

بسمه تعالی

مشخصات:

▪ حسن حاج عبداللهی

سوابق تحصیلی:

- کارشناسی: مهندسی مکانیک، گرایش تبدیل انرژی، دانشگاه شهید نیکبخت زاهدان 1385
- کارشناسی ارشد: مهندسی مکانیک، گرایش تبدیل انرژی، دانشگاه علم و صنعت ایران 1388
- دکتری: مهندسی مکانیک، گرایش تبدیل انرژی، دانشگاه علم و صنعت ایران 1392
- دوره فرصت مطالعاتی، دانشگاه دالهورزی و انتاریو، کانادا
- عضو هیئت علمی رسمی قطعی و دانشیار گروه مهندسی مکانیک دانشگاه ولی عصر (عج) رفسنجان

سوابق اجرایی و عضویت ها:

- عضو هیئت ممیزه و کمیسیون تخصصی دانشگاه ولی عصر (عج) رفسنجان
- دبیر علمی ششمین کنفرانس بین المللی فناوری و مدیریت انرژی
- بنیان گذار و رئیس انجمن انرژی استان کرمان (به اتمام رسیده)
- عضو کمیته ی اخلاق در پژوهش دانشگاه ولی عصر (عج) رفسنجان
- مدیر گروه مهندسی مکانیک دانشگاه ولی عصر (عج) رفسنجان (به اتمام رسیده)
- نماینده تحصیلات تکمیلی دانشکده فنی مهندسی دانشگاه ولی عصر (عج) رفسنجان (به اتمام رسیده)

پروژه های صنعتی و پژوهشی:

- ✓ تخمین میزان مصرف گاز در بخش های خانگی، صنعتی، نیروگاه و حمل و نقل استان کرمان در چشم انداز بیست ساله (کارفرما: شرکت گاز استان کرمان)
- ✓ بررسی و انتخاب سیستم های تولید همزمان برق و حرارت CHP. (کارفرما: سازمان توسعه برق ایران، تهران)
- ✓ طراحی مبدل حرارتی پوسته و لوله (شرکت مکانیک سیالات، اصفهان)
- ✓ طراحی و تست مبادله کن گرما برای سیستم تهویه مطبوع خودروی هیبریدی (جنرال موتورز، تورنتو، کانادا)
- ✓ پتانسیل سنجی فنی و اقتصادی تولید توان با استفاده از محرکهای مختلف تجدید پذیر در شهر جدید امیرکبیر اراک (شرکت عمران شهر جدید)
- ✓ بررسی فنی و اقتصادی جایگزینی هیتر ایستگاههای تقلیل فشار با یک بویلر و مبدل حرارتی (شرکت گاز استان مرکزی)
- ✓ بررسی تاثیر حذف هیترهای فشار قوی بر روی توان خروجی هر واحد و تعیین حداکثر توان قابل دستیابی (نیروگاه شازند)
- ✓ پتانسیل سنجی استفاده از پمپ حرارتی خورشیدی در ایران (دانشگاه اهواز).
- ✓ مدل سازی و بهینه سازی مبادله کن گرمای پره لوله از دیدگاه قانون دوم ترمودینامیک (دانشگاه اهواز).

ارائه دروس کارشناسی و ارشد:

- 1- نیروگاههای حرارتی
- 2- حرارت مرکزی و تهویه مطبوع
- 3- طراحی مبدل های حرارتی پیشرفته
- 4- انتقال حرارت
- 5- سیالات
- 6- ترمودینامیک
- 7- بهینه سازی
- 8- انرژی خورشیدی
- 9- تبرید و طراحی سیستم های سردخانه
- 10- سیستم های انرژی
- 11- برنامه نویسی به کمک کامپیوتر
- 12- مباحث منتخب در انرژی

داور مجلات *ISI*:

- Energy
- Applied Energy
- Materials & Design
- Renewable Energy
- Energy and Building
- Applied soft computing
- Journal of SpringerPlus
- Journal of Sientia Iranica
- Engineering optimization
- Heat Transfer Engineering
- Applied Thermal Engineering
- Journal of Cleaner Production
- Heat Transfer-Asian Research
- Journal of Building Engineering
- International Journal of Exergy
- Thermal analysis and calorimetry
- Alexandria Engineering Journal
- Desalination and Water Treatment
- Neural Computing and Applications
- International Journal of Refrigeration
- Energy Conversion and Management

