



# VAHID VATANPOUR SARGHEIN

## PROF.

Email : vatanpour@itu.edu.tr

Other Email : vahidvatanpoor@yahoo.com

### International Researcher IDs

ScholarID: qiw5DnIAAAJ

ORCID: 0000-0001-9420-1644

Publons / Web Of Science ResearcherID: AAU-6447-2020

ScopusID: 23390824100

Yoksis Researcher ID: 349351



### Learning Knowledge

Associate Degree  
2013 - 2017

Tehran University of Teacher Training, Chemistry, Applied Chemistry, Iran

Doctorate  
2009 - 2013

Razi University, Chemistry, Applied Chemistry, Iran

### Academic Titles / Tasks

Professor  
2021 - Continues

Istanbul Technical University, İnşaat, Çevre Mühendisliği

### Supported Projects

1. Vatanpour Sarghein V., Koyuncu İ., Nazırı Mehrabani S., Keskin B., Project Supported by Higher Education Institutions, Membranların imalatında ve modifikasiyonunda MAX Faz kullanımı, 2022 - 2023
2. Vatanpour Sarghein V., Company, Fabrication of 8040 Spiral Wound Reverse Osmosis Module for Brackish Water Desalination, 2014 - 2017

### Published journal articles indexed by SCI, SSCI, and AHCI

1. **Modification of PAN electrospun nanofiber membranes with g-C<sub>3</sub>N<sub>4</sub> nanotubes/carbon dots to enhance MBR performance**  
Yavuztürk Gülb., Orhun Teber O., Tuncay G., Pekgenç E., Arabi N., Hemmati-Eslamlu P., Habibi-Yangjeh A., Vatanpour Sarghein V., Koyuncu İ.  
Chemosphere, vol.349, 2024 (SCI-Expanded)

2. **Novel sulfur-containing 2,6-diamino pyridine-based polymer as an additive in polyethersulfone: An effective membrane for removal of mercury (II) ion and dye pollutants**  
Kamali M., Qotbi A., Haghani M., Vatanpour Sarghein V.  
Reactive and Functional Polymers, vol.193, 2023 (SCI-Expanded)
3. **Investigating the effects of polypropylene-TiO<sub>2</sub> loading on the performance of polysulfone/polyetherimide ultrafiltration membranes for azo dye removal: Experimental and molecular dynamics simulation**  
Benkhaya S., Lgaz H., Tang H., Altaee A., Haida S., Vatanpour Sarghein V., Xiao Y.  
Journal of Water Process Engineering, vol.56, 2023 (SCI-Expanded)
4. **Ti<sub>2</sub>NTx quasi-MXene modified polyamide thin film composite reverse osmosis membrane with effective desalination and antifouling performance**  
Vatanpour Sarghein V., Mahdiei S., Arefi-Oskoui S., Khataee A., Orooji Y.  
Chemosphere, vol.344, 2023 (SCI-Expanded)
5. **Carbon-based quantum dots in fabrication and modification of membranes: A review**  
Korkut S., Vatanpour Sarghein V., Koyuncu İ.  
Separation and Purification Technology, vol.326, 2023 (SCI-Expanded)
6. **MoS<sub>2</sub>-containing composite membranes for separation of environmental energy-relevant liquid and gas mixtures: A comprehensive review**  
Janjhi F. A., Chandio I., Janwery D., Memon A. A., Thebo K. H., Boczkaj G., Vatanpour Sarghein V., Castro-Muñoz R.  
Chemical Engineering Research and Design, vol.199, pp.327-347, 2023 (SCI-Expanded)
7. **Polyethylene-Supported Thin-Film Nanocomposite Reverse Osmosis Membranes via Oxygen Plasma Pretreatment Modification and Nanotitanium Dioxide Incorporation for Efficient As(V) Removal**  
Amiri S., Sheydaeı M., He T., Vatanpour Sarghein V.  
Industrial and Engineering Chemistry Research, vol.62, no.43, pp.17959-17973, 2023 (SCI-Expanded)
8. **Study of antifouling and decolorization effect in polyethersulfone membranes improved with dendrimer-modified metal-organic frameworks**  
Khosravi M. J., Hosseini S. M., Vatanpour Sarghein V., Heydari S.  
Journal of Applied Polymer Science, vol.140, no.39, 2023 (SCI-Expanded)
9. **Fabrication of two-dimensional biotite nanosheets from natural biotite clay as a potent antibacterial agent**  
Irani-nezhad M. H., Khataee A., Orooji Y., Vatanpour Sarghein V., Arefi-Oskoui S.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.674, 2023 (SCI-Expanded)
10. **Electrochemical-based processes for produced water and oily wastewater treatment: A review**  
Ghaffarian Khorram A., Fallah N., Nasernejad B., Afsham N., Esmaelzadeh M., Vatanpour Sarghein V.  
Chemosphere, vol.338, 2023 (SCI-Expanded)
11. **Advances in fabrication, physio-chemical properties, and sensing applications of non-metal boron nitride and boron carbon nitride-based nanomaterials**  
Sohrabi H., Arbabzadeh O., Falaki M., Vatanpour Sarghein V., Majidi M. R., Kudaibergenov N., Joo S. W., Khataee A.  
Surfaces and Interfaces, vol.41, 2023 (SCI-Expanded)
12. **Chlorine resistance property improvement of polyamide reverse osmosis membranes through cross-linking degree increment**  
Gholami S., Rezvani A., Vatanpour Sarghein V., Khoshravesh S. H., Llorens J., Engel E., Castaño O., Cortina J. L.  
Science of the Total Environment, vol.889, 2023 (SCI-Expanded)
13. **Dimensional effect of ZnO-g-C<sub>3</sub>N<sub>4</sub> heterostructures on hydrophilic and anti-fouling properties of the PVDF/PAN composite membrane: Dye rejection**  
Veisi P., Seyed Dorraji M. S., Vatanpour Sarghein V., Rasoulifard M. H.  
Journal of Environmental Chemical Engineering, vol.11, no.4, 2023 (SCI-Expanded)
14. **Single and binary heavy metal adsorption using alginic acid structure: Experimental and density functional theory investigations**  
Khajavian M., Kaviani S., Piyanzina I., Tayurskii D. A., Nedopekin O. V., Sillanpää M., Vatanpour Sarghein V.  
Journal of Water Process Engineering, vol.54, 2023 (SCI-Expanded)

15. **New dithiocarbamate-based polymer (DTCP) as an additive to improve microporous polysulfone membrane efficiency in lead and dye removal**  
Kamali M., Ebrahimi A., Vatanpour Sarghein V.  
Journal of Environmental Management, vol.339, 2023 (SCI-Expanded)
16. **Preparation and Performance of a Novel Photocatalytic Antibacterial Ag-Ag<sub>2</sub>C<sub>204</sub>-TiO<sub>2</sub>/PAMPS/PVDF-Based Membrane in an Immobilized Photocatalytic Membrane Reactor under Visible-Light Irradiation**  
Almaie S., Rasoulifard M. H., Vatanpour Sarghein V., Seyed Dorraji M. S.  
Industrial and Engineering Chemistry Research, vol.62, no.29, pp.11626-11645, 2023 (SCI-Expanded)
17. **CuCr NLDH-Graphene oxide blended polyvinyl chloride ultrafiltration membrane with improved permeability and antifouling behavior**  
Naziri Mehrabani S. A., Sadeghi Rad T., Vatanpour Sarghein V., Khataee A., Kaya M., Zeytuncu B., Koyuncu İ.  
Separation and Purification Technology, vol.317, 2023 (SCI-Expanded)
18. **Fabrication and modification of nanofiltration membranes by solution electrospinning technique: A review of influential factors and applications in water treatment**  
Behroozi A. H., Al-Shaeli M., Vatanpour Sarghein V.  
Desalination, vol.558, 2023 (SCI-Expanded)
19. **Adsorption and Photocatalytic Degradation of Fluoxetine Using TiO<sub>2</sub>-Supported-Clinoptilolite, NaX and MIL-101 (Fe) Metal Organic Framework**  
Rad L. R., Anbia M., Vatanpour Sarghein V.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.33, no.7, pp.2154-2171, 2023 (SCI-Expanded)
20. **Fe<sub>3</sub>O<sub>4</sub>@Gum Arabic modified polyvinyl chloride membranes to improve antifouling performance and separation efficiency of organic pollutants**  
Vatanpour Sarghein V., Paziresh S., Behroozi A. H., Karimi H., Esmaeili M. S., Parvaz S., Imanian Ghazanlou S., Maleki A.  
Chemosphere, vol.328, 2023 (SCI-Expanded)
21. **Polyoxometalate-based hybrid composites in multi-functional wastewater treatment applications**  
Recepoglu Y. K., Goren A. Y., Orooji Y., Vatanpour Sarghein V., Kudaibergenov N., Khataee A.  
Journal of Water Process Engineering, vol.53, 2023 (SCI-Expanded)
22. **Evaluating the ability of Iranian natural zeolite to remove lead from polluted groundwater in Fashafuye plain**  
Heidarian M., Nakhaei M., Vatanpour Sarghein V., Rezaei K.  
International Journal of Environmental Science and Technology, vol.20, no.6, pp.6747-6760, 2023 (SCI-Expanded)
23. **Fabrication and characterization of different braid-reinforced PVC hollow fiber membranes to use in membrane bioreactor for wastewater treatment**  
Keskin B., Eryıldız B., Paşaoğlu M. E., Türkmen T., Vatanpour Sarghein V., Koyuncu İ.  
Journal of Applied Polymer Science, vol.140, no.18, 2023 (SCI-Expanded)
24. **Antifouling thin-film nanocomposite NF membrane with polyvinyl alcohol-sodium alginate-graphene oxide nanocomposite hydrogel coated layer for As(III) removal**  
Amiri S., Vatanpour Sarghein V., He T.  
Chemosphere, vol.322, 2023 (SCI-Expanded)
25. **Insights into engineered graphitic carbon nitride quantum dots for hazardous contaminants degradation in wastewater**  
Goren A., Recepoglu Y. K., Vatanpour Sarghein V., Yoon Y., Khataee A.  
Environmental Research, vol.223, 2023 (SCI-Expanded)
26. **Evaluation of using clinoptilolite as a filter in drinking water wells for removal of lead (small-scale physical sand box model)**  
Heidarian M. H., Nakhaei M., Vatanpour Sarghein V., Rezaei K.  
Journal of Water Process Engineering, vol.52, 2023 (SCI-Expanded)
27. **The nanocomposites of N-doped graphene oxide decorated with La-doped Zn-Cu-Ni ferrite with lightweight and excellent absorption-dominant electromagnetic interference shielding performance**

