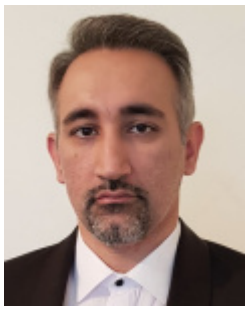
Sahand University of Technology



Seyed Morteza Ghasemi

Associate Professor

College: Faculty of Polymer Engineering

Education

Degree	Graduated in	Major	University
BSc	2006	Polymer Engineering-Polymer Industries	Amirkabir University of Technology (Tehran Polytechnique)
MSc	2009	Polymer Engineering-Polymer Industries	Amirkabir University of Technology (Tehran Polytechnique)
Doctoral	2014	Polymer Engineering-Polymer Industries	Amirkabir University of Technology (Tehran Polytechnique)

Work Experience

- Dean of the Faculty of Polymer Engineering, 2022 - 2024
- Deputy Dean of the Faculty of Polymer Engineering, 2020 - 2022
- Director of graduate studies at the Faculty of Polymer Engineering, 2019 - 2020

Subjects Taught

- Physical Chemistry of Polymers
- Advanced Polymer Physics and Chemistry
- Thermodynamics of Polymer Solutions and Blends
- Polymer Blends
- Polymer Compounding
- Characterization and Identification of Polymers
- Fiber Engineering
- Organic Chemistry
- General Chemistry
- Measurement of Engineering Quantities (Instrumentation & measurement methods)

