



دانشگاه صنعتی امیرکبیر  
(پلی تکنیک تهران)

پست الکترونیک:  
[hmodares@aut.ac.ir](mailto:hmodares@aut.ac.ir)

شماره تماس:

(Scopus) h-index

28

ارجاعات (Scopus):

3527

حمید مدرس

استاد

دانشکده مهندسی شیمی

(پیشکسوت)



### رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	شبیه سازی دینامیک مولکولی سامانه‌های الکترولیتی برای افزایش کارایی باتری‌های لیتیم - یون	بهنام قلمی چوبر و حمید مدرس	اسفند 1399
2	بهبود ویژگی‌های ساختاری دندریمرها و نانو لوله‌های کربنی به روش شبیه سازی مولکولی برای بهینه سازی کاربرد موثر آنها	سجاد کاویانی باغبادرانی و حمید مدرس	تیر 1398
3	تهیه و بررسی مورفولوژی نانو کامپوزیت پخت دینامیکی شده ی پلی لاکتیک اسید/لاستیک طبیعی/ نانو ذره به مطالعه برهمکنش نانو ذره- پلیمر با استفاده از شبیه سازی دینامیک مولکولی	مهسا نعمت الهی و حمید مدرس	اسفند 1397
4	بررسی بر همکنش دارو های کاهنده فشار خون با غشاهای بیولوژیکی در مقیاس نانو با استفاده از شبیه سازی دینامیک مولکولی	عباس یوسف پور شیرسوار و حمید مدرس	اسفند 1396
5	شبیه سازی و مدل‌سازی فرایند جداسازی مخلوط گازی با استفاده از غشاهای نانو کامپوزیت پلیمری	کریم گلزار و حمید مدرس	مهر 1396
6	شبیه سازی مولکولی رفتار سطح بین فازی، بررسی تاثیر ساختار مولکولی ماده سطح فعال	حسین رضایی و حمید مدرس	مهر 1395
7	مدل سازی مولکولی نفوذ و حلالیت داروها در سیستم های دارو رسانی	ابوذر خواجه و حمید مدرس	اردیبهشت 1393
8	دندریمر های دارورسان با هسته نانو ذرات فلزی: سنتز و بررسی دینامیک مولکولی	سپیده امجد ابرانق و حمید مدرس	بهمن 1392
9	شبیه سازی مولکولی جذب و جداسازی آلایند های هوا توسط جامدات متخلخل نانو حفره ای	محمود رحمتی و حمید مدرس	فروردین 1392
10	شبیه سازی اثر حرکت ذرات بر روی آسیب دیدگی سازند و گراول فشرده در مخازن نفتی	بهنام میرشکاری و حمید مدرس	مهر 1391

11	مدلسازی مولکولی حلالیت گازها در مایعات در سیستمهای دو جزئی	مانی صفامیرزائی و حمید مدرس	شهریور 1391
12	مدلسازی جریان نفت - آب در پیشگویی الگوی جریان و محاسبات دینامیک سیالاتی جریان پراکنده نفت - آب در لوله های افقی	علی اکبر عموی و حمید مدرس	دی 1390
13	شبیه سازی مولکولی پدیده تشکیل و تجزیه هیدراتهای گازی	حمید عرفان نیا و حمید مدرس	اسفند 1389
14	ارائه یک مدل جدید برای پیشگویی کشش سطحی مایعات	سیدمهدی لطیفی و حمید مدرس	بهمن 1388
15	پیشگویی ثوابت قانون هنری ترکیبات آلی در محلولهای آبی	حسن مدرسی قره بابا و حمید مدرس	اسفند 1384
16	پیشگویی کشش سطحی مخلوطهای مایع برمبنای مدل جدید	رضا طاهری و حمید مدرس	اسفند 1384
17	بررسی نظری و تجربی رفتار ترمودینامیکی محلولهای الکترولیت	محمدرضا دهقانی سانچ و حمید مدرس	اسفند 1384
18	بررسی رفتار فازی مخلوط با استفاده از نظریه های ترمودینامیک آماری	الهام کشمیری زاده و حمید مدرس	آبان 1383
19	بررسی نظری و تجربی رسوب آسفالتین در نفت خام ایران	علیرضا فضلعلی و حمید مدرس	اسفند 1378
20	توسعه مدل نظری و کاربردی روش تجربی ترمودینامیک	وحید تقی خانی و حمید مدرس	آبان 1378
21	رفتار تعادلی سیستم روغن NMP	غلامرضا وکیلی نژاد و حمید مدرس	مهر 1378
22	بررسی پایداری فازی مخلوطهای پلیمری دارای ئیدرو	مسعود تیموری و حمید مدرس	مهر 1378
23	بررسی تئوری و تجربی تعادلات فازی در فرآیند جداساز	محمدنادر لطف الهی و حمید مدرس	مهر 1378
24	بررسی تجربی و نظری تعادلات فازی برای سیستم پلیمری	علی الیاسی و حمید مدرس	تیر 1378

### پایان نامه های کارشناسی ارشد

#	عنوان پایان نامه	توسط	تاریخ دفاع
1	بررسی نظری و محاسباتی تشکیل لایه SEI روی سطح الکترودها در باتری های یون-لیتیم	احمد محمدی شیخلر و حمید مدرس	تیر 1399
2	سازوکار موثر در برهمکنش یون لیتیم با الکتروکاتد در باتری های لیتیم-یون: مطالعه ای با استفاده از روش مکانیک کوانتومی و شبیه سازی مولکولی.	امیرمسعود لنجان و حمید مدرس	بهمن 1398
3	کاربرد غشاهای پلیمری در تصفیه آب	حسن صدیقی و حمید مدرس	بهمن 1398
4	مطالعه خواص الکترولیت های پلیمری برای افزایش بازدهی باتری های یون-لیتیم با استفاده از شبیه سازی دینامیک مولکولی	زینب صمدی و حمید مدرس	بهمن 1398
5	بررسی تشکیل هیدرات های گازی با استفاده از تکنیک شبیه سازی دینامیک مولکولی	حسین طیب و حمید مدرس	اردیبهشت 1398
6	شبیه سازی نانولوله های کربنی به عنوان نانوحامل برای کاربرد در سیستم های دارورسانی	آزاده کردزاده و حمید مدرس	مهر 1397

7	فارسی: بررسی خواص الکترولیت برای بهبود باتری‌های یون - لیتیم با استفاده از شبیه سازی دینامیک مولکولی	هستی حق خواه و حمید مدرس	مهر 1397
8	بررسی جداسازی گازها توسط غشاهای پلیمری با استفاده از دینامیک مولکولی	احسان قاسم نژادافشار و حمید مدرس	مهر 1396
9	کاربرد شبیه سازی مولکولی در بررسی جداسازی ترکیبات آلی با طراحی مواد جاذب مناسب	گلشید هسراک و حمید مدرس	مهر 1396
10	بررسی برهمکنش دارو با نانوحامل ها، با استفاده از روش شبیه سازی دینامیک مولکولی	مهرنوش میرزازاده و حمید مدرس	مهر 1396
11	چگونگی تشکیل نانو MOF و بررسی کاربرد کاتالیستی	مریم صالحی شهرابی و حمید مدرس	مهر 1396
12	بررسی برهمکنش نانوحامل دارو و یک عامل زیست فعال با شبیه سازی دینامیک مولکولی	احسان گیفانی و حمید مدرس	تیر 1396
13	بررسی اتصال لیگندها به نانوحامل ها برای کاربرد در دارورسانی: شبیه سازی دینامیک مولکولی	عباس عبادی و حمید مدرس	اسفند 1395
14	بررسی جذب گاز دی اکسید کربن توسط جاذبها با عملکرد در مقیاس نانو	ساناز ضرابیان و حمید مدرس	اسفند 1395
15	بررسی تشکیل نانو ذرات طلا در جهت کاربرد صنعتی	شیدا شعبانی و حمید مدرس	اسفند 1395
16	مطالعه دینامیک مولکولی نانو حامل دارویی با غشاء زیستی	مریم ابراهیمی و حمید مدرس	بهمن 1395
17	بررسی اثر ساختار مولکولی در تعادلات فازي مایع - بخار ترکیبات دوتایی و سه تایی با روش شبیه سازی مولکولی	فرزاد راستی قهقرخی و حمید مدرس	مهر 1394
18	مطالعه مراحل تعیین کننده در مکانیسم عمومی تجزیه گاز در کنار کاتالیست با استفاده از شبیه سازی	سولماز سلیمانی و حمید مدرس	مهر 1394
19	محاسبه‌ی حلالیت گاز در مایعات به روش شبیه سازی مولکولی	میلاد نریمانی و حمید مدرس	مهر 1394
20	عنوان فارسی: بررسی کاربرد غشاهای پلیمری از دیدگاه ملکولی در جداسازی مخلوط ها	بتول جنتی و حمید مدرس	مهر 1394
21	کاربرد معادلات حالت در بررسی ذوب پلیمرها	مژگان رحمانی و حمید مدرس	اردیبهشت 1394
22	بررسی روی عوامل موثر در پایداری ذرات کلونیدی با استفاده از روش های شبیه سازی مولکولی	شمیم یوسفی و حمید مدرس	بهمن 1393
23	بررسی حذف هیدروژن سولفید با روش شبیه‌سازی مولکولی	شیرین مولاقلی پورمطلق و حمید مدرس	مهر 1393
24	بررسی تعادلات فازي سیستم پلیمر+ حلال	شاپور عابدی و حمید مدرس	مهر 1393
25	جداسازی غشائی به روش اسمز مستقیم	محسن رجب زاده چیمه و حمید مدرس	مهر 1393
26	محاسبه ضریب ژول تامسون با استفاده از معادله حالت MMM	مژده محبی و حمید مدرس	مهر 1393
27	شبیه سازی و بهینه سازی برجهای جذب آمین در پالایشگاه گاز	بابک طاهری اسکویی و حمید مدرس	مهر 1393
28	مطالعه کاربرد بیوپلیمرها در انتقال دارو با استفاده از شبیه سازی دینامیک مولکولی:	فریبا رزمی منش و حمید مدرس	مهر 1393
29	مطالعه غشاهای پلیمری به روش شبیه سازی دینامیک مولکولی:	فاطمه خداپرست کارونیان و حمید مدرس	مهر 1393