- Rostami M., Maghami S., Vatanpour Sarghein V., Nikmanesh H.  
Journal of Materials Science: Materials in Electronics, vol.34, no.10, 2023 (SCI-Expanded)
28. **Preparation and characterization of polyvinyl chloride membranes and their fouling behavior in water purification**  
Eryildiz B., Keskin B., Paşaoğlu M. E., Türken T., Vatanpour Sarghein V., Koyuncu İ.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, no.7, 2023 (SCI-Expanded)
29. **Modified emulsion polyvinyl chloride membranes for enhanced antifouling and dye separation properties by introducing tungsten disulfide (WS<sub>2</sub>) nanosheets**  
Aqaei H., Irani-nezhad M. H., Khataee A., Vatanpour Sarghein V.  
Chemical Engineering Research and Design, vol.190, pp.312-332, 2023 (SCI-Expanded)
30. **Bi<sub>4</sub>O<sub>5</sub>I<sub>2</sub> nanosheets as a novel nanofiller for fabrication of antifouling polyethersulfone nanocomposite membranes**  
Vatanpour Sarghein V., Köse Mutlu B., Mutlu Salmanlı Ö., İlyasoğlu G., Asadzadeh-Khanegah S., Habibi-Yangjeh A., Koyuncu İ.  
Journal of Industrial and Engineering Chemistry, vol.117, pp.473-489, 2023 (SCI-Expanded)
31. **Fabrication of novel hydrophobic electrospun nanofiber membrane using polybenzoxazine for membrane distillation application**  
Mutlu Salmanlı Ö., Eryildiz B., Vatanpour Sarghein V., Deliballi Z., Kışkan B., Koyuncu İ.  
Desalination, vol.546, 2023 (SCI-Expanded)
32. **Modification of reinforced hollow fiber membranes with WO<sub>3</sub> nanosheets for treatment of textile wastewater by membrane bioreactor**  
Koyuncu İ., Eryildiz B., Kaya R., Karakus Y., Zakeri F., Khataee A., Vatanpour Sarghein V.  
Journal of Environmental Management, vol.326, 2023 (SCI-Expanded)
33. **PVA/TS-1 composite embedded thin-film nanocomposite reverse osmosis membrane with enhanced desalination performance and fouling resistance**  
Bakhodaye Dehghanpour S., Parvizian F., Vatanpour Sarghein V., Razavi M.  
Chemical Engineering Communications, vol.210, no.11, pp.1916-1939, 2023 (SCI-Expanded)
34. **Evaluation the feasibility of using clinoptilolite as a gravel pack in water wells for removal of lead from contaminated groundwater**  
Nakhaei M., Heidarian M. H., Vatanpour V., Rezaei K.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.2, pp.4653-4668, 2023 (SCI-Expanded)
35. **Zeolitic imidazolate framework (ZIF-8) modified cellulose acetate NF membranes for potential water treatment application**  
Vatanpour Sarghein V., Yüksekdağ A., Ağtaş M., Mehrabi M., Salehi E., Castro-Muñoz R., Koyuncu İ.  
Carbohydrate Polymers, vol.299, 2023 (SCI-Expanded)
36. **pH stimuli-responsive and fouling resistance PES membrane fabricated by using photochromic spiropyran and spironaphthoxazine nanofillers for pesticide removal**  
Gholami F., Zinadini S., Zinatizadeh A. A., Sanjabi S., Mahdavian A. R., Samari M., Vatanpour Sarghein V.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.34, no.1, pp.332-350, 2023 (SCI-Expanded)
37. **Polyurethane-based separation membranes: A review on fabrication techniques, applications, and future prospectives**  
Nasrollahi N., Yousefpoor M., Khataee A., Vatanpour Sarghein V.  
Journal of Industrial and Engineering Chemistry, vol.116, pp.99-119, 2022 (SCI-Expanded)
38. **Enhanced negative charge of polyamide thin-film nanocomposite reverse osmosis membrane modified with MIL-101(Cr)-Pyz-SO<sub>3</sub>H**  
Mehrabi M., Vatanpour Sarghein V., Teber O. O., Masteri-Farahani M., Mortazavi S., Abbasi A., Koyuncu İ.  
Journal of Membrane Science, vol.664, 2022 (SCI-Expanded)
39. **Permeability improvement of reverse osmosis membranes by addition of dimethyl sulfoxide in the interfacial polymerization media**  
Vatanpour V., Mahdiei S., Teber O. O., Koyuncu İ.  
REACTIVE & FUNCTIONAL POLYMERS, vol.181, 2022 (SCI-Expanded)

40. **Sulfonic acid functionalized dendrimer-grafted cellulose as a charge and hydrophilic modifier of cellulose acetate membranes in removal of inorganic and organic pollutants**  
Vatanpour Sarghem V., Mehrabi M., Masteri-Farahani M., Behroozi A. H., Niakan M., Koyuncu İ.  
Journal of Water Process Engineering, vol.50, 2022 (SCI-Expanded)
41. **Fabrication of antifouling two-dimensional MoS<sub>2</sub> layered PVDF membrane: Experimental and density functional theory calculation**  
Rostami M., Sabet D. J., Vatanpour V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.303, 2022 (SCI-Expanded)
42. **The role of CuO/TS-1, ZnO/TS-1, and Fe2O3/TS-1 on the desalination performance and antifouling properties of thin-film nanocomposite reverse osmosis membranes**  
Dehghanpour S. B., Parvizian F., Vatanpour V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.302, 2022 (SCI-Expanded)
43. **Ti2AlN MAX phase as a modifier of cellulose acetate membrane for improving antifouling and permeability properties**  
Mehrabani S. A. N., Keskin B., Arefi-Oskoui S., Koyuncu İ., Vatanpour Sarghem V., Orooji Y., Khataee A.  
CARBOHYDRATE POLYMERS, vol.298, 2022 (SCI-Expanded)
44. **Polyamidoamine dendrimers-Mil-125(Ti) MOF embedded polyethersulfone membrane for enhanced removal of heavy metal, antibiotic and dye from water**  
Khosravi M. J., Hosseini S. M., Vatanpour V.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.10, no.6, 2022 (SCI-Expanded)
45. **Development of braid reinforced hollow fiber membranes as both ultrafiltration and nanofiltration membranes: Effect of pore forming additive on structure and performance**  
Tuncay G., Türken T., Vatanpour Sarghem V., Koyuncu İ.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.44, 2022 (SCI-Expanded)
46. **Optimization of effective parameters in arsenite oxidation process with Cl<sub>2</sub>, H<sub>2</sub>O<sub>2</sub>, and O<sub>3</sub> using response surface methodology**  
Amiri S., Vatanpour V., He T.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.181, 2022 (SCI-Expanded)
47. **Volatile organic compounds (VOCs) removal by photocatalysts: A review**  
Almaie S., Vatanpour Sarghem V., Rasoulifard M. H., Koyuncu İ.  
Chemosphere, vol.306, 2022 (SCI-Expanded)
48. **Optimization of Coagulation-Flocculation Process in Efficient Arsenic Removal from Highly Contaminated Groundwater by Response Surface Methodology**  
Amiri S., Vatanpour Sarghem V., He T.  
MOLECULES, vol.27, no.22, 2022 (SCI-Expanded)
49. **Development of Ti2AlN MAX phase/cellulose acetate nanocomposite membrane for removal of dye, protein and lead ions**  
Keskin B., Mehrabani S. A. N., Arefi-Oskoui S., Vatanpour Sarghem V., Teber O. O., Khataee A., Orooji Y., Koyuncu İ.  
CARBOHYDRATE POLYMERS, vol.296, 2022 (SCI-Expanded)
50. **Application of g-C<sub>3</sub>N<sub>4</sub>/ZnO nanocomposites for fabrication of anti-fouling polymer membranes with dye and protein rejection superiority**  
Vatanpour Sarghem V., Mousavi Khadem S. S., Dehqan A., Pazresh S., Ganjali M. R., Mehrpooya M., Pourbasheer E., Badie A., Esmaeili A., Koyuncu İ., et al.  
Journal of Membrane Science, vol.660, 2022 (SCI-Expanded)
51. **Green solvents in polymeric membrane fabrication: A review**  
Naziri Mehrabani S. A., Vatanpour Sarghem V., Koyuncu İ.  
Separation and Purification Technology, vol.298, 2022 (SCI-Expanded)
52. **Novel negatively-charged amphiphilic copolymers of PVDF-g-PAMPS and PVDF-g-PAA to improve permeability and fouling resistance of PVDF UF membrane**  
Almaie S., Vatanpour Sarghem V., Rasoulifard M. H., Seyed Dorraji M. S.  
Reactive and Functional Polymers, vol.179, 2022 (SCI-Expanded)

