

سوابق تحصیلی

- دکتر از دانشگاه ایالتی لوئیزیانای آمریکا، اقیانوس‌شناسی و علوم سواحل، (۱۳۹۱)
- کارشناسی ارشد از دانشگاه تهران، سازه‌های دریایی، (۱۳۸۵)
- کارشناسی از دانشگاه صنعتی اصفهان، ریاضی کاربردی، (۱۳۸۳)
- کارشناسی از دانشگاه صنعتی اصفهان، مهندسی عمران، (۱۳۸۲)

سوابق کاری

- هیئت علمی دانشگاه علم و صنعت ایران، دانشکده عمران، ۱۳۹۱ تاکنون
- هیئت علمی همکار پژوهشگاه ملی اقیانوس‌شناسی و علوم جوی، ۱۳۹۱ تا ۱۳۹۴
- انستیتوی مطالعات سواحل دانشگاه لوئیزیانای آمریکا، ۱۳۸۶-۱۳۹۰
- شرکت سازه‌پردازی ایران، ۱۳۸۵-۱۳۸۶، ۱۳۹۳
- همکاری با شرکت آب‌نیرو

علايق پژوهشی

- شبیه‌سازی ریاضی امواج دریا، جریان‌های دریایی، رسوب و محیط زیست
- پردازش داده‌های موج، جریان و رسوبات اندازه‌گیری شده در دریا
- آلودگی هوا و شبیه‌سازی آلاینده‌ها
- ساخت ابزارهای پایش
- کاربردهای محیط زیستی سنجش از دور ماهواره‌ای
- آموزش مهندسی و تحلیل داده‌های آن

فعالیت‌های اجرایی

- معاون آموزشی دانشگاه علم و صنعت ایران، ۱۴۰۴ تاکنون
- رئیس پژوهشکده محیط زیست و توسعه پایدار، ۱۴۰۳
- معاون فناوری پارک علم و فناوری دانشگاه ۱۴۰۳-۱۴۰۲
- مدیر امور آموزش دانشگاه، ۱۳۹۷-۱۴۰۰
- معاون آموزشی دانشکده عمران، ۱۳۹۷
- مدیر تحصیلات تکمیلی دانشکده عمران، ۱۳۹۵-۱۳۹۷
- مدیر فرهنگی دانشکده عمران، ۱۳۹۴-۱۳۹۵
- مدیر اجرایی دانشکده عمران ۱۳۹۳
- همکاری با خانه ریاضیات اصفهان و برگزاری مسابقات نورنمنت شهرها و مسابقات الیمپاد از سال ۱۳۸۰
- همکاری با خانه ریاضیات تهران در طراحی و اجرای مسابقه پیکار ریاضی شهری (پرش) برای سه دوره

مقالات علمی -

پژوهشی بین‌المللی

اخیر

- M. Goodarzi, S.M. Siadatmousavi, E. Jabbari, Ebrahim, 2026. :Numerical Investigation of Bed Slope and Proximity Effects on the Dynamics of Inclined Dense Jets”, Environmental Fluid Mechanics, 26, 2, 18
- S.A. Seyedalipour, S.M. Mahmoudof, S.M. Siadatmousavi, 2026. “A new breaker index introducing a two-phase nearshore dissipation condition”, Ocean Engineering, 353, 124742
- E. Shad, U.R. Kamalian, S.M. Siadatmousavi, A. Bakhtiari, 2026.; “Propagation Characteristics of Coastal-Trapped Waves on the Continental Shelf of Caspian Sea”, Regional Studies in Marine Science, 104787
- K. Marouei, S.M. Siadatmousavi, I. Aryanfar, S. Asadi, 2026 “On the comparative hydraulic performance of submerged rubble-mound and geotextile breakwaters; An experimental