- International Journal of Ambient Energy
 - International Journal of Thermal Science
 - International Journal of Hydrogen Energy
 - Thermal Science and Engineering Progress
 - Chemical Engineering Research and Design
 - Journal of Thermophysics and Heat Transfer
 - International Journal of Chemical Engineering
 - International journal of mechanical engineering
 - International Journal of Heat and Mass Transfer
 - Transport Phenomena in Nano and Micro Scales
 - International Journal of Greenhouse Gas Control
 - Journal of Engineering and Technological Sciences
 - Multidiscipline Modeling in Materials and Structures
 - International Communications in Heat and Mass Transfer
 - International Journal of Electrical Power & Energy System
 - Heat transfer-Asian Pacific Journal of Chemical Engineering
 - International Journal of Engineering Science and Technology
 - Journal of the Brazilian Society of Mechanical Sciences and Engineering
-

سخنران سمینار:

- ✓ سمینار مدل سازی و بهینه سازی چند هدفه مبدل های حرارتی، دانشگاه شهید عباسپور، تهران
- ✓ سمینار انرژی های تجدید پذیر، دانشگاه ولیعصر رفسنجان و دانشگاه آزاد بهبهان
- ✓ بررسی اقتصادی سیستم های انرژی، دانشگاه ولیعصر رفسنجان

-
- ❖ پژوهشگر برتر بین الملل و شاخه فنی دانشگاه (سال 97)
 - ❖ پژوهشگر برتر استان کرمان در شاخه ی فنی و مهندسی (سال 96)
 - ❖ پژوهشگر برتر جوان دانشگاه (سال 94)
 - ❖ پژوهشگر برتر دانشکده ی فنی و مهندسی (سال 95)
 - ❖ جوان برتر رفسنجان در حوزه ی پژوهش، در اولین مراسم تجلیل از جوانان نمونه شهرستان

راهنمای پروژه پایانی (منتخب):

- ❖ مدل سازی و بهینه سازی فنی اقتصادی سیستم سرمایش خورشیدی
- ❖ مدل سازی و بهینه سازی فنی اقتصادی مبادله کن گرمای صفحه پره با استفاده از الگوریتم ژنتیک
- ❖ مدل سازی و بهینه سازی سیکل های ارگانیک رانکین (ORC)
- ❖ مدل سازی و آنالیز حساسیت نیروگاه حرارتی منتظر قائم
- ❖ مدل سازی و بهینه سازی فنی اقتصادی سیستم گرمایش از کف در ساختمان
- ❖ مدل سازی و بهینه سازی سیستم های HVAC در بیمارستان
- ❖ تهیه نرم افزاری برای محاسبه بار های حرارتی و برودتی و طراحی سیستم های تاسیساتی
- ❖ مدل سازی و بهینه سازی سیستم تولید همزمان برق و حرارت صنعتی (CHP)
- ❖ مدل سازی و بهینه سازی کندانسور حرارتی پوسته و لوله

مقالات :

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H- Index =25 ***i10 index=36***

[1]- Hassan Hajabdollahi, Pouria Ahmadi, Ibrahim Dincer "Modeling and Multi-Objective Optimization of Plain Fin and Tube Heat Exchanger Using Evolutionary Algorithm" International Journal of Thermophysics and Heat Transfer 3 (2011) 424-431.

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----- مقالات چاپ شده در کنفرانس ها -----

[1]- Hadi Karrabi, Hassan Hajabdollahi, Thermodynamic modeling and Multi- Objective exergetic Optimization of combined Heat and Power System using evolutionary algorithm, Proceedings of ASME International Mechanical Engineering Congress & Exhibition IMECE 2010.

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زمینه های تحقیقاتی:

- طراحی و بهینه سازی سیستم های انرژی
- محاسبات نرم و الگوریتم های بهینه سازی ابتکاری و فرا ابتکاری از جمله DE, GA, RGA, NSGA-II, PSO, MOPSO, ICA
- انرژی های نو و تجدید پذیر (خورشیدی، بادی، ژئوترمال)
- شناسایی سیستم و شبکه های عصبی مصنوعی
- طراحی و بهینه سازی مبادله کن های گرما از جمله: پوسته لوله، پره لوله، صفحه پره، واشردار، کندانسور، ریژنراتور و ریکوپراتور
- تکنولوژی پینچ
- نیروگاههای حرارتی (بخار، گازی و ترکیبی)
- طراحی و بهینه سازی سیستم های تولید پراکنده و تولید همزمان برودت، حرارت و توان (CHP و CCHP)
- طراحی سیستم های حرارت مرکزی و تهویه مطبوع
- انتقال حرارت و حل عددی چند بعدی در سطوح گسترش یافته و گرمایش از کف
- طراحی و بهینه سازی سیکل های جدید (ارگانیک دیزل، ترکیبی توربین گاز و پیل سوختی، پمپ حرارتی خورشیدی، گرمایش و سرمایش خورشیدی، ارگانیک رنگین خورشیدی، خشک کن پسته خورشیدی)
- ممیزی انرژی و تحلیل اکسرژی-انتروپی

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