30	خالص سازی هیدروژن به روش جذب تناوبی فشار(PSA) در شرکت پتروشیمی جم	یعقوب امینی و حمید مدرس	شهریور 1393
31	شبیه سازی مولکولی نانو ساختارهای دنریمری پپتیدی در سامانه های دارورسانی	مریم لطفی زاده و حمید مدرس	تیر 1393
32	استفاده از دندریمر پلی-ل-لایزین در دارورسانی	پردیس فضلعلی و حمید مدرس	اردیبهشت 1393
33	مروری بر مدل سازی خوردگی های CO2 در خطوط لوله نفت و گاز	الهام قربان زاده و حمید مدرس	اردیبهشت 1393
34	مدلسازی جذب دی اکسید کربن به وسیله حلال شیمیایی در تماس دهنده های الیاف توخالی انوش سراجی و حمید مدرس	انوش سراجی و حمید مدرس	اردیبهشت 1393
35	شبیه سازی و مدلسازی واحد نم زدایی فازهای 6 و 7 و 8 پارس جنوبی	مجید شهبازی پاک و حمید مدرس	فروردین 1393
36	استفاده از شبیه سازی مولکولی جهت تحلیل سیستم های دارورسانی در برهمکنش با غشاء	علی رحیمی و حمید مدرس	بهمن 1392
37	سنتز فتوکاتالیست پد-دی اکسید تیتانیوم جهت حذف آلاینده رنگی متیل اورانژ	احسان خیرخواه فیینی و حمید مدرس	بهمن 1392
38	شبیه سازی مولکولی تاثیر نوع آمینو اسید در اتصال به گروه های انتهایی دندریمر پلی آمیدوآمین	گل شاد قجقی و حمید مدرس	بهمن 1392
39	بررسی عوامل موثر در حذف رطوبت از گاز طبیعی به وسیله غربالهای مولکولی	مصطفی موسایی و حمید مدرس	آبان 1392
40	شبیه سازی مولکولی تعادلات فازی	اوبران بلوری و حمید مدرس	مهر 1392
41	بررسی حلالیت گازهای اسیدی و عوامل موثر بر آن در حلال آمین	محمد پیک موسوی و حمید مدرس	مهر 1392
42	بررسی رفتار نانو حامل های دارویی با استفاده از روش دینامیک مولکولی	سجاد کاویانی باغبادانی و حمید مدرس	مهر 1392
43	بررسی شبیه سازی مولکولی اصلاح دندریمرها برای کاربرد در دارورسانی	طوبی حسن پور و حمید مدرس	مهر 1392
44	بررسی اثر حفاظت کاتودی بر آهنگ خوردگی در زیر پوششهای جدا شده با استفاده از تکنیک مقاومت پلاریزاسیون خطی	سمانه زارع مجتهدی و حمید مدرس	مهر 1392
45	بررسی رفتار خوردگی پوشش پلی پیرول بر روی فولاد کربنی	احسان شریعتمداری و حمید مدرس	اردیبهشت 1392
46	بررسی رسوب آسفالتین به روش شبیه سازی مولکولی	محسن حسین زاده و حمید مدرس	دی 1391
47	کاربرد نانو تکنولوژی در بررسی رهایش دارو	سیده زهرا موسوی و حمید مدرس	مهر 1391
48	شبیه سازی دینامیکی مولکولی نفوذپذیری و عبور پذیری گازها در اجسام متخلخل ، ترجیحا اجسام پلیمری	کریم گلزار و حمید مدرس	مهر 1391
49	بررسی فرآیند جداسازی گاز با استفاده از غشاء ، از دیدگاه مولکولی	مسعود امانی و حمید مدرس	مهر 1391
50	شبیه سازی مولکولی در مقیاس نانو با استفاده از روش MD در تحویل دارو	یوسف نادمی و حمید مدرس	مهر 1391
51	شبیه سازی غشاء بیولوژیکی در مقیاس نانو	عباس یوسف پورشیرسوار و حمید مدرس	شهریور 1391

52	جذب گازها بر روی زئولیت ها	سامرند محمدامینی و حمید مدرس	اردیبهشت 1391
53	تهیه هیدروژن از اتانول از طریق تبدیل با بخار آب بر روی نانو کاتالیست	علیرضا کریم زاده و حمید مدرس	اسفند 1390
54	بر همکنش‌های مولکولی ترکیبات زیستی در مقابل غشاءها در مقیاس نانو در محیط‌های آبی و آلی	سمانه داودی و حمید مدرس	بهمن 1390
55	بررسی خواص شیمیایی- فیزیکی سطح مشترک جامد- سیال از دیدگاه نانو متری	ابراهیم طیبی و حمید مدرس	بهمن 1390
56	بررسی شرایط بهینه رشد ریز جلبک نانو کلروپسیس در حضور گاز دی اکسید کربن	محمد ایزدی و حمید مدرس آبان 1390	
57	محاسبه کشش سطحی و ضریب ویسکوزیته با استفاده از خواص مولکولی	پوریا مقدم نودهی و حمید مدرس	مهر 1390
58	محاسبه کشش سطحی با استفاده از روشهای مدلسازی مولکولی	کاظم حیدری منش و حمید مدرس	مهر 1390
59	محاسبه عوامل موثر در اختلاط و حلالیت بر مبنای نظریه برهمکنش‌های مولکولی	آذر اکبری و حمید مدرس	مهر 1390
60	کاربرد معادلات حالت برای بررسی رفتار ترمودینامیکی سیالات تجمعی و محلولهای پلیمری	مجید اسمانی و حمید مدرس	مهر 1390
61	بررسی پدیده جذب سطحی در مقیاس نانو با استفاده از اصول ترمودینامیکی و روشهای شبیه سازی مولکولی	ارش خسروی و حمید مدرس	اسفند 1389
62	شبیه سازی مولکولی رفتار الکتروولیت در نانو حفره ها، تحت پدیده الکتروسینتیک	رضا شهریاری و حمید مدرس	اسفند 1389
63	شبیه سازی مولکولی بررسی پایداری نانو ذرات کلوییدی و مایسل	عبداله گلچوبی فیروزجایی و حمید مدرس	دی 1389
64	بررسی تشکیل فاز مایع از فاز بخار از دیدگاه ساختار نانو	علی اصغر سپهری و حمید مدرس	تیر 1389
65	مطالعه مواد نانو کامپوزیت در روکش دادن الکتروولس و تأثیر آن روی خواص فیزیکی- شیمیایی سوبستراها	سپیده امجدایرانق و حمید مدرس	دی 1388
66	کاربرد معادلات حالت تجمعی در بررسی رفتار فازی سیالات با پیوندهای هیدروژنی	حسین رضایی و حمید مدرس	دی 1388
67	پیش گویی کشش سطحی مخلوطهای آلی (با استفاده از روابط ترمودینامیکی سطح)	سیدمهدی موسوی سجاد و حمید مدرس	آذر 1388
68	بررسی تغییر فاز مواد و تشکیل مواد بلوری با ساختار نانو	سحر فرمنش و حمید مدرس	مرداد 1388
69	بررسی رفتار الکتروولیت‌ها در حفره‌های نانو	علی قوبدل دارستانی و حمید مدرس	تیر 1388
70	شبیه سازی مولکولی خواص فیزیکی و شیمیایی سیالات	سیدمهدی میرعارفین و حمید مدرس	تیر 1388
71	اثرات وارد کردن نانو ذرات در محلولهای الکتروولس و تأثیر آن بر خواص پوشش ها	علیرضا رحیمی زیناب و حمید مدرس	بهمن 1387
72	بهبود عملکرد پلیمرهای قالب مولکولی با استفاده از منومرهای با گروه عاملی متفاوت (مطالعات تجربی و تئوری)	فرین ادريس تبریز و حمید مدرس	بهمن 1387
73	بررسی ساختار مولکولی در خواص عملکردی جامدات متخلخل در مقیاس نانو	محمود رحمتی و حمید مدرس	دی 1387

74	بررسی جذب سطحی گاز بر روی زئولیت ها با استفاده از تئوری های مختلف	فاطمه فتوحی و حمید مدرس	دی 1387
75	جدایش بیومولکولها توسط سیستمهای دوفازی آبی از یک مخلوط چندجزئی همراه بامدلسازی فرایند	مریم خندان و حمید مدرس	اسفند 1386
76	شبیه سازی مولکولی عملکرد زئولیت در جذب گازی	محمد مفیدفر و حمید مدرس	اسفند 1386
77	محاسبه خواص ترموشیمیایی در جذب گازهای جاذبهای صنعتی	محمدعلی عباسی و حمید مدرس	اسفند 1386
78	کاربرد صنعتی مدلسازی مولکولی در بررسی رفتار ترمودینامیکی سیالات تجمعی	سارا خوشبخت و حمید مدرس	اسفند 1386
79	استفاده از نظریه های مولکولی در بررسی خواص ترمودینامیکی سیالات باناکید بر سیالات تجمعی	مهناز دودانگه و حمید مدرس	اسفند 1386
80	بررسی مخلوطهای پلیمر، الکترولیت، حلال از نظر شرایط ترمودینامیکی و جدایش فلزی	اعظم ایمانی کلوچه و حمید مدرس	اسفند 1386
81	بررسی مخلوطهای پلیمر - حلال و پلیمر - پلیمر از نظر شرایط فازی از دیدگاه ترمودینامیک آماری	الهام روحانی و حمید مدرس	اسفند 1386
82	اندازه گیری میانگین ضریب فعایت یونی آمینواسیدها در محلولهای الکترولیتی	مهدی ضعیفی یامچی و حمید مدرس	آبان 1386
83	مطالعه ترمودینامیک حلالیت گازها در مایعات و پلیمر مذاب	ابوذر خواجه و حمید مدرس	آبان 1386
84	شبیه سازی تجمع مولکولی و نقش آن در انتقال فاز	صفورا کریمی و حمید مدرس	شهریور 1386
85	ایجاد پوشش نیکل بدون اعمال الکتروسیسته بر روی آلیاژهای آلومینیوم و پلیمرها	حمیدرضا ملا و حمید مدرس	تیر 1386
86	مطالعه تعادلات فازی باروش کمینه سازی تابع گیبس و معادلات حالت	علی اکبر عموی و حمید مدرس	تیر 1386
87	ارزیابی خواص فیزیکی و شیمیایی فرایندهای پتروشیمیایی به روش تئوری و تجربی و بررسی رفتار فازی آنها با استفاده از ترمودینام	رضا کمالی و حمید مدرس	بهمن 1385
88	ارائه معادله حالات جدید برای سیالات تجمعی	امیرحسین فرخ نیائی و حمید مدرس	دی 1385
89	بررسی تستهای فشاری گذرادر مخازن شکافدار نفتی ایران	بهنام میرشکاری و حمید مدرس	دی 1385
90	حلالیت گازها و جامدات در مایعات	مانی صفامیرزائی و حمید مدرس	شهریور 1385
91	بررسی ترمودینامیکی فرایند جدایش پروتئین هادر سیستمهای دوفازی آبی	رام صنعتی فروش و حمید مدرس	تیر 1385
92	بررسی ریز ساختار و خواص ترمودینامیکی رسوب آسفالین در نفت خام	حمید عرفان نیا و حمید مدرس	دی 1384
93	طراحی شبکه مبدلهای حرارتی براساس تکنولوژی NIPC	نیما گشتاسب زاده و حمید مدرس	خرداد 1382
94	بررسی اثر افزودن پلیمر ابر مخلوط حلال در غیر الکت	هومن آقاسی بیگ و حمید مدرس	خرداد 1381
95	تعیین ضریب تقسیم پروتئینها در سیستمهای دو فازی	محبوبه ایلی و حمید مدرس	اردیبهشت 1381

اردیبهشت 1381	محسن قیامی باجگیرانی و حمید مدرس	96	بررسی ضرایب فلانیت محلولهای الکترولیت
اسفند 1380	اعظم خوانین زاده و حمید مدرس	97	تعیین ضریب فعالیت اسیدآمینه در محلول الکترولیت
اسفند 1380	سعید نوذری و حمید مدرس	98	بررسی ترمودینامیکی محلولهای دوفازی آبی پلیمر
اسفند 1380	سیدمسعود کاظمی طبائی زواره و حمید مدرس	99	سنتز شناسایی ژئولیت‌های مورد مصرف در آلودگی هوا
بهمن 1380	حسین قاسمی مبتکر و حمید مدرس	100	بررسی جذب کاتیونهای توریم و سدیم بر روی کلنوتیپیل
آبان 1379	نوشین میزانی و حمید مدرس	101	بررسی عوامل موثر بر چسبندگی محلول دیپ(چسب LFR)
آبان 1379	علیرضا اسمعیلی سانجود و حمید مدرس	102	بهبود خواص زیست سازگاری لاستیک RBS
دی 1378	حامد شادپور و حمید مدرس	103	سنتز فریتهای مغناطیسی
شهریور 1376	کامران اکبرزاده و حمید مدرس	104	بررسی تعادل جامد - مایع به روش های ترمودینامیک
شهریور 1376	غلامرضا پروانه تگمه داش و حمید مدرس	105	محاسبه منحنی ذوب هلیوم با استفاده از VCOL
اسفند 1375	میرمجید خلخالی زاویه و حمید مدرس	106	ارائه یک معادله جدید بررسی تعادلات فازی
مهر 1375	حمید راصد و حمید مدرس	107	اصلاح معادلات حالت بمنظور محاسبه انتالپی مخلوط
خرداد 1375	فروغ فیروزی و حمید مدرس	108	مطالعه خواص ترمودینامیکی مخلوطهای پلیمری