53. **Removal of antibiotics from wastewaters by membrane technology: Limitations, successes, and future improvements**  
Nasrollahi N., Vatanpour V., Khataee A.  
Science of the Total Environment, vol.838, 2022 (SCI-Expanded)
54. **Nanomaterials in membrane bioreactors: Recent progresses, challenges, and potentials**  
Vatanpour Sarghein V., Ağtaş M., Abdelrahman A. M., Erşahin M. E., Özgün Erşahin H., Koyuncu İ.  
CHEMOSPHERE, vol.302, 2022 (SCI-Expanded)
55. **Surface modification of commercial reverse osmosis membranes using both hydrophilic polymer and graphene oxide to improve desalination efficiency**  
Majid H., Heidarzadeh N., Vatanpour Sarghein V., Dehqan A.  
Chemosphere, vol.302, 2022 (SCI-Expanded)
56. **Polylactic acid in the fabrication of separation membranes: A review**  
Vatanpour V., Dehqan A., Paziresh S., Zinadini S., Zinatizadeh A. A., Koyuncu İ.  
Separation and Purification Technology, vol.296, 2022 (SCI-Expanded)
57. **Enhancing the flux and salt rejection of thin-film composite nanofiltration membranes prepared on plasma-treated polyethylene using PVA/TS-1 composite**  
Dehghanpour S. B., Parvizian F., Vatanpour Sarghein V., He T.  
Reactive and Functional Polymers, vol.177, 2022 (SCI-Expanded)
58. **Electrospraying technique in fabrication of separation membranes: A review**  
Vatanpour Sarghein V., Köse Mutlu B., Koyuncu İ.  
DESALINATION, vol.533, 2022 (SCI-Expanded)
59. **Boron carbon nitride nanosheets in water and wastewater treatment: A critical review**  
Recepoglu Y. K., Goren A. Y., Vatanpour V., Yoon Y., Khataee A.  
Desalination, vol.533, 2022 (SCI-Expanded)
60. **Recent trends in application of nanoscale zero-valent metals and metal single atoms in membrane processes**  
Amiri S., Vatanpour V., Mansourpanah Y., Khataee A.  
Journal of Environmental Chemical Engineering, vol.10, no.3, 2022 (SCI-Expanded)
61. **Polyethylene separator supported thin-film composite forward osmosis membranes for concentrating lithium enriched brine**  
Sun N., Dou P., Zhai W., He H., Nghiem L. D., Vatanpour V., Zhang Y., Liu C., He T.  
WATER RESEARCH, vol.216, 2022 (SCI-Expanded)
62. **Modification of PVDF membranes by incorporation Fe<sub>3</sub>O<sub>4</sub>@Xanthan gum to improve anti-fouling, anti-bacterial, and separation performance**  
Koyuncu İ., Gul B., Esmaeili M. S., Pekgenç E., Teber O. O., Tuncay G., Karimi H., Parvaz S., Maleki A., Vatanpour V.  
Journal of Environmental Chemical Engineering, vol.10, no.3, 2022 (SCI-Expanded)
63. **Novel polymeric additives in the preparation and modification of polymeric membranes: A comprehensive review**  
Nasrollahi N., Ghalamchi L., Vatanpour V., Khataee A., Yousefpoor M.  
Journal of Industrial and Engineering Chemistry, vol.109, pp.100-124, 2022 (SCI-Expanded)
64. **Different metal-doped ZnS quantum dots photocatalysts for enhancing the permeability and antifouling performances of polysulfone membranes with and without UV irradiation**  
Vatanpour Sarghein V., Karatas O., Amiri S., Rajabi H. R., Koyuncu İ., Khataee A.  
CHEMOSPHERE, vol.294, 2022 (SCI-Expanded)
65. **Stabilize thin nanoparticle layer of zeolitic imidazole framework-8 (ZIF-8) on different PVDF substrates by contra-diffusion method for high-efficiency ultrafiltration application**  
Esmaeili M., Khorshidi S., Vatanpour V.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.109, pp.189-201, 2022 (SCI-Expanded)
66. **Functionalization of PEG-AgNPs Hybrid Material to Alleviate Biofouling Tendency of Polyethersulfone Membrane**  
Fahrina A., Arahman N., Aprilia S., Bilad M. R., Silmina S., Sari W. P., Sari I. M., Gunawan P., Paşaoğlu M. E., Vatanpour

- Sarghein V., et al.  
POLYMERS, vol.14, no.9, 2022 (SCI-Expanded)
67. **Novel infinite coordination polymer (ICP) modified thin-film polyamide nanocomposite membranes for simultaneous enhancement of antifouling and chlorine-resistance performance**  
Vatanpour V., Iranpour Boroujeni N., Paşaoğlu M. E., Mahmoodi G., Mohammadikish M., Kazemi-Andalib F., Koyuncu İ.  
Journal of Membrane Science, vol.647, 2022 (SCI-Expanded)
68. **High-performance functionalized graphene oxide reinforced hyperbranched polymer nanocomposites for catalytic hydrolysis of a chiral ester in water**  
Farmanbordar-Ghadikolaei N., Kowsari E., Taromi F. A., Vatanpour V., Abdollahi H.  
REACTIVE & FUNCTIONAL POLYMERS, vol.173, 2022 (SCI-Expanded)
69. **Polysaccharides in fabrication of membranes: A review**  
Vatanpour V., Yavuztürk Gülb, Zeytuncu B., Korkut S., İlyasoğlu G., Türken T., Badawi M., Koyuncu İ., Saeb M. R.  
CARBOHYDRATE POLYMERS, vol.281, 2022 (SCI-Expanded)
70. **Fabrication and performance of polysulfone/H<sub>2</sub>O<sub>2</sub>-g-C<sub>3</sub>N<sub>4</sub> mixed matrix membrane in a photocatalytic membrane reactor under visible light irradiation for removal of natural organic matter**  
Salehian S., Heydari H., Khansanami M., Vatanpour V., Mousavi A.  
Separation and Purification Technology, vol.285, 2022 (SCI-Expanded)
71. **Hyperbranched polyethylenimine functionalized silica/polysulfone nanocomposite membranes for water purification**  
Vatanpour V., Jouyandeh M., Akhi H., Khadem S. S. M., Ganjali M. R., Moradi H., Mirsadeghi S., Badiei A., Esmaeili A., Rabiee N., et al.  
Chemosphere, vol.290, 2022 (SCI-Expanded)
72. **TiO<sub>2</sub>/CDs modified thin-film nanocomposite polyamide membrane for simultaneous enhancement of antifouling and chlorine-resistance performance**  
Vatanpour Sarghein V., Paziresh S., Mehrabani S. A. N., Feizpoor S., Habibi-Yangjeh A., Koyuncu İ.  
DESALINATION, vol.525, 2022 (SCI-Expanded)
73. **Highly antifouling polymer-nanoparticle-nanoparticle/polymer hybrid membranes**  
Vatanpour V., Jouyandeh M., Khadem S. S. M., Paziresh S., Dehqan A., Ganjali M. R., Moradi H., Mirsadeghi S., Badiei A., Munir M. T., et al.  
SCIENCE OF THE TOTAL ENVIRONMENT, vol.810, 2022 (SCI-Expanded)
74. **Performance improvement of PES membrane decorated by Mil-125(Ti)/chitosan nanocomposite for removal of organic pollutants and heavy metal**  
Khosravi M. J., Hosseini S. M., Vatanpour V.  
CHEMOSPHERE, vol.290, 2022 (SCI-Expanded)
75. **MoS<sub>2</sub>/N-TiO<sub>2</sub>/Ti mesh plate for visible-light photocatalytic ozonation of naproxen and industrial wastewater: comparative studies and artificial neural network modeling**  
Sheydaei M., Haseli A., Ayoubi-Feiz B., Vatanpour V.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.15, pp.22454-22468, 2022 (SCI-Expanded)
76. **Biocatalytic membranes in anti-fouling and emerging pollutant degradation applications: Current state and perspectives**  
Pekgenç E., Yavuztürk Gülb, Vatanpour V., Koyuncu İ.  
Separation and Purification Technology, vol.282, 2022 (SCI-Expanded)
77. **Improving antifouling property of alumina microfiltration membranes by using atomic layer deposition technique for produced water treatment**  
Mahmoodi G., Ronte A., Dangwal S., Wagle P., Echeverria E., Sengupta B., Vatanpour V., McIlroy D. N., Ramsey J. D., Kim S.  
DESALINATION, vol.523, 2022 (SCI-Expanded)
78. **Investigation of boron nitride/silver/graphene oxide nanocomposite on separation and antibacterial improvement of polyethersulfone membranes in wastewater treatment**