study", *Ocean Engineering*, 343, 123404, 2026

- S. M. Mahmoudof, A. Sobhani, H. Bagheri, N. Bagheri, **S.M. Siadatmousavi**, 2025. "Determination of upper cutoff frequency for pressure data correction in engineering wave analysis based on field measurements", *Ocean Engineering*, 342
 - M. Keshtgar, **S.M. Siadatmousavi**, Seyed Mostafa; Azizpour, Jafar; 2025. "The vertical profiles of the tidal constituents and bed-induced dissipation of tidal signals in the Persian Gulf", *Deep Sea Research Part II: Topical Studies in Oceanography*, 105528
 - M.H. Seyed-Djawadi, M.R. Nikoo, A. Shahmiri, **S.M. Siadatmousavi**, S. Al-Saadi, A. Sana, G. Bruss, 2025. "Blind-Flux, Bathymetry-Enhanced Stacking Ensemble for Rapid Wave-Energy Flux Prediction Along Oman's Coast", *Renewable Energy*, 124086
 - M. Rahimian, Mohsen; **S. M. Siadatmousavi**, M. Saeedi, 2025., "WRF-lake model adjusted for a shallow hypersaline lake", *Climate Dynamics*, 63, 7, 284
 - D.N. Khudhair, H. Zwain, Haider, **S. M. Siadatmousavi**, M. Hosseinzadeh, , 2025. "Sensitivity analysis of operational parameters on excess sludge reduction in moving bed biofilm reactor (MBBR) system upgraded to integrated fixed film activated sludge (IFAS) process based on GPS-X environment", *Water Environment Research*, 97, 6, e70084
 - N. Bahrami, **S.M. Siadatmousavi**, A. Khosh Kholgh, 2025. "Algorithmic optimisation of ship routes for improved fuel economy and reduced carbon footprint across varying sea states", *Ships and Offshore Structures*, 1-13
 - Z. Mozafari, R. Noori, S.M. Bateni, C. Jun, D. Kim, M.J. Saravani, D. Naderian, **S.M. Siadatmousavi**, H. Afzalimehr, J. Azizpour, 2025 "Impact of climatic factors on eutrophication in the World's largest lake", *Ecological Indicators*, 175, 113497
 - N. Bahrami, **S.M. Siadatmousavi**, 2025 " Prediction of coastline evolution using remote sensing and deep learning approach; Case study of the Northwest of the Persian Gulf", *Marine Geology*, 480, 107472
 - A. Shahmiri, M.H. Seyed-Djawadi, **S.M. Siadatmousavi**, 2025. "AI-driven forecasting of harmful algal blooms in Persian Gulf and Gulf of Oman using remote sensing", *Environmental Modelling & Software*, 185, 106311
 - M. Keshtgar, Morteza; **S. M. Siadatmousavi**, 2025. "Sensitivity analysis of WRF model to physical parameterization for the characterization of coastal and offshore wind patterns in Caspian Sea region", *Theoretical and Applied Climatology*, 156, 1, 10, Springer Vienna Vienna