## مقالات ژورنال

داده های ثبت شده در پورتال

- 1 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, Hamid Modarress, "Investigation of nanoparticle-polymer interaction in bio-based nanosilica-filled PLA/NR nanocomposites: molecular dynamics simulation", *JOURNAL OF MOLECULAR MODELING*, Vol. 26, Num. 230, Page 1-20, August 2020,
- 2 Ehsan Ghasemnejad Afshar, , Mahdi Zarif, Hamid Modarress, "Effect of side branch on gas separation performance of triptycene based PIM membrane: A molecular simulation study", *POLYMER TESTING*, Vol. 83, Num. 0, Page 1-12, January 2020,
- 3 Behnam Ghalami Choobar, Hamid Modarress, Rouein Halladj,, "Multiscale Investigation on Electrolyte Systems of [(Solvent + Additive) + LiPF<sub>6</sub>] for Application in Lithium-Ion Batteries", *JOURNAL OF PHYSICAL CHEMISTRY C*, Vol. 123, Num. 0, Page 21913-21930, August 2019,
- 4 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "Effect of nanoparticle localization on the rheology, morphology and toughness of nanocomposites based on poly(lactic acid)/natural rubber/nanosilica", *POLYMER INTERNATIONAL*, Vol. 68, Num. 4, Page 779-787, January 2019,
- 5 Azadeh Kordzadeh, , Mahdi Zarif, Hamid Modarress, "Adsorption and encapsulation of the drug doxorubicin on covalent functionalized carbon nanotubes: A scrutinized study by using molecular dynamics simulation and quantum mechanics calculation", *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*, Vol. 88, Num. 0, Page 11-22, December 2018,

- 6 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "High-performance bio-based poly(lactic acid)/natural rubber/epoxidized natural rubber blends: effect of epoxidized natural rubber on microstructure, toughness and static and dynamic mechanical properties", *POLYMER INTERNATIONAL*, Vol. 0, Num. 0, Page 1-8, November 2018,
- 7 Sajjad Kavyani Baghbaderani, Mitra Dadvar, Hamid Modarress,, "Molecular Perspective Mechanism for Drug Loading on Carbon nanotube-Dendrimer: A Coarse grained Molecular Dynamics Study", *JOURNAL OF PHYSICAL CHEMISTRY B*, Vol. 122, Num. 33, Page 7956-7969, August 2018,
- 8 Abbas Yousefpour Shirsavar, , Fatemeh Goharpey, Hamid Modarress, "Effect of drug amlodipine on the charged lipid bilayer cell membranes DMPS and DMPS+ DMPC: a molecular dynamics simulation study", *EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS*, Vol. 47, Num. 8, Page 939-950, July 2018,
- 9 Porya Reshadi, Hamid Modarress, Bahram Dabir, Sepideh Amjad Iranagh, "Molecular dynamics simulation for studying the stability of structure H clathrate-hydrates of argon and large guest molecules", *JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY*, Vol. 39, Num. 11, Page 1572-1581, May 2018,
- 10 Sajjad Kavyani Baghbaderani, Mitra Dadvar, Hamid Modarress, Sepideh Amjad Iranagh, "A coarse grained molecular dynamics simulation study on the structural properties of carbon nanotube-dendrimer composites", *SOFT MATTER*, Vol. 14, Num. 0, Page 3151-3163, March 2018,
- 11 Abbas Yousefpour Shirsavar, Hamid Modarress, Fatemeh Goharpey,, "Interaction of drugs amlodipine and paroxetine with the metabolizing enzyme CYP2B4: a molecular dynamics simulation study", *JOURNAL OF MOLECULAR MODELING*, Vol. 24, Num. 0, Page 67-77, February 2018,
- 12 Milad Narimani, Sepideh Amjad Iranagh, Hamid Modarress, "Performance of tertiary amines as the absorbents for CO2 capture:Quantum mechanics and molecular dynamics studies", *Journal of Natural Gas Science and Engineering*, Vol. 47, Num. 0, Page 154-166, September 2017,
- 13 Karim Golzar, Hamid Modarress, Sepideh Amjad Iranagh, "Effect of pristine and functionalized single- and multi-walled carbon nanotubes on CO2 separation of mixed matrix membranes based on polymers of intrinsic microporosity (PIM-1) :a molecular dynamics simulation study", *JOURNAL OF MOLECULAR MODELING*, Vol. 23, Num. 0, Page 266-290, August 2017,
- 14 Rojan Akhbarati, Elham Keshmirizadeh, Hamid Modarress, "Uptake of acid blue 113 dye from aqueous solution by sludge/floc nanoparticles in electrocoagulation process", *DESALINATION AND WATER TREATMENT*, Vol. 87, Num. 0, Page 314-325, August 2017,
- 15 Milad Mohammareh Nezhad Rabieh, Bahram Nasernejad, Mitra Dadvar, Hamid Modarress, "calculation of multicomponent vapor -liquid critical point using the dividing rectangles global optimization algorithm", *PETROLEUM SCIENCE AND TECHNOLOGY*, Vol. 35, Num. 35, Page 910-921, August 2017,
- 16 Karim Golzar, Hamid Modarress, Sepideh Amjad Iranagh, "separation of gases by using pristin, composite and nanocomposite polymeric membranes: A molecular dynamics simulation study", *JOURNAL OF MEMBRANE SCIENCE*, Vol. 539, Num. 0, Page 238-256, June 2017,
- 17 Milad Narimani, Sepideh Amjad Iranagh, Hamid Modarress, "CO2 absorption into aqueous solutions of monoethanolamine, piperazine and their blends: Quantum mechanics and molecular dynamics studies", *JOURNAL OF MOLECULAR LIQUIDS*, Vol. 233, Num. 0, Page 173-183, March 2017,
- 18 Porya Reshadi, Hamid Modarress, Bahram Dabir, Sepideh Amjad Iranagh, "A study on dissociation of sll krypton hydrate and the effect of hydrocarbon guest molecules as stabilizer by molecular dynamics simulation", *PHASE TRANSITIONS*, Vol. 90, Num. 0, Page 1128-1142, March 2017,
- 19 Abbas Yousefpour Shirsavar, Hamid Modarress, Fatemeh Goharpey, Sepideh Amjad Iranagh, "Combination of anti-hypertensive drugs: a molecular dynamics simulation study", *JOURNAL OF MOLECULAR MODELING*, Vol. 23, Num. 0, Page 158-175, March 2017,
- 20 Elmira Moaveni, Elham Keshmirizadeh, Hamid Modarress, "Removal of acid red 151 dye from water by iron-impregnated heat treated egg shell bio-adsorbent", *DESALINATION AND WATER TREATMENT*, Vol. 67, Num. 0, Page 309-317, January 2017,
- 21 Hossein Rezaei, Mahmoud Rahmati, Hamid Modarress, "Application of ANFIS and MLR models for prediction of methane adsorption on X and Y faujasite zeolites: effect of cations substitution", *NEURAL COMPUTING & APPLICATIONS*, Vol. 0, Num. 0, Page 301-312, January 2017,



- 22 Karim Golzar, Hamid Modarress, Sepideh Amjad Iranagh, "Evaluation of density, viscosity, surface tension and CO solubility for 2 single, binary and ternary aqueous solutions of MDEA, PZ and 12 common ILs by using artificial neural network (ANN) technique", *INTERNATIONAL JOURNAL OF GREENHOUSE GAS CONTROL*, Vol. 53, Num. 0, Page 187-197, August 2016,
- 23 Sajjad Kavyani Baghbaderani, Sepideh Amjad Iranagh, Mitra Dadvar, Hamid Modarress, "Hybrid Dendrimers of PPI(core)?PAMAM(shell): A Molecular Dynamics Simulation Study", *JOURNAL OF PHYSICAL CHEMISTRY B*, Vol. 0, Num. 0, Page 9564-9575, August 2016,
- 24 Hossein Rezaei, Sepideh Amjad Iranagh, Hamid Modarress, "Self-Accumulation of Uncharged Polyaromatic Surfactants at Crude Oil-Water Interface : A Mesoscopic DPD Study", *ENERGY & FUELS*, Vol. 30, Num. 0, Page 6626-6639, July 2016,
- 25 Hossein Rezaei, Hamid Modarress, "Dissipative Particle Dynamics Study of Interfacial Properties and the Effects of Nonionic Surfactants on Hydrocarbon/Water Microemulsions", *JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY*, Vol. 37, Num. 0, Page 969-979, April 2016,
- 26 Karim Golzar, Sepideh Amjad Iranagh, Hamid Modarress, "Investigation of polymer ? solvent mixtures by means of cubic equations of state and artificial neural network", *FLUID PHASE EQUILIBRIA*, Vol. 415, Num. 0, Page 134-143, February 2016,
- 27 Ali Rahimi, Sepideh Amjad Iranagh, Hamid Modarress, "Molecular dynamics simulation of coarse-grained poly(L-lysine) dendrimers", *JOURNAL OF MOLECULAR MODELING*, Vol. 22, Num. 0, Page 59-68, February 2016,
- 28 Fatemeh Fotohi, Sepideh Amjad Iranagh, Karim Golzar, Hamid Modarress, "Predicting pure and binary gas adsorption on activated carbon with two-dimensional cubic equations of state (2-D EOSs) and artificial neural network (ANN) method", *PHYSICS AND CHEMISTRY OF LIQUIDS*, Vol. 54, Num. 3, Page 281-302, January 2016,
- 29 Sepideh Amjad Iranagh, Mahmoud Rahmati, Mahdi Haghi, Mohsen Hosenzadeh, Hamid Modarress, "Asphaltene Solubility in Common Solvents: A Molecular Dynamics Simulation Study", *CANADIAN JOURNAL OF CHEMICAL ENGINEERING*, Vol. 93, Num. 0, Page 2222-2232, October 2015,
- 30 Fatemeh Khodaparast Kazerunian, Sepideh Amjad Iranagh, Hamid Modarress, "Molecular dynamics simulation study of carboxylated and sulfonated poly(arylene ether sulfone) membranes for fuel cell applications", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, Vol. -, Num. 40, Page 15690-15703, August 2015,
- 31 Abbas Yousefpour Shirsavar, Hamid Modarress, Fatemeh Goharpey, Sepideh Amjad Iranagh, "Interaction of PEGylated anti-hypertensive drugs, amlodipine, atenolol and lisinopril with lipid bilayer membrane: A molecular dynamics simulation study", *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*, Vol. 1848, Num. 0, Page 1687-1698, May 2015,
- 32 Fariba Razmimanesh, Sepideh Amjad Iranagh, Hamid Modarress, "Molecular dynamics simulation study of chitosan and gemcitabine as a drug delivery system", *JOURNAL OF MOLECULAR MODELING*, Vol. 21, Num. 0, Page 165-178, May 2015,
- 33 Elham Keshmirizadeh, Hamid Modarress, Roghiyeh Didekhani, "The fast decolorization of Reactive Red 31(RR31) dye solution by ceric ammonium nitrate (CAN)", *DESALINATION AND WATER TREATMENT*, Vol. 57, Num. 0, Page 1-7, May 2015,
- 34 Karim Golzar, Sepideh Amjad Iranagh, Hamid Modarress, "Evaluation of compressibility factor and mean ionic activity coefficient for aqueous electrolyte solutions with hard sphere equations of state in the MSA model and artificial neural network method", *JOURNAL OF MOLECULAR LIQUIDS*, Vol. 207, Num. 0, Page 50-59, March 2015,
- 35 Hossein Rezaei, Hamid Modarress, "Disruptive particle dynamics (DPD) study of hydrocarbon-water interfacial tension (IFT)", *CHEMICAL PHYSICS LETTERS*, Vol. 620, Num. 0, Page 114-122, January 2015,
- 36 Farkhondeh Hemmati Shirayeh, Hamid Garmabi, Hamid Modarress, "Effects of Organoclay on the Compatibility and Interfacial Phenomena of PE/EVA Blends With UCST Phase Behavior", *POLYMER COMPOSITES*, Vol. 35, Num. 12, Page 2329-2342, December 2014,
- 37 Farkhondeh Hemmati Shirayeh, Hamid Garmabi, Hamid Modarress, "Compatibilization mechanisms of nanoclays with different surface modifiers in UCST blends: Opposing effects on phase miscibility", *POLYMER*, Vol. 55, Num. 55, Page 6623-6633, October 2014,