Papers in Conferences

1. Ghasemi S. M., Mohammadi N،The Prediction of Membrane Structure Based on Its Solution Apparent Coagulation Time،۱۳th Iranian National Chemical Engineering Congress& ۱st International Regional Chemical and Petroleum Engineering،Kermanshah, Razi University،۲۰۱۰.
2. آرزو نقیلو، سید مرتضی قاسمی، غزل لشنی،تهیه نانوکرات از کوپلیمر قطعه‌ای ستاره‌ای سنتزشده به روش پلیمریزاسیون انتقال زنجیر افزایشی-جدایشی برگشت‌پذیر،هفتمین همایش ملی پلیمر ایران (همپا ۱۴۰۲)،گرگان، دانشگاه گلستان،۱۴۰۲.
3. توحید جلیلی، سید مرتضی قاسمی،اثر نوع حلال بر ساختار آمیزه غشایی پلی (استایرن-کو-اکریلونیتریل)/ پلی (وینیل کلراید)،هفتمین همایش ملی پلیمر ایران (همپا ۱۴۰۲)،گرگان، دانشگاه گلستان،۱۴۰۲.
4. بیتا علی اشرفی دیزجی، توحید جلیلی، سید مرتضی قاسمی،بهبود عملکرد غشاء پلی (وینیل کلراید) با آمیزه‌سازی،هفتمین همایش ملی پلیمر ایران (همپا ۱۴۰۲)،گرگان، دانشگاه گلستان،۱۴۰۲.
5. سولماز موسی پور اندریان، سید مرتضی قاسمی، فروغ جعفری،نقش قدرت برهمکنش در ایجاد غشاء ایزومتخلخل از کوپلیمر قطعه ای با وزن مولکولی پایین،ششمین همایش ملی پلیمر ایران (همپا ۱۴۰۰)،تبریز، دانشگاه صنعتی سهند،۱۴۰۰.
6. امیر خلقی، سید مرتضی قاسمی،غشاءهای تهیه شده از سامانه پلی استایرن/تتراهیدروفوران/غیرحلال به روش ریخته گری خشک و رسوب غوطه وری،ششمین همایش ملی پلیمر ایران (همپا ۱۴۰۰)،تبریز، دانشگاه صنعتی سهند،۱۴۰۰.
7. توحید جلیلی، سید مرتضی قاسمی،تنظیم عملکرد غشائی پلی (استایرن-کو-اکریلونیتریل) با آمیزه سازی،ششمین همایش ملی پلیمر ایران (همپا ۱۴۰۰)،تبریز، دانشگاه صنعتی سهند،۱۴۰۰.
8. سید مرتضی قاسمی، ناصر محمدی، محسن سلیمانی خبیری، شهرام ارباب،اثر برش بر حفره زائی در فرآیند وارونگی فازی محلولهای پلی (متیل متاکریلات) حاوی مقادیر مختلف ضد حلال،دوازدهمین کنگره ملی مهندسی شیمی ایران ICHEC۱۲،۱۳۸۷،تبریز، دانشگاه صنعتی سهند.
9. سید مرتضی قاسمی، گیتی میر محمد صادقی،ارائه رابطه کمی بین شاخص جریان مذاب مخلوطهای PE/PE wax با وزن مولکولی و ترکیب درصد اجزاء،یازدهمین کنگره ملی مهندسی شیمی ایران ICHEC۱۱،تهران، دانشگاه تربیت مدرس،۱۳۸۵.
10. Foroutani K., Ghasemi S. M ,Stabilizing Organized Surface Structures in Casting Solutions of Ionic Block Copolymer Membranes ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,Isfahan, Isfahan University of Technology ,2022.
11. Hassanzadeh, A., Ghasemi S. M ,Preparation of tosyl cellulose acetate nanoparticles via nanoprecipitation ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,Isfahan, Isfahan University of Technology ,2022.
12. Ghasemi S. M., Hashemtamar H., Naghiloo A ,Preparation of spherical micelles from diblock terpolymer based on poly(acrylic acid) in organic solvent ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,Isfahan, Isfahan University of Technology ,2022.
13. Foroutani K., Ghasemi S. M., Pourabbas B ,Highly Ordered Isoporous Membranes Prepared from Strongly Segregated Diblock Copolymer via SNIPS ,14th International Seminar on Polymer Science and Technology (ISPST 2020) ,Tehran, Tarbiat Modares University ,2020.
14. Azizhemati N., Ghasemi S. M., Garmabi H ,Microstructure Evaluation of Polypropylene/Graphene Nanocomposite Foam ,11th International Seminar on Polymer Science and Technology (ISPST 2014) ,Tehran, Iran Polymer and Petrochemical Institute ,2014.
15. Ghasemi S. M., Mohammadi N ,The apparent coagulation time as a tool to predict immersion precipitated polymeric membrane characteristics ,The 8th International Chemical Engineering Congress & Exhibition (IChEC 2014) ,Kish Island ,2014.
16. Jalali Dil E., Ghafarian S.R., Ghasemi S.M., Haji Abdolrasouli M ,Optimization of fibres orientation in a polymeric composite laminate ,International Chemical Engineering Congress -5th (ICHEC 2008) ,Islamic Azad University Kish Branch ,2008.
17. Seifollahi Bazarjani M., Mohammadi N., Daghighi M., Ghasemi S. M ,Prediction of Membrane Morphology and Performance: A Phenomenological Approach ,ISPST-8th تهران، دانشگاه صنعتی شریف, 2007,.
18. Ghasemi S. M., Mir Mohamad Sadeghi G ,General and More Precise Relationship between Molecular Weight, Blend Ratio, and Melt Index of Binary Polyethylene Blends ,PPS (Polymer Processing Society)-2006 ,South Africa ,2006.