- Vatanpour V., Keskin B., Naziri Mehrabani S. A., Karimi H., Arabi N., Behroozi A. H., Shokrollahi-far A., Yavuzturk Gul B., Koyuncu I.  
Journal of Environmental Chemical Engineering, vol.10, no.1, 2022 (SCI-Expanded)
79. **Impact of dithiocarbamate-based polymeric additives on the performance of polyethersulfone membrane for the treatment of arsenic contaminated waters**  
Vatanpour V., Shokouhifar E., Halimehjani A. Z., He T.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.158, pp.589-606, 2022 (SCI-Expanded)
80. **Chitin and derivative chitosan-based structures-Preparation strategies aided by deep eutectic solvents: A review**  
Khajavian M., Vatanpour Sarghein V., Castro-Munoz R., Boczkaj G.  
CARBOHYDRATE POLYMERS, vol.275, 2022 (SCI-Expanded)
81. **Investigation of using UV/H<sub>2</sub>O<sub>2</sub> pre-treatment process on filterability and fouling reduction of PVDF/TiO<sub>2</sub> nanocomposite ultrafiltration membrane**  
Vatanpour V., Hazrati M., Sheydae M., Dehqan A.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.170, 2022 (SCI-Expanded)
82. **Development of MoS<sub>2</sub>/O-MWCNTs/PES blended membrane for efficient removal of dyes, antibiotic, and protein**  
Arefi-Oskoui S., Khataee A., Behrouz S. J., Vatanpour Sarghein V., Gharamaleki S. H., Orooji Y., Safarpour M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.280, 2022 (SCI-Expanded)
83. **Mechanisms, diagnosis, and monitoring of biofouling in membrane processes: A review**  
Saffarimiandoab F., Yavuzturk Gul B., Tasdemir R. S., Mutlu B., Ilter S. E., Unal S., TUNABOYLU B., Menceloglu Y. Z., Vatanpour V., Koyuncu I.  
Desalination and Water Treatment, vol.247, pp.40-63, 2022 (SCI-Expanded)
84. **A melamine-based covalent organic framework nanomaterial as a nanofiller in polyethersulfone mixed matrix membranes to improve separation and antifouling performance**  
Vatanpour V., Paziresh S.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.1, 2022 (SCI-Expanded)
85. **Polybenzoxazines in fabrication of separation membranes: A review**  
Vatanpour V., Kişkan B., Zeytuncu Gökoğlu B., Koyuncu I.  
Separation and Purification Technology, vol.278, 2022 (SCI-Expanded)
86. **Polyvinyl chloride-based membranes: A review on fabrication techniques, applications and future perspectives**  
Safarpour M., Safikhani A., Vatanpour V.  
Separation and Purification Technology, vol.279, 2021 (SCI-Expanded)
87. **Preparation and modification of thin film composite membrane using a bulky dianhydride monomer**  
Rezania H., Vatanpour Sarghein V.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.47, 2021 (SCI-Expanded)
88. **New blend nanocomposite membranes based on PBI/sulfonated poly(ether keto imide sulfone) and functionalized quantum dot with improved fuel cell performance at high temperatures**  
Hooshayri K., Rezania H., Vatanpour V., Rastgoo-Deylami M., Rajabi H. R.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.15, pp.21274-21292, 2021 (SCI-Expanded)
89. **Modification of EPVC membranes by incorporating tungsten trioxide (WO<sub>3</sub>) nanosheets to improve antifouling and dye separation properties**  
Akhi H., Vatanpour Sarghein V., Zakeri F., Khataee A.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.104, pp.186-202, 2021 (SCI-Expanded)
90. **Membrane concentrate management for textile wastewater with thermally activated persulfate oxidation method**  
Yabalak E., Ozay Y., Vatanpour V., Dizge N.  
WATER AND ENVIRONMENT JOURNAL, vol.35, no.4, pp.1281-1292, 2021 (SCI-Expanded)
91. **Ethylenediamine-functionalized ZIF-8 for modification of chitosan-based membrane adsorbents: Batch adsorption and molecular dynamic simulation**

- Khajavian M., Shahsavarifar S., Salehi E., Vatanpour V., Masteri-Farahani M., Ghaffari F., Tabatabaei S. A. CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.175, pp.131-145, 2021 (SCI-Expanded)
92. **Evaluation of morphology, performance and fouling tendency of mixed matrix PVDF ultrafiltration membranes incorporated by different size-controlled SAPO-34 nanozeolites**  
Vatanpour V., Esmaeili M., Chahvari S., Masteri-Farahani M.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.5, 2021 (SCI-Expanded)
93. **A Comprehensive Review on the Applications of Boron Nitride Nanomaterials in Membrane Fabrication and Modification**  
Vatanpour V., Mehrabani S. A. N., Keskin B., Arabi N., Zeytuncu Gökoğlu B., Koyuncu İ.  
Industrial and Engineering Chemistry Research, vol.60, no.37, pp.13391-13424, 2021 (SCI-Expanded)
94. **Fabrication of chitosan-aminopropylsilane graphene oxide nanocomposite hydrogel embedded PES membrane for improved filtration performance and lead separation**  
Amiri S., Asghari A., Vatanpour Sarghein V., Rajabi M.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.294, 2021 (SCI-Expanded)
95. **Lead adsorption onto Ni- and Pt-decorated nano gamma-alumina: A first-principles study**  
Karami Z., Mashhadzadeh A. H., Shahmoradi A., Ganjali M. R., Vatanpour Sarghein V., Esmaeili A., Habibzadeh S., Sharma G., Stadler F. J., Saeb M. R.  
JOURNAL OF MOLECULAR LIQUIDS, vol.337, 2021 (SCI-Expanded)
96. **Application of graphitic carbon nitrides in developing polymeric membranes: A review**  
Safikhani A., Vatanpour Sarghein V., Habibzadeh S., Saeb M. R.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.173, pp.234-252, 2021 (SCI-Expanded)
97. **Recent advancements in the application of new monomers and membrane modification techniques for the fabrication of thin film composite membranes: A review**  
Farahbakhsh J., Vatanpour Sarghein V., Khoshnam M., Zargar M.  
REACTIVE & FUNCTIONAL POLYMERS, vol.166, 2021 (SCI-Expanded)
98. **Hydrogen peroxide treated g-C<sub>3</sub>N<sub>4</sub> as an effective hydrophilic nanosheet for modification of polyethersulfone membranes with enhanced permeability and antifouling characteristics**  
Vatanpour Sarghein V., Paziresh S., Dehqan A., Asadzadeh-Khaneghah S., Habibi-Yangjeh A.  
CHEMOSPHERE, vol.279, 2021 (SCI-Expanded)
99. **Peroxopolyoxometalate nanoparticles blended PES membrane with improved hydrophilicity, anti-fouling, permeability, and dye separation properties**  
Barzegar H., Shahsavarifar S., Vatanpour Sarghein V., Masteri-Farahani M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.31, 2021 (SCI-Expanded)
100. **Quantum dots for photocatalysis: synthesis and environmental applications**  
Jouyandeh M., Mousavi Khadem S. S., Habibzadeh S., Esmaeili A., Abida O., Vatanpour Sarghein V., Rabiee N., Bagherzadeh M., Iravani S., Reza Saeb M., et al.  
GREEN CHEMISTRY, vol.23, no.14, pp.4931-4954, 2021 (SCI-Expanded)
101. **Influence of solvent type on the ability and properties of the boehmite nanoparticles embedded emulsion polyvinyl chloride nanocomposite ultrafiltration membranes**  
Farjam M., Moghadassi A., Vatanpour Sarghein V.  
IRANIAN POLYMER JOURNAL, vol.30, no.7, pp.707-721, 2021 (SCI-Expanded)
102. **Improvement of dye and protein filtration efficiency using modified PES membrane with 2-mercaptopropanoic acid capped zinc sulfide quantum dots**  
Ganjali M. R., Al-Naqshabandi M. A., Larijani B., Badiei A., Vatanpour Sarghein V., Rajabi H. R., Rezania H., Paziresh S., Mahmoodi G., Kim S., et al.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.168, pp.109-121, 2021 (SCI-Expanded)
103. **A review on treatment of membrane concentrates generated from landfill leachate treatment processes**  
Keyikoglu R., Karatas O., Rezania H., Kobya M., Vatanpour Sarghein V., Khataee A.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.259, 2021 (SCI-Expanded)
104. **Enhancing the permeability and antifouling properties of cellulose acetate ultrafiltration membrane**