- 38 Karim Golzar, Sepideh Amjad Iranagh, Hamid Modarress, "Prediction of Density, Surface Tension, and Viscosity of Quaternary Ammonium-Based Ionic Liquids ([N222(n)]Tf2N) by Means of Artificial Intelligence Techniques", *JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY*, Vol. 35, Num. 0, Page 1809-1829, August 2014,
- 39 Karim Golzar, Sepideh Amjad Iranagh, Hamid Modarress, "Prediction of Thermophysical Properties for Binary Mixtures of Common Ionic Liquids with Water or Alcohol at Several Temperatures and Atmospheric Pressure by Means of Artificial Neural Network", *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, Vol. 53, Num. 0, Page 7247-7262, April 2014,
- 40 Sajjad Kavyani Baghbaderani, Sepideh Amjad Iranagh, Hamid Modarress, "Aqueous Poly(amidoamine) Dendrimer G3 and G4 Generations with Several Interior Cores at pHs 5 and 7: A Molecular Dynamics Simulation Study", *JOURNAL OF PHYSICAL CHEMISTRY B*, Vol. 118, Num. 0, Page 3257-3266, March 2014,
- 41 Farkhondeh Hemmati Shirayeh, Hamid Garmabi, Hamid Modarress, "Phase behavior of polyethylene/ethylene vinyl acetate blends :Studies on miscibility window, composition dependency of interfacial interactions, and enhanced toughness", *JOURNAL OF PLASTIC FILM & SHEETING*, Vol. 0, Num. 0, Page 1-19, March 2014,
- 42 Safoora Karimi, Mitra Dadvar, Hamid Modarress, Bahram Dabir, "A New Correlation for Inclusion of Leaky Junctions in Macroscopic Modeling of Atherosclerotic Lesion Initiation", *JOURNAL OF THEORETICAL BIOLOGY*, Vol. 2013, Num. 329, Page 94-100, March 2014,
- 43 Masoud Amani, Sepideh Amjad Iranagh, Karim Golzar, Gity Mir Mohamad Sadeghi, Hamid Modarress, "Study of nanostructure characterizations and gas separation properties of poly(urethane-urea)s membranes by molecular dynamics simulation", *JOURNAL OF MEMBRANE SCIENCE*, Vol. 462, Num. 0, Page 28-41, March 2014,
- 44 Aboozar Khajeh, Hamid Modarress, "Effect of cholesterol on behavior of 5-fluorouracil (5-FU) in a DMPC lipid bilayer, a molecular dynamics study", *BIOPHYSICAL CHEMISTRY*, Vol. 187, Num. 0, Page 43-50, February 2014,
- 45 Behnam Mirshekari, Mitra Dadvar, Hamid Modarress, Bahram Dabir, "Modeling and Simulation of Gravel Pack Damage De to Particle Transport by Single phase Flow in Cased Hole Completion", *International Journal of Oil Gas and Coal Technology*, Vol. 2014, Num. 7, Page 152-168, February 2014,
- 46 Sepideh Amjad Iranagh, Karim Golzar, Hamid Modarress, "Molecular simulation study of PAMAM dendrimer composite membranes", *JOURNAL OF MOLECULAR MODELING*, Vol. 20, Num. 0, Page 2119-2138, February 2014,
- 47 Aliakbar Amooey, Hamid Modarress, Bahram Dabir, Mitra Dadvar, "Transition Model of Stratified Oil-water Flow in a Horizontal Pipe", *PETROLEUM SCIENCE AND TECHNOLOGY*, Vol. 32, Num. 0, Page 878-887, February 2014,
- 48 Karim Golzar, Sepideh Amjad Iranagh, Masoud Amani, Hamid Modarress, "Molecular simulation study of penetrant gas transport properties into the pure and nanosized silica particles filled polysulfone membrane", *JOURNAL OF MEMBRANE SCIENCE*, Vol. 451, Num. 0, Page 117-134, January 2014,
- 49 Dariush Mohammadyani, Hamid Modarress, Alber C. To, Amir Amani, "Interactions of Fullerene (C60) and its Hydroxyl Derivatives with Lipid Bilayer: a Coarse-Grained Molecular dynamics Simulation", *BRAZILIAN JOURNAL OF PHYSICS*, Vol. -, Num. 44, Page 1-7, January 2014,
- 50 Safoora Karimi, Mitra Dadvar, Mahsa Dabagh, Jalali P., Hamid Modarress, Bahram Dabir, "Simulation of Pulsatile Blood Flow Through Stenotic Artery Considering Different Blood Rheologies: Comparison of 3D and 2D Axisymmetric Models", *BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS*, Vol. 25, Num. 2, Page 1-9, October 2013,
- 51 Yousef Nademi, Sepideh Amjad Iranagh, Abbas Yousefpour Shirsavar, Sayedezahra Mousavi, Hamid Modarress, "Molecular dynamics simulations and free energy profile of Paracetamol in DPPC and DMPC lipid bilayers", *JOURNAL OF CHEMICAL SCIENCES*, Vol. 126, Num. 3, Page 637-647, October 2013,
- 52 Sepideh Amjad Iranagh, Mahdi Zaeefi Yamchi, Majid Abdouss, Hamid Modarress, "Mean ionic activity coefficient ratio of NaBr and DL-valine in the (water + DL-valine + NaBr + K3PO4) system at T = (298.2 and 303.2) K", *JOURNAL OF CHEMICAL THERMODYNAMICS*, Vol. 68, Num. 0, Page 25-31, September 2013,
- 53 Farkhondeh Hemmati Shirayeh, Hamid Garmabi, Hamid Modarress, "Phase behavior of UCST blends: Effects of pristine nanoclay as an effective or ineffective compatibilizer", *EXPRESS POLYMER LETTERS*, Vol. 7, Num. 12, Page 996-1011, September 2013,
- 54 Ebrahim Tayebi, Sepideh Amjad Iranagh, Karim Golzar, Hamid Modarress, "Surface tension curvature correction for fluid-vapour interface by thermodynamics of curved boundary layers", *PHYSICS AND CHEMISTRY OF LIQUIDS*, Vol. 52, Num. 3, Page 400-415, August 2013,

- 55 Karim Golzar, Sepideh Amjad Iranagh, Hamid Modarress, "QSPR prediction of the solubility of CO<sub>2</sub> and N<sub>2</sub> in common polymers", *MEASUREMENT*, Vol. 46, Num. 0, Page 4206-4225, August 2013,
- 56 Sayedezahra Mousavi, Sepideh Amjad Iranagh, Yousef Nademi, Hamid Modarress, "Carbon nanotube-encapsulated drug penetration through the cell membrane: An investigation based on steered molecular dynamics simulation", *JOURNAL OF MEMBRANE BIOLOGY*, Vol. 246, Num. 0, Page 697-704, August 2013,
- 57 Behnam Mirshekari, Mitra Dadvar, Hamid Modarress, Bahram Dabir, "Modeling and Simulation of Multiphase flow formation damage by fine migration including the multilayer deposition effect", *International Journal of Oil Gas and Coal Technology*, Vol. 6, Num. 6, Page 624-643, July 2013,
- 58 Sepideh Amjad Iranagh, Abbas Yousefpour Shirsavar, Parto Haghighi, Hamid Modarress, "Effects of protein binding on a lipid bilayer containing local anesthetic articaine, and the potential of mean force calculation: a molecular dynamics simulation approach", *JOURNAL OF MOLECULAR MODELING*, Vol. 19, Num. 0, Page 3831-3842, July 2013,
- 59 Aliasghar Sepehri, Sepideh Amjad Iranagh, Karim Golzar, Hamid Modarress, "Homogeneous and heterogeneous nucleation of water vapor: A comparison using molecular dynamics simulation", *CHEMICAL PHYSICS*, Vol. 423, Num. 0, Page 135-141, July 2013,
- 60 Aboozar Khajeh, Hamid Modarress, "Linear and nonlinear quantitative structure-property relationship modelling of skin permeability", *SAR AND QSAR IN ENVIRONMENTAL RESEARCH*, Vol. 25, Num. 1, Page 35-50, June 2013,
- 61 Safoora Karimi, Mitra Dadvar, Hamid Modarress, Bahram Dabir, "Kinetic Modeling of low density lipoprotein oxidation in arterial wall and its application in atherosclerotic lesions prediction", *CHEMISTRY AND PHYSICS OF LIPIDS*, Vol. 1, Num. 8, Page 175-183, June 2013,
- 62 Azar Akbari, Hamid Modarress, "Modification of the Scaled Particle Theory for Solubility of Non-Polar Gases in Water", *JOURNAL OF SOLUTION CHEMISTRY*, Vol. 42, Num. 3, Page 615-633, April 2013,
- 63 Mahmoud Rahmati, Hamid Modarress, "Selectivity of new siliceous zeolites for separation of methane and carbon dioxide by Monte Carlo simulation", *MICROPOROUS AND MESOPOROUS MATERIALS*, Vol. 176, Num. 0, Page 168-177, April 2013,
- 64 Azar Akbari, Hamid Modarress, "Modification of the scaled particle theory for solubility of non-polar gases in water", *JOURNAL OF SOLUTION CHEMISTRY*, Vol. 42, Num. 0, Page 615-633, March 2013,
- 65 Alireza Karimzadeh, Hamid Modarress, Ali Eliassi, "Optimization of Hydrogen Production by Ethanol Steam Reforming Using Maximization of H /CO Ratio with 2 Taguchi Experimental Design Method", *Iranica Journal of Energy & Environment*, Vol. 4, Num. 2, Page 77-85, February 2013,
- 66 Abbas Yousefpour Shirsavar, Sepideh Amjad Iranagh, Yousef Nademi, Hamid Modarress, "Molecular Dynamics Simulation of Nonsteroidal Antiinflammatory Drugs, Naproxen and Relafen, in a Lipid Bilayer Membrane", *INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY*, Vol. 113, Num. 1, Page 1919-1930, February 2013,
- 67 Arash Khosravi, Abdollah Golchoobi, Hamid Modarress, Ali Ahmadzadeh, "The effects of partial charges and water models on water adsorption in nanostructured zeolites, application of PN-TrAz potential in parallel GCMC", *MOLECULAR SIMULATION*, Vol. 39, Num. 6, Page 495-504, January 2013,
- 68 Seyed Foad Aghamiri, Hamid Modarress, Zahra Nickmand, Hamed Taheri, "A Modified van der Waals Mixture Theory for Association Fluids: Application to Ternary Aqueous Mixtures", *IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION*, Vol. 31, Num. 4, Page 69-76, December 2012,
- 69 Azar Akbari, Hamid Modarress, "The solubility modelling of non-polar gases in polar and non-polar solvent based on scaled particle theory by artificial neural network", *PHYSICS AND CHEMISTRY OF LIQUIDS*, Vol. 1, Num. 0, Page 1-13, November 2012,
- 70 Aboozar Khajeh, Hamid Modarress, Hamed Zeinoddini Meymand, "Modified particle swarm optimization method for variable selection in QSAR/QSPR studies", *STRUCTURAL CHEMISTRY*, Vol. 24, Num. 0, Page 1401-1409, November 2012,
- 71 Aboozar Khajeh, Hamid Modarress, Hamed Zeinoddini Meymand, "Application of modified particle swarm optimization as an efficient variable selection strategy in QSAR/QSPR studies", *JOURNAL OF CHEMOMETRICS*, Vol. 26, Num. 0, Page 598-603, October 2012,

