



# VAHID VATANPOUR SARGHEIN

## PROF.DR.

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### Ögrenim Bilgisi

Ön Lisans

2013 - 2017

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

Bütünleşik Doktora

2009 - 2013

Razi University, Chemistry, Applied Chemistry, İran

### Akademik Unvanlar / Görevler

Prof.Dr.

2021 - Devam Ediyor

İstanbul Teknik Üniversitesi, İnşaat, Çevre Mühendisliği

### Desteklenen Projeler

1. Vatanpour Sarghein V., Koyuncu İ., Nazırı Mehrabani S., Keskin B., Yükseköğretim Kurumları Destekli Proje, Membranların imalatında ve modifikasiyonunda MAX Faz kullanımı, 2022 - 2023
2. Vatanpour Sarghein V., Şirket, Fabrication of 8040 Spiral Wound Reverse Osmosis Module for Brackish Water Desalination, 2014 - 2017

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.199, ss.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, cilt.62, sa.43, ss.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, cilt.140, sa.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.11, sa.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, cilt.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, cilt.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, cilt.62, sa.29, ss.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, cilt.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, cilt.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, cilt.33, sa.7, ss.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, cilt.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, cilt.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, cilt.20, sa.6, ss.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, cilt.140, sa.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, cilt.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, cilt.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, cilt.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, cilt.34, sa.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, cilt.140, sa.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, cilt.190, ss.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, cilt.117, ss.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, cilt.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, cilt.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, cilt.210, sa.11, ss.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, cilt.30, sa.2, ss.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, cilt.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, cilt.34, sa.1, ss.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, cilt.116, ss.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.10, sa.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, cilt.139, sa.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, cilt.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, cilt.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, cilt.27, sa.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.838, 2022 (SCI-Expanded)
54. Nanomaterials in membrane bioreactors: Recent progresses, challenges, and potentials  
Vatanpour Sarghem V., Ağtaş M., Abdelrahman A. M., Erşahin M. E., Özgün Erşahin H., Koyuncu İ.  
CHEMOSPHERE, cilt.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 Sarghem V., Dehqan A.  
Chemosphere, cilt.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, cilt.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 Sarghem V., He T.  
Reactive and Functional Polymers, cilt.177, 2022 (SCI-Expanded)
58. Electrospraying technique in fabrication of separation membranes: A review  
Vatanpour Sarghem V., Köse Mutlu B., Koyuncu İ.  
DESALINATION, cilt.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, cilt.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, cilt.10, sa.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, cilt.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, cilt.10, sa.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, cilt.109, ss.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 Sarghem V., Karatas O., Amiri S., Rajabi H. R., Koyuncu İ., Khataee A.  
CHEMOSPHERE, cilt.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, cilt.109, ss.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

- Sarghem V., et al.  
POLYMERS, cilt.14, sa.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.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 Sarghem V., Paziresh S., Mehrabani S. A. N., Feizpoor S., Habibi-Yangjeh A., Koyuncu İ.  
DESALINATION, cilt.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, cilt.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, cilt.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, cilt.29, sa.15, ss.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.  
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Yayın: 275

Atıf (WoS): 10417

Atıf (Scopus): 11372

H-İndeks (WoS): 51

H-İndeks (Scopus): 54

## Araştırma Alanları

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