- by incorporation of ZnO@graphitic carbon nitride nanocomposite**  
Vatanpour Sarghein V., Faghani S., Keyikoglu R., Khataee A.  
CARBOHYDRATE POLYMERS, vol.256, 2021 (SCI-Expanded)
105. **Deep eutectic solvents in membrane science and technology: Fundamental, preparation, application, and future perspective**  
Taghizadeh M., Taghizadeh A., Vatanpour Sarghein V., Ganjali M. R., Saeb M. R.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.258, 2021 (SCI-Expanded)
106. **Multivariate data-based optimization of membrane adsorption process for wastewater treatment: Multi-layer perceptron adaptive neural network versus adaptive neural fuzzy inference system**  
Naghibi S. A., Salehi E., Khajavian M., Vatanpour Sarghein V., Sillanpaa M.  
CHEMOSPHERE, vol.267, 2021 (SCI-Expanded)
107. **Atomic simulation of adsorption of SO<sub>2</sub> pollutant by metal (Zn, Be)-oxide and Ni-decorated graphene: a first-principles study**  
Karami Z., Mashhadzadeh A. H., Habibzadeh S., Ganjali M. R., Ghardi E. M., Hasnaoui A., Vatanpour Sarghein V., Sharma G., Esmaeili A., Stadler F. J., et al.  
JOURNAL OF MOLECULAR MODELING, vol.27, no.3, 2021 (SCI-Expanded)
108. **Ball-milled Cu<sub>2</sub>S nanoparticles as an efficient additive for modification of the PVDF ultrafiltration membranes: Application to separation of protein and dyes**  
Karimi A., Khataee A., Ghadimi A., Vatanpour Sarghein V.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.1, 2021 (SCI-Expanded)
109. **Nanostructured polyethersulfone nanocomposite membranes for dual protein and dye separation: Lower antifouling with lanthanum (III) vanadate nanosheets as a novel nanofiller**  
Vatanpour Sarghein V., Mansourpanah Y., Khadem S. S. M., Zinadini S., Dizge N., Ganjali M. R., Mirsadeghi S., Rezapour M., Saeb M. R., Karimi-Male H.  
POLYMER TESTING, vol.94, 2021 (SCI-Expanded)
110. **Fouling decline and retention increase of polyethersulfone membrane by incorporating melamine-based dendrimer amine functionalized graphene oxide nanosheets (GO/MDA)**  
Karimipour H., Shahbazi A., Vatanpour Sarghein V.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.1, 2021 (SCI-Expanded)
111. **Efficient removal of dyes and proteins by nitrogen-doped porous graphene blended polyethersulfone nanocomposite membranes**  
Vatanpour Sarghein V., Khadem S. S. M., Dehqan A., Al-Naqshabandi M. A., Ganjali M. R., Hassani S. S., Rashid M. R., Saeb M. R., Dizge N.  
CHEMOSPHERE, vol.263, 2021 (SCI-Expanded)
112. **Photocatalytic-membrane technology: a critical review for membrane fouling mitigation**  
Nasrollahi N., Ghalamchi L., Vatanpour Sarghein V., Khataee A.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.93, pp.101-116, 2021 (SCI-Expanded)
113. **High performance compatible thiazole-based polymeric blend cellulose acetate membrane as selective CO<sub>2</sub> absorbent and molecular sieve**  
Akbarzadeh E., Shockravi A., Vatanpour Sarghein V.  
CARBOHYDRATE POLYMERS, vol.252, 2021 (SCI-Expanded)
114. **Anti-fouling polyethersulfone nanofiltration membranes aided by amine-functionalized boron nitride nanosheets with improved separation performance**  
Vatanpour Sarghein V., Karimi H., Ghazanlou S. I., Mansourpanah Y., Ganjali M. R., Badiei A., Pourbashir E., Saeb M. R.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.8, no.6, 2020 (SCI-Expanded)
115. **Erbium (III) molybdate as a new nanofiller for fabrication of antifouling polyethersulfone membranes**  
Ganjali M. R., Badiei A., Mouradzadegun A., Vatanpour V., Khadem S. S. M., Munir M. T., Habibzadeh S., Saeb M. R., Koyuncu İ.  
Materials Today Communications, vol.25, 2020 (SCI-Expanded)

116. **Antibacterial and antifouling properties of Ag<sub>3</sub>PO<sub>4</sub>/GO nanocomposite blended polyethersulfone membrane applied in dye separation**  
Barzegar H., Zahed M. A., Vatanpour Sarghein V.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.38, 2020 (SCI-Expanded)
117. **Anti-fouling and permeable polyvinyl chloride nanofiltration membranes embedded by hydrophilic graphene quantum dots for dye wastewater treatment**  
Vatanpour Sarghein V., Khadem S. S. M., Masteri-Farahani M., Mosleh N., Ganjali M. R., Badiei A., Pourbashir E., Mashhadzadeh A. H., Munir M. T., Mahmodi G., et al.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.38, 2020 (SCI-Expanded)
118. **The effect of different solvents on the morphology and performance of the ZIF-8 modified PVDF ultrafiltration membranes**  
Karimi A., Khataee A., Vatanpour Sarghein V., Safarpour M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.253, 2020 (SCI-Expanded)
119. **Treatability of household waste plastic garbage bag recycling industry wastewater with membrane**  
Arikan E. B., Ozay Y., Unal B. O., Vatanpour Sarghein V., Dizge N.  
MEMBRANE AND WATER TREATMENT, vol.11, no.6, pp.375-382, 2020 (SCI-Expanded)
120. **Ethaline deep eutectic solvent as a hydrophilic additive in modification of polyethersulfone membrane for antifouling and separation improvement**  
Vatanpour Sarghein V., Dehqan A., Harifi-Mood A. R.  
JOURNAL OF MEMBRANE SCIENCE, vol.614, 2020 (SCI-Expanded)
121. **Nanofiltration of dye solution using chitosan/poly(vinyl alcohol)/ZIF-8 thin film composite adsorptive membranes with PVDF membrane beneath as support**  
Khajavian M., Salehi E., Vatanpour Sarghein V.  
CARBOHYDRATE POLYMERS, vol.247, 2020 (SCI-Expanded)
122. **Nanostructured polyethersulfone membranes for dye and protein separation: Exploring antifouling role of holmium (III) molybdate nanosheets**  
Ganjali M. R., Badiei A., Mouradzadegun A., Vatanpour Sarghein V., Rezania H., Khadem S. S. M., Shamiry F., Munir M. T., Habibzadeh S., Saeb M. R.  
POLYMER TESTING, vol.91, 2020 (SCI-Expanded)
123. **A comprehensive investigation of effective parameters in continuous submerged photocatalytic membrane reactors by RSM**  
Vatanpour Sarghein V., Darrudi N., Sheydae M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.157, 2020 (SCI-Expanded)
124. **Fabrication and characterization of a novel polyvinyl alcohol-graphene oxide-sodium alginate nanocomposite hydrogel blended PES nanofiltration membrane for improved water purification**  
Amiri S., Asghari A., Vatanpour Sarghein V., Rajabi M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.250, 2020 (SCI-Expanded)
125. **High temperature membranes based on PBI/sulfonated polyimide and doped-perovskite nanoparticles for PEM fuel cells**  
Hooshayri K., Rezania H., Vatanpour Sarghein V., Salarizadeh P., Askari M. B., Beydagi H., Enhessari M.  
JOURNAL OF MEMBRANE SCIENCE, vol.612, 2020 (SCI-Expanded)
126. **Surface modification of reverse osmosis membranes by grafting of polyamidoamine dendrimer containing graphene oxide nanosheets for desalination improvement**  
Vatanpour Sarghein V., Sanadgol A.  
DESALINATION, vol.491, 2020 (SCI-Expanded)
127. **Hydrogel membranes: A review**  
Yazdi M. K., Vatanpour Sarghein V., Taghizadeh A., Taghizadeh M., Ganjali M. R., Munir M. T., Habibzadeh S., Saeb M. R., Ghaedi M.  
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.114, 2020 (SCI-Expanded)
128. **Tuning thin-film composite reverse osmosis membranes using deep eutectic solvents and ionic**

- liquids toward enhanced water permeation**  
Shahabi S. S., Azizi N., Vatanpour Sarghein V.  
JOURNAL OF MEMBRANE SCIENCE, vol.610, 2020 (SCI-Expanded)
129. **Preparation, characterization and performance evaluation of ZnO deposited polyethylene ultrafiltration membranes for dye and protein separation**  
Vatanpour Sarghein V., Nekouhi G. N., Esmaeli M.  
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.114, pp.153-167, 2020 (SCI-Expanded)
130. **Novel antifouling and antibacterial polyethersulfone membrane prepared by embedding nitrogen-doped carbon dots for efficient salt and dye rejection**  
Koulivand H., Shahbazi A., Vatanpour Sarghein V., Rahmandoost M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.111, 2020 (SCI-Expanded)
131. **NaA zeolite-coated meshes with tunable hydrophilicity for oil-water separation**  
Mahmodi G., Dangwal S., Zarrintaj P., Zhu M., Mao Y., McIlroy D. N., Saeb M. R., Vatanpour Sarghein V., Ramsey J. D., Kim S.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.240, 2020 (SCI-Expanded)
132. **Fouling decline and retention increase of polyvinyl chloride nanofiltration membranes blended by polypyrrole functionalized multiwalled carbon nanotubes**  
Haghigat N., Vatanpour Sarghein V.  
MATERIALS TODAY COMMUNICATIONS, vol.23, 2020 (SCI-Expanded)
133. **Chitosan/polyvinyl alcohol thin membrane adsorbents modified with zeolitic imidazolate framework (ZIF-8) nanostructures: Batch adsorption and optimization**  
Khajavian M., Salehi E., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.241, 2020 (SCI-Expanded)
134. **Modification of polyethersulfone ultrafiltration membrane using ultrasonic-assisted functionalized MoS<sub>2</sub> for treatment of oil refinery wastewater**  
Arefi-Oskoui S., Khataee A., Safarpour M., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.238, 2020 (SCI-Expanded)
135. **Removal of Chromate and Nitrate Ions from Aqueous Solutions by CoxFe3-xO4@silica Hybrid Nanoparticles Decorated with Cross-Linked Tragacanth Gum: Experiment, Modeling and Optimization**  
Moghaddam A. Z., Jazi M. E., Allahrasani A., Khazaei M., Ganjali M. R., Saeb M. R., Vatanpour Sarghein V.  
CHEMISTRYSELECT, vol.5, no.18, pp.5404-5413, 2020 (SCI-Expanded)
136. **Structural manipulation of PES constituents to prepare advanced alternative polymer for ultrafiltration membrane**  
Rezania H., Vatanpour Sarghein V., Arapour A., Shockravi A., Ehsani M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.20, 2020 (SCI-Expanded)
137. **Development of mixed matrix ZIF-8/polyvinylidene fluoride membrane with improved performance in solvent resistant nanofiltration**  
Karimi A., Khataee A., Safarpour M., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.237, 2020 (SCI-Expanded)
138. **Effect of nanoboehmite/poly(ethylene glycol) on the performance and physicochemical attributes EPVC nano-composite membranes in protein separation**  
Farjam M., Vatanpour Sarghein V., Moghadassi A.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.156, pp.371-383, 2020 (SCI-Expanded)
139. **Preparation of a novel polyvinyl chloride (PVC) ultrafiltration membrane modified with Ag/TiO<sub>2</sub> nanoparticle with enhanced hydrophilicity and antibacterial activities**  
Haghigat N., Vatanpour Sarghein V., Sheydae M., Nikjavan Z.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.237, 2020 (SCI-Expanded)
140. **Preparation and characterization of novel nanoporous SBA-16-COOH embedded polysulfone ultrafiltration membrane for protein separation**  
Vatanpour Sarghein V., Rabiee H., Farahani M. H. D. A., Masteri-Farahani M., Niakan M.

- CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.156, pp.240-250, 2020 (SCI-Expanded)
141. **Fabrication of thin-film nanocomposite nanofiltration membranes incorporated with aromatic amine-functionalized multiwalled carbon nanotubes. Rejection performance of inorganic pollutants from groundwater with improved acid and chlorine resistance**  
Gholami S., Lopez J., Rezvani A., Vatanpour Sarghein V., Luis Cortina J.  
CHEMICAL ENGINEERING JOURNAL, vol.384, 2020 (SCI-Expanded)
142. **Novel functionalized graphitic carbon nitride incorporated thin film nanocomposite membranes for high-performance reverse osmosis desalination**  
Shahabi S. S., Azizi N., Vatanpour Sarghein V., Yousefimehr N.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.235, 2020 (SCI-Expanded)
143. **Surface modification of polyvinylidene fluoride membranes with ZIF-8 nanoparticles layer using interfacial method for BSA separation and dye removal**  
Vatanpour Sarghein V., Khorshidi S.  
MATERIALS CHEMISTRY AND PHYSICS, vol.241, 2020 (SCI-Expanded)
144. **Tuning the band gap of the graphene oxide-chloro aluminum phthalocyanine nanocomposite by reducing the rate of graphene oxide**  
Aghdam A. H., Araghi M. E. A., Vatanpour Sarghein V.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.115, 2020 (SCI-Expanded)
145. **Fabrication of a new emulsion polyvinyl chloride (EPVC) nanocomposite ultrafiltration membrane modified by para-hydroxybenzoate alumoxane (PHBA) additive to improve permeability and antifouling performance**  
Farjami M., Vatanpour Sarghein V., Moghadassi A.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.153, pp.8-20, 2020 (SCI-Expanded)
146. **Novel chitosan/polyvinyl alcohol thin membrane adsorbents modified with detonation nanodiamonds: Preparation, characterization, and adsorption performance**  
Vatanpour Sarghein V., Salehi E., Sahebjamee N., Ashrafi M.  
ARABIAN JOURNAL OF CHEMISTRY, vol.13, no.1, pp.1731-1740, 2020 (SCI-Expanded)
147. **Development of carbon dot-modified polyethersulfone membranes for enhancement of nanofiltration, permeation and antifouling performance**  
Koulivand H., Shahbazi A., Vatanpour Sarghein V., Rahmandoust M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.230, 2020 (SCI-Expanded)
148. **Influence of the various pore former additives on the performance and characteristics of the bare and EPVC/boehmite nanocomposite ultrafiltration membranes**  
Farjami M., Vatanpour Sarghein V., Moghadassi A.  
MATERIALS TODAY COMMUNICATIONS, vol.21, 2019 (SCI-Expanded)
149. **High-flux PVDF mixed matrix membranes embedded with size-controlled ZIF-8 nanoparticles**  
Karimi A., Khataee A., Vatanpour Sarghein V., Safarpour M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.229, 2019 (SCI-Expanded)
150. **Poly(itaconic acid)-assisted ultrafiltration of heavy metal ions' removal from wastewater**  
Rezania H., Vatanpour Sarghein V., Faghani S.  
IRANIAN POLYMER JOURNAL, vol.28, no.12, pp.1069-1077, 2019 (SCI-Expanded)
151. **Development of an antibacterial and visible photocatalytic nanocomposite microfiltration membrane incorporated by Ag<sub>3</sub>PO<sub>4</sub>/CuZnAl NLDH**  
Ghalamchi L., Aber S., Vatanpour Sarghein V., Kian M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.226, pp.218-231, 2019 (SCI-Expanded)
152. **A review on the applications of ultrasonic technology in membrane bioreactors**  
Arefi-Oskoui S., Khataee A., Safarpour M., Orooji Y., Vatanpour Sarghein V.  
ULTRASONICS SONOCHEMISTRY, vol.58, 2019 (SCI-Expanded)
153. **Continuous flow photoelectrocatalysis/reverse osmosis hybrid reactor for degradation of a pesticide using nano N-TiO<sub>2</sub>/Ag/Ti electrode under visible light**  
Sheydae M., Karimi M., Vatanpour Sarghein V.

- JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.384, 2019 (SCI-Expanded)
154. Efficient thiazole-based polyimines as selective and reversible chemical absorbents for CO<sub>2</sub> capture and separation: Synthesis, characterization and application  
Akbarzadeh E., Shockravi A., Vatanpour Sarghein V.  
POLYMER, vol.182, 2019 (SCI-Expanded)
155. Improving the permeability and antifouling property of PES ultrafiltration membranes using the drying method and incorporating the CuO-ZnO nanocomposite  
Nasrollahi N., Vatanpour Sarghein V., Aber S.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.31, 2019 (SCI-Expanded)
156. Coupling visible light sono-photocatalysis and sono-enhanced ultrafiltration processes for continuous flow degradation of dyestuff using N-doped titania nanoparticles  
Sheydae M., Zangouei M., Vatanpour Sarghein V.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.143, 2019 (SCI-Expanded)
157. Systematic comparison of sono-synthesized Ce-, La- and Ho-doped ZnO nanoparticles and using the optimum catalyst in a visible light assisted continuous sono-photocatalytic membrane reactor  
Sheydae M., Fattah M., Ghalamchi L., Vatanpour Sarghein V.  
ULTRASONICS SONOCHEMISTRY, vol.56, pp.361-371, 2019 (SCI-Expanded)
158. Study of synergetic effect and comparison of novel sulfonated and carboxylated bulky diamine-diol and piperazine in preparation of negative charge NF membrane  
Rezania H. (, Vatanpour Sarghein V., Shockravi A., Ehsani M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.222, pp.284-296, 2019 (SCI-Expanded)
159. Wholly Heterocycles-Based Polyamide-Sulfide Containing Pyridine and Thiazole Rings: A Super-Adsorbent Polymer for Lead Removal  
Rezania H., Vatanpour Sarghein V., Salehi E., Gavari N., Shockravi A., Ehsani M.  
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.27, no.8, pp.1790-1800, 2019 (SCI-Expanded)
160. Simulation and characterization of novel reverse osmosis membrane prepared by blending polypyrrole coated multiwalled carbon nanotubes for brackish water desalination and antifouling properties using artificial neural networks  
Farahbakhsh J., Delnavaz M., Vatanpour Sarghein V.  
JOURNAL OF MEMBRANE SCIENCE, vol.581, pp.123-138, 2019 (SCI-Expanded)
161. Comparison of NLDH and g-C<sub>3</sub>N<sub>4</sub> nanoplates and formative Ag<sub>3</sub>Po<sub>4</sub> nanoparticles in PES microfiltration membrane fouling: Applications in MBR  
Ghalamchi L., Aber S., Vatanpour Sarghein V., Kian M.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.147, pp.443-457, 2019 (SCI-Expanded)
162. Improvement of polyvinyl chloride nanofiltration membranes by incorporation of multiwalled carbon nanotubes modified with triethylenetetramine to use in treatment of dye wastewater  
Vatanpour Sarghein V., Haghigat N.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.242, pp.90-97, 2019 (SCI-Expanded)
163. Contra-diffusion synthesis of ZIF-8 layer on polyvinylidene fluoride ultrafiltration membranes for improved water purification  
Karimi A., Vatanpour Sarghein V., Khataee A., Safarpour M.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.73, pp.95-105, 2019 (SCI-Expanded)
164. Improved visible photocatalytic activity of TiO<sub>2</sub> nanoparticles to use in submerged membrane photoreactor for organic pollutant degradation  
Vatanpour Sarghein V., Karami A., Sheydae M.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.5, pp.2405-2414, 2019 (SCI-Expanded)
165. Synthesis and characterization of novel g-C<sub>3</sub>N<sub>4</sub> modified thin film nanocomposite reverse osmosis membranes to enhance desalination performance and fouling resistance  
Shahabi S. S., Azizi N., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.215, pp.430-440, 2019 (SCI-Expanded)