- 72 Aboozar Khajeh, Hamid Modarress, "Quantitative Structure-Property Relationship prediction of Gas Heat Capacity for Organic Compounds", *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, Vol. 51, Num. 0, Page 13490-13495, September 2012,
- 73 Abdollah Golchoobi Firoozjaie, Arash Khosravi, Hamid Modarress, Ali Ahmadzadeh, "Effect of Charge, Size and Temperature on Stability of Charged Colloidal Nano Particles", *CHINESE JOURNAL OF CHEMICAL PHYSICS*, Vol. 25, Num. 5, Page 617-624, August 2012,
- 74 Mani Safamirzaei, Hamid Modarress, ".Application of network molecular modeling for correlating and predicting Henry's law constants of gases in [bmim][PF6] at low pressures", *FLUID PHASE EQUILIBRIA*, Vol. -, Num. 332, Page 165-172, July 2012,
- 75 Mani Safamirzaei, Hamid Modarress, "correlating predicting low pressure solubility of gases in [bmim][BF4] by neural network molecular modeling", *THERMOCHIMICA ACTA*, Vol. -, Num. 545, Page 125-130, July 2012,
- 76 Aboozar Khajeh, Hamid Modarress, "Quantitative Structure-Property Relationship Prediction of Liquid Heat Capacity at 298.15 K for Organic Compounds", *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, Vol. -, Num. 51, Page 6251-6255, April 2012,
- 77 Mahmoud Rahmati, Hamid Modarress, "The effect of structural parameters of zeolite on the adsorption of hydrogen: a molecular simulation study", *MOLECULAR SIMULATION*, Vol. 38, Num. 13, Page 1038-1047, April 2012,
- 78 Mahmoud Rahmati, Hamid Modarress, Reza Gooya, "Molecular simulation study of polyurethane membranes", *POLYMER*, Vol. 53, Num. 53, Page 1939-1950, March 2012,
- 79 Hamid Erfan Nia, Hamid Modarress, "Molecular dynamics simulation of structure H clathrate-hydrates of binary guest molecules", *JOURNAL OF NATURAL GAS CHEMISTRY*, Vol. 20, Num. 6, Page 577-584, November 2011,
- 80 Mani Safamirzaei, Hamid Modarress, "Hydrogen solubility in heavy n-alkanes , modeling and prediction by artificial neural network", *FLUID PHASE EQUILIBRIA*, Vol. 310, Num. 0, Page 150-155, November 2011,
- 81 Aboozar Khajeh, Hamid Modarress, "Quantitative structure-property relationship for flash points of alcohols", *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, Vol. -, Num. 0, Page 1-6, August 2011,
- 82 Aboozar Khajeh, Hamid Modarress, "QSPR prediction of surface tension of refrigerants from their molecular structures", *INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID* , Vol. -, Num. 0, Page 1-10, August 2011,
- 83 Aboozar Khajeh, Hamid Modarress, "Quantitative structure-property relationship prediction of liquid thermal conductivity for some alcohols", *STRUCTURAL CHEMISTRY*, Vol. -, Num. 0, Page 1-9, July 2011,
- 84 Bahram Nasernejad, Seyedeh Marzieh Ghasemi Demneh, Hamid Modarress, "Modeling investigation of membrane biofouling phenomena by considering the adsorption of protein, polysaccharide and humic acid", *COLLOIDS AND SURFACES B-BIOINTERFACES*, Vol. 1, Num. 88, Page 108-114, June 2011,
- 85 Mani Safamirzaei, Hamid Modarress, "Modeling and predicting solubility of n-alkanes in water", *FLUID PHASE EQUILIBRIA*, Vol. 309, Num. 309, Page 53-61, June 2011,
- 86 Hamid Erfan Nia, Hamid Modarress, Esmail Zamin Pyma, "Molecular dynamics simulation of structure II clathrate hydrates of xenon and large hydrocarbonguest molecules", *JOURNAL OF CLUSTER SCIENCE*, Vol. -, Num. 22, Page 11-30, March 2011,
- 87 Hamid Erfan Nia, Hamid Modarress, Esmail Zamin Pyma, "computational study on the structure II clathrate hydrate of methane and larg guest molecules", *JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY*, Vol. 0, Num. 0, Page 0-0, February 2011,
- 88 Hamid Erfan Nia, Hamid Modarress, Esmail Zamin Pyma, "molecular dynamic study on the structure I clathrate-hydrate of metahane+ethane mixture", *ENERGY CONVERSION AND MANAGEMENT*, Vol. 52, Num. 0, Page 523-531, January 2011,
- 89 Aboozar Khajeh, Hamid Modarress, "quantitative structure -property relationship for surface tension of some common alcohols", *JOURNAL OF CHEMOMETRICS*, Vol. 23, Num. 23, Page 1-7, January 2011,

- 90 Hosain Rezaee, Hamid Modarress, Mohsen Mohsen Nia, Mohsen Amiri, "application of M4 cubic equation of state for refrigerants", *INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID*, Vol. 33, Num. 0, Page 1350-1355, November 2010,
- 91 Hamid Modarress, Mohsen Mohsennia, Leila Allaf Kari, "Adsorption of bovine serum albumin on to hydroxylapatite: theoretical modeling and measurements", *Iranian Journal of Chemistry & Chemical Engineering*, Vol. 29, Num. 4, Page 125-133, November 2010,
- 92 Aboozar Khajeh, Hamid Modarress, "QSPR prediction of flash point of esters by means of GFA and ANFIS", *JOURNAL OF HAZARDOUS MATERIALS*, Vol. 179, Num. 0, Page 715-720, May 2010,
- 93 Hamid Modarress, "Extended scaled particle theory for surface tension prediction of liquid mixtures", *physics and chemistry of liquids*, Vol. 48, Num. 1, Page 0-0, March 2010,
- 94 Hosain Rezaee, Hamid Modarress, Mohsen Mohsen-Nia, "extension of new proposed association equation of state(AEOS) to associating fluid mixtures", *J.chem.thermodynamics*, Vol. 42, Num. 0, Page 808-816, March 2010,
- 95 Hamid Modarress, "Application of Genetic Programming to modeling and prediction of activity coefficient ratio of electrolytes in aqueous electrolyte solution containing amino acids", *Iran.j.chem.chem.Eng*, Vol. 28, Num. 3, Page 0-0, February 2010,
- 96 Hamid Modarress, "Effect of alumina nanoparticles as nanocomposites on morphology and corrosion resistance of electroless Ni-P coating", *Surface Engineering*, Vol. 0, Num. 0, Page 0-0, February 2010,
- 97 Mani Safamirzaei, Hamid Modarress, Mohsen Mohsen Nia, "Modeling the hydrogen solubility in methanol, ethanol, 1-propanol and 1-butanol", , Vol. , Num. 289, Page 0-0, February 2010,
- 98 [en-name N/A], Hamid Modarress, "Prediction of solubility of gases in polystyrene by Adaptive Neuro-Fuzzy Inference System and Radial Basis Function Neural Network", , Vol. 0, Num. 37, Page 0-0, February 2010,
- 99 Alireza Rahimi Zeinab, Hamid Modarress, Majid Abdouss, "Study on morphology and corrosion resistance of electroless Ni-P coatings", *SURFACE ENGINEERING*, Vol. 0, Num. 25, Page 367-371, January 2010,
- 100 Hamid Modarress, "Study on morphology and corrosion resistance of electroless Ni-P coating", *surface engineering*, Vol. 25, Num. 5, Page 0-0, January 2010,
- 101 Hamid Modarress, "Electroless nickel-phosphorus deposition on carbon steel CK-75 and study of the effect of some parameters on properties of the deposits", *J.Coat.Technol.Res*, Vol. 0, Num. 0, Page 0-0, December 2009,
- 102 Mahdi Zaeefi Yamchi, Majid Abdouss, Hamid Modarress, "Application of Genetic Programming to Modeling and Prediction of Activity Coefficient Ratio of Electrolytes in Aqueous Electrolyte Solution Containing Amino Acids", *IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION*, Vol. 28, Num. 3, Page 71-80, September 2009,
- 103 Azam Imani Kloojeh, Hamid Modarress, Ali Eliassi, Majid Abdouss, "Cloud-point measurement for (sulphate salts + polyethylene glycol 15000 + water) systems by the particle counting method", , Vol. , Num. 41, Page 0-0, July 2009,
- 104 Mahmoud Rahmati, Hamid Modarress, "Nitrogen adsorption on nanoporous zeolites studied by Grand Canonical Monte Carlo simulation", , Vol. , Num. 901, Page 0-0, May 2009,
- 105 [en-name N/A], Hamid Modarress, Babak Rezaee Khabooshan, "Application of adaptive neuro-fuzzy inference system for solubility prediction of carbon dioxide in polymers", , Vol. , Num. 36, Page 0-0, April 2009,
- 106 Mohsen Mohsen Nia, Hamid Modarress, Fatemeh Alimohammadi, "Densities and Viscosities of Binary Mixtures of Poly(vinyl chloride) and Tetrahydrofuran at Temperatures (283.15 to 303.15) K", , Vol. , Num. 54, Page 0-0, March 2009,
- 107 Behnam Mirshekari, Hamid Modarress, Saeed Mohammadi Bardburi, "Well Test Analysis of Naturally Fractured Reservoirs with Unsteady State Behavior Using Direct Synthesis Technique", , Vol. , Num. 27, Page 0-0, February 2009,
- 108 Mahmoud Rahmati, Hamid Modarress, "Grand canonical Monte Carlo simulation of isotherm for hydrogen adsorption on nanoporous siliceous zeolites at room temperature", , Vol. , Num. 255, Page 0-0, February 2009,