Papers in Journals

1. Ghasemi S. M., Kholghi A،Polystyrene Porous Films Prepared by Non-solvent Induced Phase Separation Process: Structure-Thermodynamic Parameters Relationship،Iran. J. Polym. Sci. Technol. (Persian)،۲۲ ۱۱ ۴۱۵،۲۰۲۱-۴۰۳ مجلد ۳۴،شماره صفحات.
2. Ghasemi S. M., Kholghi A., Azizhemati N,A physicochemical study on dry-cast porous poly (styrene-co-acrylonitrile) film,Journal of Polymer Research,Vol. 29,pp. 457,2022-11.
3. Ghasemi S. M., Kholghi A,Porous films prepared from poly (styrene-co-acrylonitrile)/dichloromethane system via evaporation induced phase separation: Structure - thermodynamic aspects,Progress in Organic Coatings,Vol. 168,pp. 106885,2022 07 01.
4. Foroutani K., Ghasemi S. M,How does Micro & Macro-Phase Separation of Block Copolymers Affect the Formation of Integral Asymmetric Isoporous Membranes? A Review on Effective Factors,Macromolecular Materials and Engineering,Vol. 307,pp. 2200084,2022 04 12.
5. Foroutani K., Ghasemi S. M., Pourabbas B,Ordered isoporous membranes from ionic diblock copolymers via SNIPS: Optimizing effective factors with a structural survey,Progress in Organic Coatings,Vol. 161,pp. 106554,2021 12 01.
6. Foroutani K., Ghasemi S. M., Pourabbas B,Molecular tailoring of polystyrene-block-poly (acrylic acid) block copolymer toward additive-free asymmetric isoporous membranes via SNIPS,Journal of Membrane Science,Vol. 623,pp. 119099,2021 04 01.
7. Ghasemi S. M., Besharati M,Ethyl cyanoacrylate ordered porous films prepared via in-situ polymerization and static breath figures process,Polymers for Advanced Technologies,Vol. 31,pp. 3104-3113,2020-12.
8. Ghasemi S. M., Alavifar S. S,The role of physicochemical properties in the nanoprecipitation of cellulose acetate,Carbohydrate Polymers,Vol. 230,pp. 115628,2020 02 15.
9. Ghasemi S. M., Mohammadi N,The Trend of Membrane Structure Evolution under Shear and/or Elongation Flow Fields of Immersion Precipitated Spun Tapes,Journal of Membrane Science,Vol. 460,pp. 185-198,2014 06 15.
10. Ghasemi S. M., Mohammadi N,The prediction of polymeric membrane characteristics prepared via nonsolvent induced phase separation by the apparent coagulation time,Polymer,Vol. 54,pp. 4675–4685,2013 08 02.
11. Seifollahi Bazarjani M., Mohammadi N., Ghasemi S. M,Ranking the key parameters of immersion precipitation process and modelling the resultant membrane structural evolution,Journal of Applied Polymer Science,Vol. 113,pp. 1529-1538,2009 04 14.
12. Ghasemi S. M., Mir Mohamad Sadeghi G,General and More Precise Relationships between Molecular Weight, Blend Ratio, and Melt Index of Binary Polyethylene Blends,Journal of Applied Polymer Science,Vol. 108,pp. 2988–2993,2008 02 27.

Thesis

1. Synthesis And Performance Evaluation Of PEBA/SSZ- 13 Mixed-Matrix Membrane in Separation of Carbon Dioxide from Methane
2. Preparation of membrane from block copolymer based on acrylic acid via SNIPS method
3. Preparation of membrane from acrylonitrile-based block copolymer by SNIPS method
4. Synthesis of star polymers by reversible addition-fragmentation chain transfer (RAFT) polymerization
5. Preparation of nanoparticles from cellulose derivatives via nanoprecipitation method
6. Preparation of regenerated cellulose-based membranes
7. Porous membrane films prepared from polystyrene based block copolymers
8. Preparation of poly(styrene-co-acrylonitrile) based membrane via nonsolvent induced phase separation (NIPS)
9. Synthesis of styrene-based block terpolymers prepared by reversible addition-fragmentation transfer

(RAFT) polymerization method
10. Study on microstructure and rheological properties of PMMA/SAN nanocopmposites based on carbon-fillers
11. Fabrication of Porous Films from Amphiphilic Block Copolymers Based on Polystyrene Synthesized by Controlled Radical Polymerization
12. Preparation of polystyrene membrane by dry casting method and investigation of its effective factors
13. Synthesis and nanostructuring of random copolymers prepared by reversible addition-fragmentation chain transfer (RAFT) polymerization
14. Synthesis and molecular nano-assembly of polystyrene-block-poly(acrylic acid)
15. Superhydrophobic surface fabricated from fatty acid salt / Nanoparticles
16. Preparation of carbon spheres from phenolic resins precursor
17. Fabrication of ordered nanostructured membrane from self-assembled block copolymers
18. Preparation of honeycomb films comprising orderly nano and micrometer pores via breath figure method
19. Study of factors affecting the size of cellulose acetate nanoparticle prepared via nanoprecipitation method