166. **Fabrication and characterization of a high-flux and antifouling polyethersulfone membrane for dye removal by embedding Fe<sub>3</sub>O<sub>4</sub>-MDA nanoparticles**  
Koulivand H., Shahbazi A., Vatanpour Sarghein V.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.145, pp.64-75, 2019 (SCI-Expanded)
167. **A novel antifouling ultrafiltration membranes prepared from percarboxylic acid functionalized SiO<sub>2</sub> bound Fe<sub>3</sub>O<sub>4</sub> nanoparticle (SCMNP-COOOH)/polyethersulfone nanocomposite for BSA separation and dye removal**  
Vatanpour Sarghein V., Shahsavarifar S., Khorshidi S., Masteri-Farahani M.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.94, no.4, pp.1341-1353, 2019 (SCI-Expanded)
168. **Preparation and characterization of a novel high-flux emulsion polyvinyl chloride (EPVC) ultrafiltration membrane incorporated with boehmite nanoparticles**  
Farjami M., Moghadassi A., Vatanpour Sarghein V., Hosseini S. M., Parvizian F.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.72, pp.144-156, 2019 (SCI-Expanded)
169. **Fabrication of high-performance antibiofouling ultrafiltration membranes with potential application in membrane bioreactors (MBRs) comprising polyethersulfone (PES) and polycitrate-Alumoxane (PC -A)**  
Pirsahab M., Farahani M. H. D. A., Zinadini S., Zinatizadeh A. A., Rahimi M., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.211, pp.618-627, 2019 (SCI-Expanded)
170. **Synthesis and characterization of soluble aromatic polyamides containing double sulfide bond and thiazole ring**  
Rezania J., Hayatipour M., Shockravi A., Ehsani M., Vatanpour Sarghein V.  
POLYMER BULLETIN, vol.76, no.3, pp.1547-1556, 2019 (SCI-Expanded)
171. **Comparing the effect of incorporation of various nanoparticulate on the performance and antifouling properties of polyethersulfone nanocomposite membranes**  
Farahani M. H. D. A., Rabiee H., Vatanpour Sarghein V.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.27, pp.47-57, 2019 (SCI-Expanded)
172. **A novel antibacterial mixed matrix PES membrane fabricated from embedding aminated Ag<sub>3</sub>P<sub>0</sub><sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposite for use in the membrane bioreactor**  
Ghalamchi L., Aber S., Vatanpour Sarghein V., Kian M.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.70, pp.412-426, 2019 (SCI-Expanded)
173. **Preparation and performance evaluation of carboxylic acid containing polyamide incorporated microporous ultrafiltration PES membranes**  
Rezania J., Shockravi A., Vatanpour Sarghein V., Ehsani M.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.30, no.2, pp.407-416, 2019 (SCI-Expanded)
174. **Development of hydrophilic microporous PES ultrafiltration membrane containing CuO nanoparticles with improved antifouling and separation performance**  
Nasrollahi N., Aber S., Vatanpour Sarghein V., Mahmoodi N. M.  
MATERIALS CHEMISTRY AND PHYSICS, vol.222, pp.338-350, 2019 (SCI-Expanded)
175. **Effect of different additives on the physicochemical properties and performance of NLDH/PVDF nanocomposite membrane**  
Oskoui S. A., Vatanpour Sarghein V., Khataee A.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.209, pp.921-935, 2019 (SCI-Expanded)
176. **Synergistic effect of carboxylated-MWCNTs on the performance of acrylic acid UV-grafted polyamide nanofiltration membranes**  
Vatanpour Sarghein V., Esmaeli M., Safarpour M., Ghadimi A., Adabi J.  
REACTIVE & FUNCTIONAL POLYMERS, vol.134, pp.74-84, 2019 (SCI-Expanded)
177. **The effect of amine functionalization of CuO and ZnO nanoparticles used as additives on the morphology and the permeation properties of polyethersulfone ultrafiltration nanocomposite membranes**  
Nasrollahi N., Aber S., Vatanpour Sarghein V., Mahmoodi N. M.  
COMPOSITES PART B-ENGINEERING, vol.154, pp.388-409, 2018 (SCI-Expanded)

178. **Effect of detonation nanodiamond on the properties and performance of polyethersulfone nanocomposite membrane**  
Vatanpour Sarghem V., Naeeni R. S. E., Ghadimi A., Karami A., Sadatnia B.  
DIAMOND AND RELATED MATERIALS, vol.90, pp.244-255, 2018 (SCI-Expanded)
179. **Preparation of novel carboxylated thin-film composite polyamide-polyester nanofiltration membranes with enhanced antifouling property and water flux**  
Rezania J., Vatanpour Sarghem V., Shockravi A., Ehsani M.  
REACTIVE & FUNCTIONAL POLYMERS, vol.131, pp.123-133, 2018 (SCI-Expanded)
180. **Improving the chlorine resistance property of polyamide TFC RO membrane by polyethylene glycol diacrylate (PEGDA) coating**  
Gholami S., Rezvani A., Vatanpour Sarghem V., Luis Cortina J.  
DESALINATION, vol.443, pp.245-255, 2018 (SCI-Expanded)
181. **Novel polyimides based on diamine containing thiazole units with thioether linkage and pyridine as pendent group: Synthesis and characterization**  
Rezania J., Shockravi A., Ehsani M., Vatanpour Sarghem V.  
HIGH PERFORMANCE POLYMERS, vol.30, no.7, pp.840-846, 2018 (SCI-Expanded)
182. **Thin-film nanofiltration membrane with monomers of 1,2,4,5-benzene tetracarbonyl chloride and ethylene diamine on electrospun support: preparation, morphology and chlorine resistance properties**  
Qanati O., Ahmadi A., Dorraji M. S. S., Rasoulifard M. H., Vatanpour Sarghem V.  
POLYMER BULLETIN, vol.75, no.8, pp.3407-3425, 2018 (SCI-Expanded)
183. **Antifouling polyvinylidene fluoride ultrafiltration membrane fabricated from embedding polypyrrole coated multiwalled carbon nanotubes**  
Vatanpour Sarghem V., Ghadimi A., Karimi A., Khataee A., Yekavalangi M. E.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.89, pp.41-51, 2018 (SCI-Expanded)
184. **Synthesis of a novel sulfonated poly(amide-imide) and its application in preparation of ultrafiltration PES membranes as a modifier**  
Rezania J., Vatanpour Sarghem V., Hayatipour M., Shockravi A., Ehsani M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.28, 2018 (SCI-Expanded)
185. **Polymer/Clay Nanocomposites Based on Aliphatic-Aromatic Polyamide Containing Thiazole Ring and New Organomodified Nanosilicate Layers: Synthesis, Characterization, and Thermal Properties Study**  
Jalali A., Shockravi A., Hajibeygi M., Vatanpour Sarghem V.  
POLYMER COMPOSITES, vol.39, 2018 (SCI-Expanded)
186. **A comprehensive study on the performance and antifouling enhancement of the PVDF mixed matrix membranes by embedding different nanoparticulates: Clay, functionalized carbon nanotube, SiO<sub>2</sub> and TiO<sub>2</sub>**  
Farahani M. H. D. A., Vatanpour Sarghem V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.197, pp.372-381, 2018 (SCI-Expanded)
187. **Surface modification of PES membrane via aminolysis and immobilization of carboxymethylcellulose and sulphated carboxymethylcellulose for hemodialysis**  
Hoseinpour V., Ghaee A., Vatanpour Sarghem V., Ghaemi N.  
CARBOHYDRATE POLYMERS, vol.188, pp.37-47, 2018 (SCI-Expanded)
188. **An Investigation on Gas Transport Properties of Cross-Linked Poly(ethylene glycol diacrylate) (XLPEGDA) and XLPEGDA/TiO<sub>2</sub> Membranes with a Focus on CO<sub>2</sub> Separation**  
Ghadimi A., Norouzbahari S., Vatanpour Sarghem V., Mohammadi F.  
ENERGY & FUELS, vol.32, no.4, pp.5418-5432, 2018 (SCI-Expanded)
189. **Preparation and characterization of a novel polyethersulfone (PES) ultrafiltration membrane modified with a CuO/ZnO nanocomposite to improve permeability and antifouling properties**  
Nasrollahi N., Vatanpour Sarghem V., Aber S., Mahmoodi N. M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.192, pp.369-382, 2018 (SCI-Expanded)

