Ali, M. H. Badizad, "Solubility of gypsum in aqueous NaCl+K₂SO₄ solution using calcium ion selective electrode- investigation of ionic interactions", *Fluid Phase Equilib.*, 409, 341-353 (2016).
25. Haghtalab Ali, J. Yousefi Seyf, "Vapor-Liquid and Solid-Liquid modeling with a UNiVersal QUAsiChemical Segment-based Activity Coefficient model (UNIQUAC-SAC)", *Ind. Eng. Chem. Res.*, 54, 8611-8623 (2015).
26. Shahi P., A. H. Behraves, Ali Haghtalab, Ghaus Rizivi, R. Pop-Iliev, F. Goharpei, "Effect of Mixing Intensity on Foaming Behavior of LLDPE/HDPE Blends in Thermal Induced Batch Process", *Polymer-Plastics Technology and Engineering*, V. 55, N.9, 949-964 (2016).
27. Haghtalab Ali, A. Afshapour, "Solubility of CO₂+ H₂S gas mixture into different aqueous N-methyldiethanolamine solutions blended with 1-butyl-3-methylimidazolium acetate ionic liquid", *Fluid Phase Equilibria*, 406, 10-20 (2015).
28. Haghtalab Ali, A. Izadi, "Solubility and thermodynamic modeling of hydrogen sulfide in aqueous diisopropanolamine + 2-amino-2-methyl-1-propanol + piperazine solution at high pressure", *J. Chem. Thermodynamics*, 90, 106-115 (2015).
29. Haghtalab Ali, A. Kheiri, "High pressure measurement and CPA Equation of State for solubility of carbon dioxide and hydrogen sulfide in 1-butyl-3-methylimidazolium acetate", *J. Chem. Thermodynamics*, 89, 41-50 (2015).
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35. Reza Gharibshahi, Arezou Jafari, Ali Haghtalab, Mohammad Saber Karambeigi, "Application of CFD to evaluate the pore morphology effect on nanofluid flooding for enhanced oil recovery", *RSC Adv.*, 2015, 5, 28938–28949 (2015).
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37. Delavar Hajar, Ali Haghtalab, “Thermodynamic modeling of gas hydrate formation conditions in the presence of organic inhibitors, salts and their mixtures using UNIQUAC model”, *Fluid Phase Equilibrium.*, v. 394, 101-117, (2015).
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 53. Moradi Sara, Ali Haghtalab, Alireza Fazlali, Prediction of hydrate formation conditions in the solutions containing electrolyte and alcohol inhibitors and their mixtures using UNIQUAC-NRF models", *Fluid Phase Equilibria*,349, 61-66 (2013)
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۱۱- تألیف یا تصنیف کتاب:

- ترمودینامیک مولکولی تعادلات فازی محلولها، تألیف: علی حق طلب، همکار: ابوالفضل شجاعیان، انتشارات دانشگاه تربیت مدرس، ۱۳۹۱.

۱۲- دروس تدریس شده:

- ترمودینامیک پیشرفته
- رفتار فازی سیالات مخزن
- مکانیک سیالات پیشرفته
- رپولوژی سیالات غیر نیوتونی
- ترمودینامیک مخلوطها
- پدیدههای انتقال سیالات غیر نیوتونی
- مهندسی گاز
- فراوری و تصفیه گاز
- ترمودینامیک مهندسی شیمی
- مکانیک سیالات
- انتقال حرارت
- فرآیند های پتروشیمیایی

۱۳- سوابق اجرایی:

- مدیر گروه مهندسی نفت (مخازن هیدروکربوری)
- رئیس بخش مهندسی شیمی
- مدیر قطب مهندسی شیمی فرآیند های هیدروکربونی (وزارت علوم، تحقیقات و فناوری)
- مدیر گروه مهندسی شیمی (فرآیند)
- مسئول گروه ترمودینامیک و سینتیک
- مدیر کل دفتر آموزش های آزاد وزارت علوم، تحقیقات و فناوری

- مدیر دفتر برنامه ریزی و آزمون (دکترای) دانشگاه تربیت مدرس
- معاون علمی دبیرخانه شورای پژوهش های علمی کشور
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