- 109 Mohsen Mohsen Nia, Hamid Modarress, "Measuring and Modeling Liquid-Liquid Equilibria for a Soybean Oil,Oleic Acid ,Ethanol ,and Water System", , Vol. , Num. 85, Page 0-0, December 2008,
- 110 [en-name N/A], Hamid Modarress, "Modified equation of state for pure and hard sphere mixtures in mean ionic activity coefficient calculations by mean spherical approximation model", , Vol. , Num. 142, Page 0-0, August 2008,
- 111 Mani Safamirzaei, Hamid Modarress, Mohsen Mohsen Nia, "Modeling and predicting the Henrys law constants of methyl ketones in aqueous sodium sulfate solutions with artificial neural network", , Vol. , Num. 266, Page 0-0, April 2008,
- 112 Hamid Modarress, Mohsen Mohsen Nia, Mani Safamirzaei, "Modeling the Solubility of 1,1,1,2,-Tetrafluoroethane,1-Chloro-1,1-Difluoroethane,Butane and Iso-Butane in LDPE with Artificial Neural Network", , Vol. , Num. 17, Page 0-0, March 2008,
- 113 Mohsen Mohsen Nia, [en-name N/A], Hamid Modarress, "Liquid-liquid equilibria for the poly(ethylene glycol) plus water plus copper sulfate system at different temperatures", , Vol. , Num. 53, Page 0-0, January 2008,
- 114 [en-name N/A], Hamid Modarress, Mohsen Mohsen Nia, "A Three-Parameter Cubic Equation of State for Prediction of Thermodynamic Properties of Fluids", , Vol. , Num. 40, Page 0-0, January 2008,
- 115 [en-name N/A], Hamid Modarress, Mohsen Mohsen Nia, "Solubility Prediction of High Molecular Weight n-Paraffins in Supercritical Carbon Dioxide", , Vol. , Num. 3, Page 0-0, December 2007,
- 116 [en-name N/A], Hamid Modarress, Mohsen Mohsen Nia, "Solubility Prediction for Carbon Dioxide in Polymers by Artificial Neural Network", , Vol. , Num. 16, Page 0-0, December 2007,
- 117 Mohsen Mohsen Nia, Hamid Modarress, "Liquid-liquid equilibrium for system corn oil plus oleic acid plus ethanol plus water", , Vol. , Num. 6, Page 0-0, December 2007,
- 118 Behnam Mirshekari, Hamid Modarress, [en-name N/A], "Application of Pressure Derivative Function for Well Test Analysis of Triple Porosity Naturally Fractured Reservoirs", , Vol. , Num. 110943, Page 0-0, December 2007,
- 119 Hamid Modarress, Mohsen Mohsen Nia, "Experimental study of bovine serum albumin adsorption onto hydroxylapatite", , Vol. , Num. 131, Page 0-0, September 2007,
- 120 Mohsen Mohsen Nia, Hamid Modarress, "Removal of Cu<sup>2+</sup> and Ni<sup>2+</sup> from wastewater with a chelating agent and reverse osmosis processes", , Vol. , Num. 217, Page 0-0, September 2007,
- 121 Mohammad Nader Lotfolahi, Hamid Modarress, Behzad Khodakarami, "VLE Predictions of Strongly Non-Ideal Binary Mixtures by Modifying Van Der Waals and Orbey -Sandler Mixing Rules", , Vol. , Num. 3, Page 0-0, February 2007,
- 122 [en-name N/A], Hamid Modarress, Bahram Nasernejad, "Structural and partitioning studies of bovine serum albumin in mixture of (poly(ethylene glycol) plus K<sub>2</sub>HPO<sub>4</sub>+H<sub>2</sub>O)", *Journal of Chemical and Engineering Data*, Vol. , Num. 52, Page 0-0, February 2007,
- 123 Hassan Modarresi Gharebaba, Hamid Modarress, John C.Dearden, "QSPR model of Henry's law constant for a diverse set of organic chemicals based on genetic algorithm-radial basis function network approach", , Vol. , Num. 66, Page 0-0, February 2007,
- 124 [en-name N/A], Hamid Modarress, [en-name N/A], [en-name N/A], "Association Equation of State for Hydrogen-Bonded Substances", , Vol. , Num. 85, Page 0-0, February 2007,
- 125 Mohsen Mohsen Nia, Hamid Modarress, "Viscometric Study of Aqueous Poly (Vinyl Alcohol) (PVA ) Solutions as a Binder in Adhesive Formulations", , Vol. , Num. 12, Page 0-0, September 2006,
- 126 Mohammadreza Dehghani Sanij, Hamid Modarress, Manijhe Monirifar, "Measurement and Modelling of Mean Activity Coefficients of Aqueous Mixed Electrolyte Solution Containing Glycine", , Vol. , Num. 38, Page 0-0, August 2006,
- 127 Hamid Erfannia, Hamid Modarress, Ali Reza Fazleali, Mohammad Hosain Namazi Ghadim, "Phase Behavior of Binary Mixture of Asphaltene +Solvent and Ternary Mixture of Asphaltene +Solvent + Precipitant", , Vol. , Num. 245, Page 0-0, August 2006,
- 128 Mohsen Mohsen Nia, [en-name N/A], Hamid Modarress, "Cloud-Point Measurements for (Water=Poly(Ethylene Glycol) = Salt) Ternary Mixtures by Refractometry Method", , Vol. , Num. 51, Page 0-0, July 2006,

- 129 Mohammadreza Dehghani Sanij, Hamid Modarress, [en-name N/A], "Modeling and Prediction of Activity Coefficient Ratio of Electrolytes in Aqueous Electrolyte Solution Containing Amino Acids Using Artificial Neural Network", , Vol. , Num. 244, Page 0-0, June 2006,
- 130 Reza Tahery, Hamid Modarress, John Satherly, "Density and Surface Tension of Binary Mixtures of Acetonitrile + 1-Alkanol at 293.15 K", , Vol. , Num. 51, Page 0-0, May 2006,
- 131 Hassan Modarresi Gharebaba, John C. Dearden, Hamid Modarress, "QSPR Correlation of Melting Point For Drug Compounds Based On Different Sources of Molecular Descriptors", , Vol. , Num. 46, Page 0-0, April 2006,
- 132 [en-name N/A], Mohsen Mohsen Nia, Hamid Modarress, "Measurements and Modeling of Quaternary (Liquid +Liquid ) Equilibria for Mixtures of (Methanol or Ethanol+ Water + Toluene + N-Dodecane)", , Vol. , Num. 38, Page 0-0, April 2006,
- 133 Mohammad Nader Lotfolahi, [en-name N/A], Hamid Modarress, "Ternary Phase Diagram for Polymer/ Solvent / Supercritical- CO<sub>2</sub> by Sanchez -Lacombe Model", , Vol. , Num. 2, Page 0-0, March 2006,
- 134 Hamid Modarress, Mohsen Mohsen Nia, "Experimental and Theoretical Studies of Viscosities of Ternary Mixture (2-Propanol+Ethyl Acetate +N-Hexane) and its Binary Constituents at 298.15, 308.15 and 313.15K", , Vol. , Num. 1, Page 0-0, February 2006,
- 135 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "(Liquid + Liquid ) Equilibria for Ternary Mixtures of (Methanol or Ethanol + Toluene or M-Xylene + N-Dodecane)", , Vol. , Num. 38, Page 0-0, February 2006,
- 136 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "Quaternary Liquid -Liquid Equilibria for Systems of (Water + Methanol or Ethanol ) +M-Xylene + N-Dodecane", , Vol. , Num. 239, Page 0-0, January 2006,
- 137 Mohsen Miandhy, Hamid Modarress, Mohammadreza Dehghani Sanij, "Equation of State for Hard -Spheres and Excess Function Calculations of Binary Liquid Mixtures", , Vol. , Num. 239, Page 0-0, January 2006,
- 138 Mohammadreza Dehghani Sanij, Hamid Modarress, Manijhe Monirifar, "Measurement and Modeling of Mean Activity Coefficients of NaBr and Amino Acid in (Sodium Bromide+Potassium Phosphate+ Glycine+ Water) System at T(298.15 and 308.15)K", , Vol. , Num. 37, Page 0-0, December 2005,
- 139 Mohsen Mohsen Nia, Hamid Modarress, "Excess Molar Volume Measurements of Ternary Mixtures (2-Propanol+ Ethyl Acetate +N-Hexane)and Their Binary Constituents at 298.15, 308.15 and 313.15 K", , Vol. , Num. 6, Page 0-0, December 2005,
- 140 Mohammad Karimi, W Albrecht, M Heuchel, Mohammad Haghghat Kish, J Frahn, Th Weigel, D Hofmann, Hamid Modarress, A Lendlein, "Determination of Water/Polymer Interaction Parameter for Membrane-Forming Systems by Sorption Measurement And a Fitting technique", , Vol. , Num. 265, Page 0-0, November 2005,
- 141 Hassan Modarresi Gharebaba, Hamid Modarress, "Henry Law Constant of Hydrocarbons in air -Water System: The Cavity Ovality Effect on the Non -Electrostatic Contribution Term of Solvation Free Energy", , Vol. , Num. 5, Page 0-0, October 2005,
- 142 Shaghayegh Jafari, Hamid Modarress, "A Study on Swelling and Complex Formation of Acrylic Acid and Methacrylic Acid Hydrogels With Polyethylene Glycol", , Vol. , Num. 14, Page 0-0, October 2005,
- 143 Reza Tahery, Hamid Modarress, "A New and A Simple Model for Surface Tension Prediction of Water and Organic Liquid Mixtures", , Vol. , Num. 0, Page 0-0, October 2005,
- 144 Reza Tahery, Hamid Modarress, John Satherly, "Surface Tension Prediction and Thermodynamic Analysis of the Surface for Binary Solutions", , Vol. , Num. 60, Page 0-0, September 2005,
- 145 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "Measurement and Modeling of Density, Kinematic Viscosity, and Refractive Index for Poly(Ethylene Glycol) Aqueous Solution at Different Temperatures", , Vol. , Num. 50, Page 0-0, August 2005,
- 146 Hamid Modarress, Ali Eliassi, Elham Keshmirzadeh, "Enthalpy of Mixing for Polymer Solutions Based on Gibbs Excess Function Limit of Hard Spheres Mixtures", , Vol. , Num. 235, Page 0-0, August 2005,
- 147 Mir Majid Khalkhali Zavieh, Hamid Modarress, Mohsen Mohsen Nia, "Correction on parameters of MMM equation of state for temperature dependence", , Vol. , Num. 192, Page 0-0, June 2005,