 - F. Kolahdouzan, H. Afzalimehr, **S.M. Siadatmousavi**, O. Yagci, 2024. "Experimental study on flow around horizontal multiple pipelines laid on the erodible seabed surface", *Journal of Ocean Engineering and Marine Energy*, 10, 3, 555-571, Springer International Publishing Cham
 - A. Bakhtiari, E. Shad, **S.M. Siadatmousavi**, 2024, "Exploring submesoscale eddies in the southern Caspian sea: A focus on rudsar and Sefidrud regions", *Deep Sea Research Part I: Oceanographic Research Papers*, 208, 104316, Pergamon
 - A. Sobhani, **S. M. Siadatmousavi**, A. Mehdiinia, 2024. Surface microplastics dynamics in the Persian Gulf and Arabian Sea using numerical modelling and CYGNSS satellite estimations. *Marine Environmental Research*, 202, p.106749.
 - A. Mojtahedi, M., Beyramzadeh, **S. M. Siadatmousavi**, M., Mao, 2024. The role of different wind input, whitecap dissipation and quadruplet wave-wave interaction terms in wave evolution in Lake Michigan. *Ocean Engineering*, 307, p.118149.
 - N. Bahrami, **S. M. Siadatmousavi**, 2024. Ship voyage optimisation considering environmental forces using the iterative Dijkstra's algorithm. *Ships and Offshore Structures*, 19(8), pp.1173-1180.
 - M., Rahimian, **S. M. Siadatmousavi**, M. Saeedi., 2024. "The influence of Urmia Lake desiccation on an extreme snowfall event: A case study using the WRF-Lake model." *Atmospheric Research* 303: 107327.
 - **S.M., Siadatmousavi**, M. Y., Kalourazi, A., Kosh Kholgh, 2024. Improving the WAVEWATCH-III wave model results using data assimilation in the Persian Gulf. *Ocean Engineering*, 300, 117460.
 - S. T. Hosseini , **S. M. Siadatmousavi**, E., Stanev, J., Pein, C., Schrum, C. 2024. Transitions Between Different Estuarine States in a Low-inflow Estuary of Arid Coasts (Mond Estuary, Persian Gulf) with a Focus on Freshwater Lenses. *Regional Studies in Marine Science*, 103525.
 - M. Mahdian., R. Noori, M. M. Salamattalab, E. Heggy, S. M. Bateni, A. Nohegar, M. Hosseinzadeh, **S. M. Siadatmousavi**, M. R. Fadaei, and S. Abolfathi. 2024. Anzali wetland crisis: Unraveling the decline of Iran's ecological gem. *Journal of Geophysical Research: Atmospheres* 129, no. 4 (2024): e2023JD039538.
 - N. Bahrami, **S.M. Siadatmousavi**, 2023. Ship voyage optimisation considering environmental forces using the iterative Dijkstra's algorithm. *Ships and Offshore Structures*, 1-8.
 - Z. Mozafari, R. Noori, **S.M. Siadatmousavi**, H. Afzalimehr, J. Azizpour, 2023. Satellite-Based Monitoring of Eutrophication in the Earth's Largest Transboundary Lake. *GeoHealth*, 7(5), e2022GH000770.
-

