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انتشارات:

Brief Biography: More than 25 years of research in the field of river engineering and hydraulic and mathematical and physical modeling of issues related to hydrodynamic, sediment and water quality in water bodies
Fields of Expertise and Research Interests:
River Engineering, physical and numerical modeling, hydraulic flow and sediment, water quality problems
Educational Record:
B.Sc.: Civil engineering M.Sc.: Civil Engineering (Water Engineering) Ph.D.: PhD on civil engineering (Hydraulic structures)
Work Experiences and positions: Academic staff of water research institute
Achievements, Awards and Scholarships:
Memberships:
Patents and Publications:

خلاصه شرح حال علمی: بیش از ۲۵ سال پژوهش در عرصه مهندسی رودخانه و هیدرولیک و مدلسازی ریاضی و فیزیکی مسائل مرتبط با هیدرولیک جریان آب و رسوب و کیفیت در بدنه های آبی
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دستاوردها و جوایز:
عضویت در مجامع علمی و صنعتی:
انتشارات و اختراعات:

## Journals

- Taheria O.M., Kolahdoozan, M., Faghihirad, S., Experimental study of bed level changes in the vicinity of flap-type wave energy converters, *Ships and Offshore Structures*, (2022), <https://doi.org/10.1080/17445302.2022.2062158>
- Ghasempour feremi,A., Faghihirad, S., Kavianpour, M.R., Experimental Investigation of Nappe Flow Domain on Stepped Spillways. *Amirkabir Journal of Civil Engineering*, 53(10) (2022).
- Faghihirad, S., Khodayari, M., Kilanehei, F. Numerical Modeling of Phosphorus Advection and Diffusion in Water Bodies (Case study: Sefidrood River), *Amirkabir Journal of Civil Engineering*, 53(12) (2022).
- Aghaei, Y., Kilanehei,F., Faghihirad, S. Nazari-Sharabian, M., Dynamic Pressure at Flip Buckets of Chute Spillways: A Numerical Study, *International Journal of Civil Engineering* volume 20, pages421–432 (2022)
- Barzagari ,F., Faghihirad, S. and Taghi Dastorani, M. Assessment and development of an optical technology for continuous suspended sediment measurement in aquatic environments, *Amirkabir Journal of Civil Engineering*, 54(2) (2022).
- Faghihirad, S., Kolahdoozan, M. and Sharifimansh, H. " Economic Evaluation on Cost of River Training Works (Case Study: Qezel-Ozan River in Iran)", *International Journal of River Basin Management*, 1-6, 2019.
- Faghihirad, S., Ardalan, H., Nikkhah, A., Esfandiyarnejad, A. "Physical Simulation of Discharge Flow from Deep Conduit in Dense Reservoir (In Terms of Use in the Gotvand Dam Deep Pipe)", *Amirkabir Journal of Civil Engineering*, 52(7) (2020).
- Faghihirad, S., Lin, B. and Falconer, R.A, "3D layer-integrated modelling of morphodynamic processes near river regulated structures" , *Water Resources Management* 31 (1),(2017), 443-460
- Faghihirad, S., Lin, B. and Falconer, R.A, "Application of a 3D layer integrated numerical model of flow and sediment transport processes to a reservoir", *Water* , 7 (10) (2015) 5239-5257 ISSN 2073-4441 10.3390/w7105239
- Faghihirad, S., Mahmoudian Shoshtari, M. and Sedghi, H. "Evaluation of Groundwater Recharge during Infiltration Process Using A transfer Function Model", *International Journal of Engineering Science*, Vol. 12, No.3, 2001. (in Farsi)