190. **Energy recovery and hygienic water production from wastewater using an innovative integrated microbial fuel cell-membrane separation process**  
Zinadini S., Zinatizadeh A. A., Rahimi M., Vatanpour Sarghem V., Bahrami K.  
ENERGY, vol.141, pp.1350-1362, 2017 (SCI-Expanded)
191. **Box-Behnken design as a systematic approach to inspect correlation between synthesis conditions and desalination performance of TFC RO membranes**  
Vatanpour Sarghem V., Sheydaei M., Esmaeili M.  
DESALINATION, vol.420, pp.1-11, 2017 (SCI-Expanded)
192. **Preparation and characterization of graphene oxide/TiO<sub>2</sub> blended PES nanofiltration membrane with improved antifouling and separation performance**  
Safarpour M., Vatanpour Sarghem V., Khataee A.  
DESALINATION, vol.393, pp.65-78, 2016 (SCI-Expanded)
193. **Improvement in desalination performance of thin film nanocomposite nanofiltration membrane using amine-functionalized multiwalled carbon nanotube**  
Zarrabi N., Yekavalangi M. E., Vatanpour Sarghem V., Shockravi A., Safarpour M.  
DESALINATION, vol.394, pp.83-90, 2016 (SCI-Expanded)
194. **Development of a novel high-flux PVDF-based ultrafiltration membrane by embedding Mg-Al nanolayered double hydroxide**  
Arefi-Oskoui S., Vatanpour Sarghem V., Khataee A.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.41, pp.23-32, 2016 (SCI-Expanded)
195. **Synergistic effect of silica nanoparticles in the matrix of a poly(ethylene glycol) diacrylate coating layer for the surface modification of polyamide nanofiltration membranes**  
Vatanpour Sarghem V., Kavian M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.33, 2016 (SCI-Expanded)
196. **Preparation and characterization of novel microporous ultrafiltration PES membranes using synthesized hydrophilic polysulfide-amide copolymer as an additive in the casting solution**  
Jalali A., Shockravi A., Vatanpour Sarghem V., Hajibeygi M.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.228, pp.1-13, 2016 (SCI-Expanded)
197. **Hydrophilic goethite nanoparticle as a novel antifouling agent in fabrication of nanocomposite polyethersulfone membrane**  
Rahimi M., Zinadini S., Zinatizadeh A. A., Vatanpour Sarghem V., Rajabi L., Rahimi Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.26, 2016 (SCI-Expanded)
198. **Fouling reduction of emulsion polyvinylchloride ultrafiltration membranes blended by PEG: the effect of additive concentration and coagulation bath temperature**  
Farahani M. H. D. A., Rabiee H., Vatanpour Sarghem V., Borghei S. M.  
DESALINATION AND WATER TREATMENT, vol.57, no.26, pp.11931-11944, 2016 (SCI-Expanded)
199. **Preparation and characterization of nanocomposite PVDF ultrafiltration membrane embedded with nanoporous SAPO-34 to improve permeability and antifouling performance**  
Vatanpour Sarghem V., Yekavalangi M. E., Safarpour M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.163, pp.300-309, 2016 (SCI-Expanded)
200. **Recovery of cooling tower blowdown water for reuse: The investigation of different types of pretreatment prior nanofiltration and reverse osmosis**  
Farahani M. H. D. A., Borghei S. M., Vatanpour Sarghem V.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.10, pp.188-199, 2016 (SCI-Expanded)
201. **Effect of CO<sub>2</sub>-laser irradiation on properties and performance of thin-film composite polyamide reverse osmosis membrane**  
Jahangiri F., Mousavi S. A., Farhadi F., Vatanpour Sarghem V., Sabzi B., Chenari Z.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.33, no.3, pp.1028-1036, 2016 (SCI-Expanded)
202. **Electrochemical catalytic degradation and biodegradability enhancement of real textile wastewater by anodic and cathodic reactions**  
Eslami A., Moradi M., Ghanbari F., Vatanpour Sarghem V.

- Environmental Engineering and Management Journal, vol.15, no.10, pp.2319-2326, 2016 (SCI-Expanded)
203. **Improvement in flux and antifouling properties of PVC ultrafiltration membranes by incorporation of zinc oxide (ZnO) nanoparticles**  
Rabiee H., Vatanpour Sarghein V., Farahani M. H. D. A., Zarrabi H.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.156, pp.299-310, 2015 (SCI-Expanded)
204. **Modeling and simulation of CO<sub>2</sub> removal in a polyvinylidene fluoride hollow fiber membrane contactor with computational fluid dynamics**  
Farjami M., Moghadassi A., Vatanpour Sarghein V.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.98, pp.41-51, 2015 (SCI-Expanded)
205. **Development of a novel high flux and fouling-resistant thin film composite nanofiltration membrane by embedding reduced graphene oxide/TiO<sub>2</sub>**  
Safarpour M., Vatanpour Sarghein V., Khataee A., Esmaeili M.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.154, pp.96-107, 2015 (SCI-Expanded)
206. **Fabrication and characterization of anti-fouling and anti-bacterial Ag-loaded graphene oxide/polyethersulfone mixed matrix membrane**  
Vatanpour Sarghein V., Shockravi A., Zarrabi H., Nikjavan Z., Javadi A.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.30, pp.342-352, 2015 (SCI-Expanded)
207. **Removal of Coke Particles from Oil Contaminated Marun Petrochemical Wastewater Using PVDF Microfiltration Membrane**  
Madaeni S. S., Vatanpour Sarghein V., Monfared H. A., Shamsabadi A. A., Majdian K., Laki S.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.50, no.20, pp.11712-11719, 2011 (SCI-Expanded)
208. **The Influence of Membrane Formation Parameters on Structural Morphology and Performance of PES/PDMS Composite Membrane for Gas Separation**  
Madaeni S. S., Enayati E., Vatanpour Sarghein V.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.122, no.2, pp.827-839, 2011 (SCI-Expanded)
209. **Thermodynamically comparison of Na<sup>+</sup> and Ca<sup>2+</sup> adsorption onto PVD and NF45 membranes**  
Salehi E., Madaeni S. S., Raad S. S., Manesh A. A. S., Vatanpour Sarghein V.  
DESALINATION, vol.281, pp.312-318, 2011 (SCI-Expanded)
210. **A new approach to improve antifouling property of PVDF membrane using in situ polymerization of PAA functionalized TiO<sub>2</sub> nanoparticles**  
Madaeni S. S., Zinadini S., Vatanpour Sarghein V.  
JOURNAL OF MEMBRANE SCIENCE, vol.380, no.1-2, pp.155-162, 2011 (SCI-Expanded)
211. **Convective flow adsorption of nickel ions in PVDF membrane embedded with multi-walled carbon nanotubes and PAA coating**  
Madaeni S. S., Zinadini S., Vatanpour Sarghein V.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.80, no.1, pp.155-162, 2011 (SCI-Expanded)
212. **Fabrication and characterization of novel antifouling nanofiltration membrane prepared from oxidized multiwalled carbon nanotube/polyethersulfone nanocomposite**  
Vatanpour Sarghein V., Madaeni S. S., Moradian R., Zinadini S., Astinchap B.  
JOURNAL OF MEMBRANE SCIENCE, vol.375, no.1-2, pp.284-294, 2011 (SCI-Expanded)
213. **Development of ion imprinted technique for designing nickel ion selective membrane**  
Vatanpour Sarghein V., Madaeni S. S., Zinadini S., Rajabi H. R.  
JOURNAL OF MEMBRANE SCIENCE, vol.373, no.1-2, pp.36-42, 2011 (SCI-Expanded)
214. **Decolorization of CI Acid Blue 9 solution by UV/Nano-TiO<sub>2</sub>, Fenton, Fenton-like, electro-Fenton and electrocoagulation processes: A comparative study**  
Khataee A. R., Vatanpour Sarghein V., Ghadim A. R. A.  
JOURNAL OF HAZARDOUS MATERIALS, vol.161, no.2-3, pp.1225-1233, 2009 (SCI-Expanded)
215. **Electro-Fenton treatment of dye solution containing Orange II: Influence of operational parameters**  
Daneshvar N., Aber S., Vatanpour Sarghein V., Rasoulifard M. H.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.615, no.2, pp.165-174, 2008 (SCI-Expanded)
216. **Polyacrylonitrile in the Preparation of Separation Membranes: A Review**

## Articles Published in Other Journals

1. **Recent Advances in Nanocomposite Membranes for Organic Compound Remediation from Potable Waters**  
Cosme J. R. A., Castro-Muñoz R., Vatanpour Sarghem V.  
ChemBioEng Reviews, vol.10, no.2, pp.112-132, 2023 (Scopus)
2. **Polyvinyl alcohol-based separation membranes: a comprehensive review on fabrication techniques, applications and future prospective**  
Vatanpour Sarghem V., Teber O., Mehrabi M., Koyuncu İ.  
Materials Today Chemistry, vol.28, 2023 (Scopus)
3. **A review on dendrimers in preparation and modification of membranes: progress, applications, and challenges**  
Karatas O., Keyikoglu R., Gengec N. A., Vatanpour V., Khataee A.  
Materials Today Chemistry, vol.23, 2022 (Scopus)
4. **Remediation of the textile dye brilliant blue FCF from contaminated water via a fenton-like reaction: Influence of aromatic additives**  
Khataee A., Vatanpour Sarghem V., Farajzadeh M. R.  
Turkish Journal of Engineering and Environmental Sciences, vol.32, no.6, pp.367-376, 2008 (Scopus)

## Metrics

Publication: 275

Citation (WoS): 10417

Citation (Scopus): 11372

H-Index (WoS): 51

H-Index (Scopus): 54

## Research Areas

Environmental Chemistry, Waste Water Collection and Treatment, Environmental Management, Water Supply and Treatment, Hazardous Waste Management, Groundwater Engineering