-
- F. Kolahdouzan, H. Afzalimehr, **S.M. Siadatmousavi**, A. Jourabloo, S. Ahmad, 2023. The Effect of Pipeline Arrangement on Velocity Field and Scouring Process. *Water*, 15(7), 1321.
 - M. Mahdian, M. Hosseinzadeh, **S.M. Siadatmousavi**, Z. Chalipa, M. Delavar, M. Guo, S. Abolfathi, R. Noori, 2023. "Modelling impacts of climate change and anthropogenic activities on inflows and sediment loads of wetlands: case study of the Anzali wetland." *Scientific Reports* 13, no. 1: 5399.
 - M. Rahimian, M. Beyramzadeh, **S.M. Siadatmousavi**, M.N. Allahdadi, 2023. Simulating Meteorological and Water Wave Characteristics of Cyclone Shaheen. *Atmosphere*, 14(3), 533.
 - D.N. Khudhair, M. Hosseinzadeh, H. Zwain, S.M. Siadatmousavi, A. Majdi, A. Mojiri, 2023. Upgrading the MBBR Process to Reduce Excess Sludge Production in Activated Sludge System Treating Sewage. *Water*, 15(3), 408.
 - A. Naderi, **S.M. Siadatmousavi**, 2023. Extreme value analysis for waves in the Persian Gulf: Skill assessment of different methods for a fetch-limited basin. *Regional Studies in Marine Science*, 102812.
 - S. M. Mahmoudof, **S. M. Siadatmousavi**, M.L. Takami, 2022. Numerical study of cross-shore variations of bound super-harmonics over a single sandbar system. *Ocean Engineering*, 266, 112695.
 - A. M. Faris, H. Zwain, M. Hosseinzadeh, H. S. Majdi, **S.M. Siadatmousavi**, 2022. Start-up and operation of novel EN-MBBR system for sidestreams treatment and sensitivity analysis modeling using GPS-X simulation. *Alexandria Engineering Journal*, 61(12), 10805-10818.
 - M. Beyramzadeh, **S. M. Siadatmousavi**, 2022. Skill assessment of different quadruplet wave-wave interaction formulations in the WAVEWATCH-III model with application to the Gulf of Mexico. *Applied Ocean Research* 127 (2022): 103316.
 - D. Shariatmadari, **S.M. Siadatmousavi**, C. Ershadi. 2022. Numerical study of power production from tidal energy in the Khuran Channel and its feedback on background hydrodynamics. *Acta Oceanologica Sinica*, 41(5), 173-182.
 - M. Rahimian, M. Beyramzadeh, **S.M. Siadatmousavi**, 2022. The Skill Assessment of Weather and Research Forecasting and WAVEWATCH-III Models During Recent Meteotsunami Event in the Persian Gulf. *Frontiers in Marine Science*. Online at: <https://doi.org/10.3389/fmars.2022.834151/full>
 - A.M. Faris, H.M. Zwain, M. Hosseinzadeh, **S.M. Siadatmousavi**, 2022. Modeling of novel processes for eliminating sidestreams impacts on full-scale sewage treatment plant using GPS-X7. *Scientific Reports* 12 (1), 1-17
 - AM Faris, H. M. Zwain, M. Hosseinzadeh, H. Sh. Majdi, **S.M. Siadatmousavi**, 2022. "Start-up and operation of novel EN-MBBR system for sidestreams treatment and sensitivity analysis modeling using GPS-X simulation", *Alexandria Engineering Journal*, 61(12): 10805-10818
 - E Shad, UR Kamalian, **S.M. Siadatmousavi**, 2022, Coastal trapped waves in the southern Caspian Sea. *Journal of Great Lakes Research*. Online at: <https://doi.org/10.1016/j.jglr.2022.02.002>
 - S.M. Mahmoudof, **S.M. Siadatmousavi**, S.A. Seyedalipour, 2021. Experimental study of bound triad interactions across a dissipative surf zone under different wave breaking conditions. *Journal of Ocean Engineering*, 235, 109427.
 - A. Alipour, **S.M. Siadatmousavi**, F. Jose, 2021. Numerical simulation of waves in the Caspian Sea: calibration and verification of the observation-based source terms. *Journal of Ocean Dynamics*, 71 (6), 699-714.
 - M. Yaghoobi Kalourazi, **S.M. Siadatmousavi**, A. Yeganeh-Bakhtiary, F. Jose, 2021. WAVEWATCH-III source terms evaluation for optimizing hurricane wave modeling: A case study of Hurricane Ivan. *Oceanologia*. 63(2), 194-213.
 - M. Beyramzade, **S.M. Siadatmousavi**, M. H. Derkani, 2021. Calibration and skill assessment of two input and dissipation parameterizations in WAVEWATCH-III model forced with ERA5 winds with application to Persian Gulf and Gulf of Oman. *Journal of Ocean Engineering*, 219, 108448.
 - M. Seyedvalizadeh, H. Alizadeh Ketek Lahijani, **S.M. Siadatmousavi**, 2021. South Caspian vertical circulation during rapid sea level rise and fall. *Caspian Journal of Environmental Sciences* 19 (1), 19-29
 - S.A. Seyedalipour, **S.M. Siadatmousavi**, S.M. Mahmoudof, 2020. Improving the Simulation of Depth-induced Breaking in the Third-Generation Wave Model SWAN. *Journal of Marine Engineering* 16 (31), 53-64
 - S. Shirinmanesh, M. Sadrinasab, A. Karimi, **S.M. Siadatmousavi**, 2020. Determination of suspended load concentration in Hendijan Delta using remote sensing technique. *Journal of Watershed Engineering and Management*, 11 (4), 999-1015
 - S.M. Mahmoudof, **S.M. Siadatmousavi**, 2020. Bound infragravity wave observations at the Nowshahr beaches, southern Caspian Sea. *Journal of Applied Ocean Research*, 98, 102122.
 - M. Yaghoobi Kalourazi, **S.M. Siadatmousavi**, A. Yeganeh-Bakhtiary, F. Jose, 2019.
-

Simulating tropical storms in the Gulf of Mexico using analytical models. *Oceanologia*, 62 (2), 173-189.