- 148 Hamid Modarress, "Measurement and modeling of poly (vinyl acetate ) \_ solvent viscosity mixtures", , Vol. , Num. , Page 0-0, May 2005,
- 149 Behzad Khodakarami, Hamid Modarress, Mohammad Nader Lotfolahi, "Study of the high - pressure vapour - liquid equilibria for strongly non - ideal binary and ternary mixtures", , Vol. , Num. 83, Page 0-0, April 2005,
- 150 Ali Eliassi, Hamid Modarress, "Excess volume of polymer /solvent mixtures and proposed model for prediction of activity of solvents based on excess volume data", , Vol. , Num. 95, Page 0-0, March 2005,
- 151 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], [en-name N/A], "Liquid +Liquid Equilibria for Ternary Mixtures of (Solvent +Aromatic Hydrocarbon +Alkane)", , Vol. , Num. 37, Page 0-0, March 2005,
- 152 Hamid Modarress, Mohammad Mohammadnia, Reza Mostofi Khoshmehr, "Viscosity measurements and modelling of aqueous polyvinyl alcohol mixtures", , Vol. , Num. , Page 0-0, February 2005,
- 153 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "Solubility of 1,3,5-trioxane in methanol, ethanol, and 2-propanol", , Vol. , Num. , Page 0-0, December 2004,
- 154 [en-name N/A], Hamid Modarress, [en-name N/A], Mohsen Mohsen Nia, "Self-association study of methanol in CC by FT-NMR spectroscopy", , Vol. , Num. , Page 0-0, December 2004,
- 155 Reza Tahery, John Satherly, Hamid Modarress, "Scaled particle theory : Relationships between compressibility , surface tension , and molecular diameter", , Vol. , Num. 2, Page 0-0, September 2004,
- 156 Omid Moradi, Mehdy Nowrozy, Hamid Modarress, "Experimental study of albumin and lysozyme adsorption onto acrylic acid (AA) and 2 \_ hydroxyethyl methacrylate (HEMA ) surface", , Vol. , Num. 27, Page 0-0, April 2004,
- 157 Leila Mahdavian, Hamid Modarress, "Dominant association species in binary mixtures of methanol, ethanol and propanol in nonpolar solvents", , Vol. , Num. 3, Page 0-0, April 2004,
- 158 Hamid Modarress, Mohsen Mohsen Nia, Mahmoud Akhavan Mahdavi, "Experimental and theoretical studies of polymer/solvent viscosity mixtures", , Vol. , Num. 91, Page 0-0, February 2004,
- 159 Gholam Reza Nakhaee, Hamid Modarress, "Simplification and application of the mean spherical approximation (MSA) model for 1:1 electrolyte solution", , Vol. , Num. , Page 0-0, February 2004,
- 160 Hamid Modarress, Leila Mahdavian, [en-name N/A], "Experimental and theoretical study of self-association of lighth alcohols in chloroform by NMR spectroscopy", , Vol. 0, Num. 58, Page 0-0, January 2004,
- 161 Hamid Modarress, Noushin Pouryazdanpanah Kermani, "Correlation of NMR and refractometry results to evaluate the stability constant of carbon tetrachloride complexes", , Vol. 0, Num. 58, Page 0-0, January 2004,
- 162 Hamid Modarress, Mohsen Mohsen Nia, Mahmoud Akhavan Mahdavi, "A new two-parameter equation for viscosity calculations", , Vol. 0, Num. 58, Page 0-0, January 2004,
- 163 [en-name N/A], Hamid Modarress, Hossein Ghasemi Mobtaker, "Iranian natural clinoptilolite and its synthetic zeolite P for removal of cerium and thorium from nuclear wastewaters", , Vol. , Num. 258, Page 0-0, December 2003,
- 164 Ali Eliassi, Hamid Modarress, [en-name N/A], "Extension of Flory - Huggins theory to satisfy the hard sphere limit", , Vol. , Num. 5, Page 0-0, October 2003,
- 165 Azam Khavaninzadeh, Hamid Modarress, Vahid Taghi Khani, [en-name N/A], "Measurement of activity coefficients of glycine in aqueous electrolyte solutions: experimental data for the system", , Vol. , Num. 33, Page 0-0, September 2003,
- 166 Azam Khavaninzadeh, Hamid Modarress, Vahid Taghi Khani, [en-name N/A], "Measurement of activity coefficients of amino acids in aqueous electrolyte solutions: experimental data for the systems (H<sub>2</sub>O plus NaBr plus glycine) and (H<sub>2</sub>O plus NaBr plus L-valine) at T=298.15K", , Vol. , Num. 35, Page 0-0, September 2003,
- 167 Hamid Modarress, Mohsen Miandhy, "Equation of state for hard - spheres", , Vol. , Num. , Page 0-0, August 2003,
- 168 Hamid Modarress, Saeed Nozary, Ali Eliassi, "Cloud - point measurements for self +poly (ethylene glycol) + water systems by viscometry and laser beam scattering methods", , Vol. , Num. , Page 0-0, August 2003,



- 169 Vahid Taghi Khani, Hamid Modarress, [en-name N/A], J. H.Vera, "The msa and the individual ionic activity coefficients", , Vol. , Num. 27, Page 0-0, June 2003,
- 170 Omid Moradi, Hamid Modarress, Mehdy Nowrozy, "The effects of concentration ,ph,and ionic strength on lysozyme adsorption onto AA and HEMA contact lenses", , Vol. , Num. 12, Page 0-0, June 2003,
- 171 Hamid Modarress, Morteza Lotfi Kian, "Modification and application of a non-primitive mean spherical approximation model for simple aqueous electrolyte solutions", , Vol. , Num. 209, Page 0-0, June 2003,
- 172 Elham Keshmirizadeh, Hamid Modarress, Ali Eliassi, [en-name N/A], "A new theory for polymer/solvent mixtures based on hard-sphere limit", , Vol. , Num. , Page 0-0, June 2003,
- 173 Mohammad Nader Lotfolahi, Hamid Modarress, [en-name N/A], "Effect of solute size on the chemical potential in infinite dilution supercritical solutions solubility calculation in superritical extraction : an integral equation approach", , Vol. , Num. , Page 0-0, June 2003,
- 174 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "A cubic hard core equation of state", , Vol. , Num. , Page 0-0, April 2003,
- 175 [en-name N/A], Hamid Modarress, [en-name N/A], "Thermodynamic investigation on self-association of alcohols in carbon tetrachloride by FT-NMR spectroscopy", , Vol. , Num. 107, Page 0-0, March 2003,
- 176 [en-name N/A], Hamid Modarress, "Excess thermodynamic properties calculations for alcohols in inert solvents based on fourier transform infrared spectroscopy measurements", , Vol. , Num. , Page 0-0, January 2003,
- 177 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "New equation of stste is accurate for VLE,PVT calculations of oil mixtures", , Vol. , Num. , Page 0-0, December 2002,
- 178 Azam Khavaninzadeh, Hamid Modarress, Vahid Taghi Khani, [en-name N/A], "Activity coefficients of electrolyte and amino acid in the systems(water plus potassium chloride plus DL-valine)at T=298.15Kand (water plus sodium chloride plus L-valine) at T=308.15K", , Vol. , Num. , Page 0-0, August 2002,
- 179 Ali Eliassi, Hamid Modarress, Hamidreza Nikomancsh, "Thermodynamic studies of binary and ternary aqueous polymer solution", , Vol. , Num. , Page 0-0, June 2002,
- 180 Ali Eliassi, Hamid Modarress, [en-name N/A], "The effect of electerolytes on the cloud point of (poly ethylene glycol ) a queous solution", , Vol. , Num. , Page 0-0, June 2002,
- 181 Vahid Taghi Khani, Hamid Modarress, J. H.Vera, "Activity coefficiens of individual ions", , Vol. , Num. , Page 0-0, April 2002,
- 182 Gholaamreza Vakilinezhaad, Hamid Modarress, [en-name N/A], "Calculation of the size and energy parameters of N-methylpyrrolidone", , Vol. , Num. , Page 0-0, March 2002,
- 183 Mohammad Nader Lotfolahi, Hamid Modarress, "Solving integral equations for binary and ternary systems", , Vol. , Num. 6, Page 0-0, February 2002,
- 184 Gholaamreza Vakilinezhaad, Hamid Modarress, [en-name N/A], "Modification of the van laar activity coefficient model", , Vol. , Num. 1, Page 0-0, December 2001,
- 185 Kamran Akbarzadeh, Hamid Modarress, [en-name N/A], "An accurate expression for the second virial coefficient of aggregate fluids", , Vol. , Num. 1, Page 0-0, December 2001,
- 186 Mohammad Nader Lotfolahi, Hamid Modarress, [en-name N/A], "Application of integral equation joined with the chain association theory to study molecular a ssociation in sub-and supercritical water", , Vol. , Num. 1, Page 0-0, October 2001,
- 187 Hamid Modarress, Gholaamreza Vakilinezhaad, "Continuous thermodynamics of petroleum fluids fractions", , Vol. , Num. , Page 0-0, September 2001,
- 188 Ali Eliassi, Hamid Modarress, "Water activities in binary and ternary aqueous systems of poly(ethylene glycol) poly(propylene glycol)and dextran", , Vol. , Num. , Page 0-0, July 2001,
- 189 Mahnaz Kamali Ardakani, Hamid Modarress, Vahid Taghi Khani, [en-name N/A], "Activity coefficients of glycine in aqueous electrolyte solutions: experimental data for (H2O+KCl plus glycine) at T=298.15 K and (H2O+NaCl plus glycine) at T=308.15K", , Vol. , Num. 33, Page 0-0, July 2001,

- 190 Hamid Modarress, Masood Teimori, "A theoretical and experimental heat of mixing study for polymer-polymer mixtures", , Vol. , Num. 5, Page 0-0, May 2001,
- 191 [en-name N/A], Hamid Modarress, Ali Mansouri, "A new theoretical approach to the hydrogen\_bonded fluids based on the conformal solution concept", , Vol. , Num. , Page 0-0, April 2001,
- 192 Ali Reza Fazleali, Hamid Modarress, [en-name N/A], "Phase behavior prediction of complex petroleum fluids", , Vol. , Num. 179, Page 0-0, March 2001,
- 193 Hamid Modarress, Mohammad Nader Lotfolahi, "Integral equation study of the residual chemical potential in infinite\_dilution supercritical solutions", , Vol. , Num. 73, Page 0-0, December 2000,
- 194 Gholaamreza Vakilinezhaad, Hamid Modarress, [en-name N/A], "Thermodynamic modeling and experimental studies of dearomatization process from a complex petroleum fraction", , Vol. , Num. 35, Page 0-0, December 2000,
- 195 Masood Teimori, Hamid Modarress, [en-name N/A], "Generalized flory\_huggins model for heat\_of\_mixing and phase\_behavior calculations of polymer\_polymer mixtures", , Vol. , Num. 78, Page 0-0, November 2000,
- 196 Mohammad Reza Eslami, Hamid Modarress, "A wellbore model for field\_scale modeling of asphaltene plugging", , Vol. , Num. 26, Page 0-0, May 2000,
- 197 Vahid Taghi Khani, Hamid Modarress, "Measurement and correlation of the individual ionic activity coefficients of aqueous electrolyte solutions of kf,naf and KBR", , Vol. , Num. 78, Page 0-0, February 2000,
- 198 Vahid Taghi Khani, Hamid Modarress, [en-name N/A], "Application of the MSA to the modeling of the activity coefficients of individual ions", , Vol. , Num. 167, Page 0-0, January 2000,
- 199 Hamid Modarress, Ebrahim Ahmadnia, [en-name N/A], "Improvement on lennard\_jones\_devonshire theory for predicting liquid\_solid phase transition", , Vol. , Num. 22, Page 0-0, December 1999,
- 200 Hamid Modarress, Vahid Taghi Khani, "Individual anionic activity coefficients in aqueous electrolyte solution of licl and libr", , Vol. , Num. , Page 0-0, December 1999,
- 201 Gholaamreza Vakilinezhaad, Hamid Modarress, [en-name N/A], "Solvent extraction of aromatic components from LUBE\_OIL cut by N\_methylpyrrolidone(NMP)", , Vol. , Num. 22, Page 0-0, October 1999,
- 202 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "Measurement of Activity of Water in Aqueous Poly (ethylene Glycol) Solutions (effect of excess volume on the flory\_huggins chi-parameter)", , Vol. , Num. , Page 0-0, February 1999,
- 203 Mohsen Mohsen Nia, Hamid Modarress, [en-name N/A], "A new mixing rule for mixtures of hard\_spheres", , Vol. , Num. , Page 0-0, December 1998,
- 204 Vahid Taghi Khani, Hamid Modarress, "A new model for predicting activity and osmotic coefficients of electrolyte solutions", , Vol. , Num. , Page 0-0, December 1998,
- 205 Hamid Modarress, Ali Eliassi, "150328-150298 Densities of poly (ethylene glycol) +water mixtures in the 298015-32815 K temperature range", , Vol. , Num. , Page 0-0, October 1998,
- 206 Forough Firouzi, Hamid Modarress, [en-name N/A], "Predicting liquid\_liquid transitions polymer solution using the gcl equation of state", , Vol. , Num. 34, Page 0-0, October 1998,
- 207 Masood Teimori, Hamid Modarress, [en-name N/A], "A theoretical study of free volume effect on phase stability of hydrogen bonded polymer mixtures by lattice fluid theory", , Vol. , Num. 7, Page 0-0, January 1998,
- 208 [en-name N/A], [en-name N/A], Hamid Modarress, "A generalized chemical associating theory of mixtures", , Vol. , Num. , Page 0-0, January 1998,
- 209 Masood Teimori, Hamid Modarress, [en-name N/A], "Prediction of phase stability of hydrogen bonded polymer mixtures by lattice fluid theory approach", , Vol. , Num. 3, Page 0-0, January 1998,
- 210 Hamid Modarress, Ali Eliassi, "densities of poly(ethylene glycol) +water mixtures in the 298.15-328.15 K temperature range", , Vol. , Num. 43, Page 0-0, January 1998,

