

## بسمه تعالی

### مشخصات فردی:

نام و نام خانوادگی: مهسا باغبان صالحی

تاریخ تولد: ۱۳۶۰

پست سازمانی: هیات علمی پژوهشگاه شیمی و مهندسی شیمی، معاون فناوری

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### سوابق تحصیلی:

| مدرک تحصیلی   | رشته تحصیلی | گرایش                      | محل اخذ مدرک       | سال اخذ مدرک |
|---------------|-------------|----------------------------|--------------------|--------------|
| دکتری         | مهندسی شیمی | ترمو سینتیک                | دانشگاه تربیت مدرس | ۱۳۹۲         |
| کارشناسی ارشد | مهندسی شیمی | -                          | دانشگاه تربیت مدرس | ۱۳۸۵         |
| کارشناسی      | مهندسی شیمی | طراحی فرایندهای صنایع نفتی | دانشگاه علم و صنعت | ۱۳۸۳         |

### عناوین پروژه های کارشناسی و کارشناسی ارشد و دکتری:

کارشناسی: رنگبری از پساب نساجی با استفاده از خاصیت جذب سطحی باگاس  
کارشناسی ارشد: مدلسازی و بررسی عملکرد ژل پلیمر در مخازن نفتی به منظور جلوگیری از تولید آب  
دکتری: تهیه ژل پلیمر بهینه با تاکید بر خواص رئولوژی و بررسی کارایی آن در محیط متخلخل به منظور انسداد آب در مخازن.

### فعالیت های اجرایی:

- ۱- معاون فناوری پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۴ ادامه دار؛
- ۲- مدیر ارتباط با صنعت پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۱-۱۴۰۴؛
- ۳- رئیس پژوهشکده مهندسی نفت پژوهشگاه شیمی و مهندسی شیمی ایران ۱۴۰۰-۱۴۰۱؛
- ۴- عضو حقیقی کارگروه بررسی صلاحیت عمومی پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۱ به مدت ۴ سال؛
- ۵- عضو شورای پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۲ ادامه دار؛
- ۶- عضو کمیته ارزیابی مرکز رشد پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۲ ادامه دار؛
- ۷- عضو شورای هماهنگی تولید مواد شیمیایی از سال ۱۴۰۱ ادامه دار؛
- ۸- عضو کارگروه بهره وری پژوهشگاه شیمی و مهندسی شیمی ایران از سال ۱۴۰۲ ادامه دار؛

### مقالات چاپ شده در مجلات ISI :

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- 2- Jafarzadeh, Ehsan, Farzin Saghandali, Mahsa Baghban Salehi, Hamid Reza Mortaheb, and Vahid Taghikhani. "Synergistic biosurfactant-integrated hydrogels mitigate washout for sustainable enhanced oil recovery in harsh carbonates." Scientific Reports (2026). <https://doi.org/10.1038/s41598-026-61310-2>
- 3- Kazemi Kia, Anahita, Mahyar Moemeni, Ali Asghar Nozaeim, Hamid Reza Mortaheb, and Mahsa Baghban Salehi. "A Comparative Study of Lithium Carbonate Precipitation in Chloride and Sulfate Environments." Journal of Sustainable Metallurgy 12, no. 3(2026):2980-2995. <https://doi.org/10.1007/s40831-026-01494-z>
- 4- Moghaddam, Homa Etemadi, and Mahsa Baghban Salehi. "Self-Healing and pH-Responsive Agar/ $\kappa$ -Carrageenan Hydrogels for Dynamic Burn Wound Dressings:

- Conventional versus Microwave-Assisted Synthesis." *Materials Today Communications* (2026): 115841. <https://doi.org/10.1016/j.mtcomm.2026.115841>
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  - 6- Harighi, Hooman, Anahita Kazemi Kia, Mahsa Baghban Salehi, and Hamid Reza Mortaheb. "Dual-Function Carboxymethyl Cellulose Hydrogel for Soil Moisture/Fertilizer Control: Agrochemical Loading and Release study on pH-Responsive platform." *Journal of Environmental Chemical Engineering* (2026): 121130.
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  - 11- Firouz, Maedeh Mohammadi, Mahsa Baghban Salehi, Mona Baniasadi, and Babak Mokhtarani. "Artemisia ciniformis-enhanced multifunctional hydrogel with ionic conductivity and anti-freezing properties for wearable strain sensors." *International Journal of Biological Macromolecules* (2025): 147892.
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  - 13- Dastjani-Farahani, Raziye, Naser Asadzadeh, Arezou Jafari, Mohsen Vafaie-Sefti, and Mahsa Baghban-Salehi. "Enhancing xanthan hydrogels for water shutoff treatment in sandstone oil reservoirs through core flooding and CCD approach." *Scientific Reports* 15, no. 1 (2025): 14016.
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- 16- Harighi, Hooman, Mahsa Baghban Salehi, Vahid Taghikhani, and Mojtaba Mirzaei. "Optimizing Environmentally-Friendly oil Recovery: Synergies of Imidazolium-Based ionic liquids and carboxymethylcellulose hydrogels." *Journal of Molecular Liquids* 415 (2024): 126320.
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- 29- Saghandali, F., Salehi, M. B., & Taghikhani, V. (2023). " Investigating the Performance of Co [AM-AMPS-MALEIC-AAC]/PEI-MBA Nanocomposite Hydrogel in Sand Control from Oil Reservoirs". *Journal of Petroleum & Petrochemical Engineering Journal*. 7(2): 000347.
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