- 211 Ali Eliassi, Hamid Modarress, "Liquid\_liquid equilibria for polymer\_solvent mixtures using improved van der waals equation of state", , Vol. , Num. 2, Page 0-0, January 1997,
- 212 Payman Pourgheysar, [en-name N/A], Hamid Modarress, "A single\_theory approach to the prediction of solid\_liquid and liquid\_vaporphase transitions", , Vol. , Num. 105, Page 0-0, January 1996,
- 213 [en-name N/A], Hamid Modarress, [en-name N/A], "The concentrations of electrolytes in charged cylindrical pores:the hydrostatic hypernetted chain/mean spherical approximation roximation", , Vol. , Num. 104, Page 0-0, January 1996,
- 214 Ali Eliassi, Hamid Modarress, "Measurement of activity of water in aqueous poly(ethylene glycol)solutions(effect of excess volume on the flory\_huggins x\_parameter)", , Vol. , Num. 44, Page 0-0, January 1994,
- 215 Hamid Modarress, Mohammad Edrisi, "NMR measur ments of stability constants for complexes of cavbon tetra chloride and some aromatic compounds", *Microchemical Journal*, Vol. , Num. 22, Page 0-0, May 1977,

## مقالات کنفرانس

### داده های ثبت شده در پورتال

- 1 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "Effect of ENR as a compatibilizer on rubber droplet size in bio-based PLA/NR blend ", 13th International Seminar on Polymer Science and Technology (ispst), November 2018
- 2 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "Effect of compatibilizer on rheological behavior of bio-based PLA/NR blend ", 3rd national annual meeting on rheology, July 2018
- 3 Sepideh Amjad Iranagh, Hamid Modarress, "Effects of Quercetin, an anticancer drug, on three types of lipid membranes: Amolecular dynamics simulation study ", 17 th /iranian Physical chemistry Conference, November 2014
- 4 Sepideh Amjad Iranagh, Hamid Modarress, "Effect of luteolin and kampferol anticancer drugs in DPPC lipid membrane : Molecular Dynamics Simulation in Nanoscale ", 5th international conference on nanostructures, March 2014
- 5 Sepideh Amjad Iranagh, Hamid Modarress, Sepideh Khoe, "A novel aminoacid based dendrimer with superparamagnetic iron oxide nanoparticles core for targeting drug delivery ", 5th International conference on nanostructures, March 2014
- 6 Sepideh Amjad Iranagh, Hamid Modarress, Sepideh Khoe, "synthesis of semi aminoacid dendrimer with iron nanoparticle core for anti cancer drug delivery ", 1th National Congress on application of biomaterial in regenerative medicine, February 2014
- 7 Sepideh Amjad Iranagh, Hamid Modarress, "NanoscaleMolecular Dynamics Simulation of Anticancer Drugs, Quercetin and Apigenin in a Lipid Bilayer Membrane ", The 16 th iranian chemistry congress, September 2013
- 8 Sepideh Amjad Iranagh, Hamid Modarress, "Molecular Docking of Poly L-Lysine Dendrimer with Quercetin In Nanoscale ", The 16 th iranian chemistry congress, September 2013
- 9 Safoora Karimi, Sadaf Soleimani Savadkouhi, Mitra Dadvar, Hamid Modarress, Ehsan Askari Mahvelati, Bahram Dabir, "Impact of Blood Rheology for Bulk Flow in HemodynamicModels of a Carotid Bifurcation ", International Conference onMechanical Engineering andAdvanced Technolog, October 2012
- 10 Abbas Yousefpour Shirsavar, Paro Haghighi, Hamid Modarress, Mohsen Mohsennia, "nano scale molecular simulation of nonsteroidal anti-inflammatory drugs ", 4th international congress on nanoscience and nanotwchnology, September 2012
- 11 Parto Haghighi, Abbas Yousefpour Shirsavar, Hamid Modarress, Mohsen Mohsennia, "molecular dynamics simulation of local anesthetic nano drug potential of mean force calculation and protein binding ", 4th international congress on nanoscience and nanotechnology, September 2012
- 12 Safoora Karimi, Mitra Dadvar, Hamid Modarress, Bahram Dabir, "The Impact of Artery Diameter and Non-Newtonian Blood Behavior on Flow over a Stenotic Artery ", 20th Annual International Iranian Mechanical Engineering Conference, May 2012

- 13 Abdollah Golchoobi Firoozjaie, Hamid Modarress, "stability investigation of charged colloidal particles using monte carlo simulation ", 13th national iranian chemical engineering congress and 1st international regional chemical and petroleum engineering conference, October 2010
- 14 Sepideh Amjad Iranagh, Hamid Modarress, "preparation of Ni-P coating and survey effect of heat treatment on the corrosion resistance and micro-hardness of coating ", 13th national iranian chemical engineering congress and 1st international regional chemical and petroleum engineering conference, October 2010
- 15 Sepideh Amjad Iranagh, Hamid Modarress, "effect of heat treatment on the corrosion resistance and hardness of Ni-P-TiO<sub>2</sub> electroless composite coatings ", , April 2010
- 16 Mahmoud Rahmati, Hamid Modarress, "Grand canonical monte carlo simulation of hydrogen physisorption in zeolites RHO, FAU and TSC ", Iran International Zeolite Conference, 2008, Tehran, Iran, April 2008
- 17 Mahdi Zaeefi Yamchi, Hamid Modarress, Majid Abdouss, "Modeling and prediction of activity coefficient ratio of electrolytes in aqueous electrolyte solution containing amino acids using genetic programming ", , October 2007
- 18 [en-name N/A], Hamid Modarress, Bahram Nasernejad, "Structural and partitioning studies of bovine serum albumin in mixture of poly ethelene glycol + k<sub>2</sub>hpo<sub>4</sub>+h<sub>2</sub>o ", , March 2006
- 19 Hamid Modarress, Mohammadreza Dehghani Sanij, "modified pitzer equation using in modeling of mean activity coefficients of aqueous single and mixed electrolyte solution containing an amino acid ", , March 2005
- 20 Hamid Modarress, "2 - an equation of state for electrolyte solutions by combination of simplified MSA and NATL ", , March 2005
- 21 Hamid Modarress, Mohammadreza Dehghani Sanij, "1 -prediction of activity coefficient of electrolyte in the aqueous electrolyte solution containing water +amino acid +KCL nacl or nabr using neural network ", , March 2005
- 22 Hamid Modarress, Reza Tahery, "Surface ienslm of bunry solutrsn ", , October 2004
- 23 Mansooreh Soleimani, Hamid Modarress, "Modification of stokes einstein equation for diffusivities in diluete polymer solutions ", , October 2003
- 24 Hamid Modarress, "Adsorption of lysozyme on hydro gels surface ", , October 2002
- 25 Behzad Khodakarami, Hamid Modarress, Mohammad Nader Lotfolahi, "Study of the High-Pressure Vapor-Liquid Equilibria for Strongly Non-ideal Binary Mxtures ", , October 2002
- 26 Behzad Khodakarami, Hamid Modarress, "Modeling of Solubility of Heavy Aromatics in Supercritical CO<sub>2</sub> Using Modified Horun-Vidal Second Order Mixing Rule ", , October 2002
- 27 Behzad Khodakarami, Hamid Modarress, "Hirgh-Pressure Modeling of the Vapor-Liquid Equilibrium for Ternary System of Propane-Ethanol-Water at near critical conditions ", , October 2002
- 28 Behzad Khodakarami, Mohammad Nader Lotfolahi, Hamid Modarress, "A New Composition Dependent Predictive Model for Binary Interaction Factors Needed in VLE of Binary Mixtures ", , October 2002
- 29 Nader Taheri Qazvini, Naser Mohammadi, Nader Baghery Aghababaey, Azam Jalali Arani, Hamid Modarress, "Rubber Wear : An Universal View ", , July 2002
- 30 Nader Taheri Qazvini, Naser Mohammadi, Nader Baghery Aghababaey, Azam Jalali Arani, Hamid Modarress, "Heat build up in rubber Vulcanizates : Single Compoent Systems. ", , July 2002
- 31 Ali Eliassi, Hamid Modarress, Mahdi Nekohi, "thermodynamic studies of binary and ternary aqueous polymer solutions ", , March 2000
- 32 Hamid Modarress, Ali Eliassi, Gholam Ali Monsori, "the effect of electrolytes on cloud point of aqueous solutions of poly ethylen glycol ", , March 2000
- 33 Vahid Taghi Khani, Hamid Modarress, "the MSA and the individual ionic activity cofficient ", , March 2000
- 34 Ali Reza Fazleali, Hamid Modarress, "phase equilibria calculation of complex petroleum fluids for asphaltenes deposition modeling ", , March 2000

- 35 Mohammad Nader Lotfolahi, Hamid Modarress, "part II: Application of integral equations to calculate solubility in supercritical extraction " , , March 2000
- 36 Mohammad Nader Lotfolahi, Hamid Modarress, "part I: effects of solute size on the chemical potential in infinite dilution supercritical solutions using integral equations " , , March 2000
- 37 Hamid Modarress, Hemayat Shekari, "new models based on FT NMR studies for molecular complexes of hydrogen bonded mixtures of alcohols " , , March 2000
- 38 Hamid Modarress, Kamran Akbarzadeh, [en-name N/A], "mechanisms of molecular aggregation in fluids based on the theory of fractals and partial segregation theory " , , March 2000
- 39 Hamid Modarress, Vahid Taghi Khani, "activity coefficients individual ions " , , March 2000
- 40 Hamid Modarress, Reza Tahery, "activity coefficient calculations for binary systems by kirckwood - buff theory " , , March 2000
- 41 Mostafa Teimuri, Hamid Modarress, "a theoretical and experimental heat of mixing study of polymer mixtures " , , March 2000
- 42 Hamid Modarress, Mostafa Teimuri, "a theoretical and experimental study of the compatibility of binary polymer mixtures by analog dilatometry method " , , March 2000
- 43 Masood Teimori, Hamid Modarress, "a temperature composition and molecular weight dependent binary interaction parameter for polymer solutions and mixtures " , , March 2000
- 44 Mostafa Teimuri, Hamid Modarress, "a new model for calculating the critical solution temperatures of high molecular weight polymer mixtures " , , March 2000
- 45 Hamid Modarress, "activity measurements by vapour pressure osmometry for aqueous solution of polyethylene glycole at different temperatures " , , January 1998
- 46 Hamid Modarress, "a model based on kirwood buff theory for predicting activity and osmotic co efficients of electrolyte " , , January 1998
- 47 Hamid Modarress, "correlation of activity coefficients for aqueous electrolytes using kiwood buff theory of liquids " , , January 1998
- 48 Hamid Modarress, "determination of radial distribution function of study molecular association in water " , , January 1998
- 49 Hamid Modarress, Esmail Jamshidi Meidandar, Shokoufeh Hakim, "Study of the spreading of surfactants on the liquid surfaces and modeling their behavior " , , January 1997
- 50 Hamid Modarress, Forough Firouzi, "Facilliation of LLE studies of polymer solvent system by group contribution methods . " , , March 1996
- 51 Mohsen Mohsen Nia, Hamid Modarress, "partial segregation theory of fluids " , , March 1994
- 52 Mohsen Mohsen Nia, Hamid Modarress, "a new accurate and simple equation of state for hydrocarbons and other compounds " , , January 1994