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### صادق تابع جماعت

استاد

دانشکده مهندسی هوافضا

گروه آموزشی آیرودینامیک - جلوبرنده‌ها

### رساله‌های دکتری

| # | عنوان پایان‌نامه   | توسط                                  | تاریخ دفاع   |
|---|--|---------------------------------------|--------------|
| 1 | فرایند اشتغال ناشی از تزریق جت   | سعیدرضا زادسیرجان و صادق تابع جماعت   | بهمن<br>1400 |
| 2 | بررسی پدیده اشغال در مشعل های چرخشی  | مسعود عیدی عطارزاده و صادق تابع جماعت | دی<br>1396   |
| 3 | مطالعه عددی شعله های نفوذی توربولنت با استفاده از مدل‌سازی flamelet در روش شبیه سازی گردابه های بزرگ | بابک کشیر تلوری و صادق تابع جماعت     | آذر<br>1394  |
| 4 | مطالعه تجربی و عددی تغییر رژیم شعله متان - اسپژن در مقیاس مزو و میکرو                                | محمدرضا بیگ محمدی و صادق تابع جماعت   | آذر<br>1394  |
| 5 | مدلسازی سینتیک شیمیایی بر روش شبکه عصبی مصنوعی در جریانهای واکنشی مغشوش بر اساس LES                  | پیام سینایی و صادق تابع جماعت         | تیر<br>1394  |
| 6 | شبیه سازی عددی سه بعدی احتراق جت صفحه ای هیدروژن با استفاده از روش LES                               | یاشار آفرین و صادق تابع جماعت         | دی<br>1391   |
| 7 | اثر دینامیک جریان و مکانیزم شیمیایی برشعله در رژیم احتراقی HITAC                                     | امیر مردانی و صادق تابع جماعت         | دی<br>1389   |

### پایان‌نامه‌های کارشناسی ارشد

| # | عنوان پایان‌نامه | توسط | تاریخ دفاع |
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| 1400 مهر       | یاسین ازادی و صادق تابع جماعت                 | طراحی ؛ محفظه احتراق میکرو توربین بر پایه ی سوخت های زیستی                          | 1  |
| 1400 تیر       | زهرا وثوقی و صادق تابع جماعت                  | تحلیل و طراحی سیستم میکروتوربین بر پایه سوخت بیو                                    | 2  |
| بهمن<br>1398   | سروش شیخ بگلو و صادق تابع جماعت               | مطالعه تجربی ویژگیهای احتراقی سوخت های هیدروکربنی با استفاده از راکتورهای مقیاس مزو | 3  |
| بهمن<br>1397   | علی زرگرباشی و صادق تابع جماعت                | مطالعه تجربی دینامیک شعله پیش آمیخته جزئی در محفظه احتراق با ابعاد مزو              | 4  |
| اسفند<br>1396  | سعید عزیزابادی فراهانی و صادق تابع جماعت      | مطالعه ، طراحی و ساخت یک نمونه مشعل LOW NOX   | 5  |
| بهمن<br>1396   | بهرام محمدزاده و صادق تابع جماعت              | مطالعه تجربی احتراق پیش آمیخته جزئی متان در ابعاد خرد                               | 6  |
| 1396 مهر       | صالح بشیری و صادق تابع جماعت                  | طراحی و ساخت تراستر الکتریکی برای تعیین وضعیت و انتقال مداری ماهواره                | 7  |
| 1395 تیر       | مریم یگانه و صادق تابع جماعت                  | بررسی تجربی دینامیک شعله در محفظه احتراق میکرو                                      | 8  |
| بهمن<br>1394   | اسماعیل محمدی خلف بادام و صادق تابع جماعت     | مطالعه ی تحلیلی احتراق در محفظه های میکرو   | 9  |
| بهمن<br>1393   | نفیسه جلالتیان و صادق تابع جماعت              | مطالعه ی مکانیزم تولید NOx در شعله های چرخشی  | 10 |
| بهمن<br>1393   | زینب جوانبخت قهفرخی و صادق تابع جماعت         | مطالعه عددی پایداری شعله متان در محفظه احتراق میکرو                                 | 11 |
| بهمن<br>1393   | رضا باقری و صادق تابع جماعت                   | مطالعه تجربی تولید آلاینده ها در احتراق هایکات(HiCot)                               | 12 |
| خرداد<br>1393  | یاسمن فارسیانی و صادق تابع جماعت              | مطالعه ی تجربی پایداری شعله متان در محفظه ی احتراق میکرو                            | 13 |
| شهریور<br>1392 | محمدابراهیم فتحی آذرخوارانی و صادق تابع جماعت | شبیه سازی عددی شعله مغشوش غیر پیش مخلوط   | 14 |
| بهمن<br>1391   | مصطفی الطافی و صادق تابع جماعت                | مطالعه تجربی باز سوزی NOX در شرایط hicot  | 15 |
| بهمن<br>1391   | سروش صرافان صادقی و صادق تابع جماعت           | مطالعه تجربی احتراق در محفظه های میکرو  | 16 |
| 1391 تیر       | محمدحسن مقدسی و صادق تابع جماعت               | مطالعه احتراق اکسیژن در شرایط HICOT   | 17 |
| بهمن<br>1390   | عماد رجبی وینچه و صادق تابع جماعت             | مطالعه عددی اثر چرخش جریان بر پایداری شعله نفوذی                                    | 18 |
| 1390 مهر       | سیدکامبیز عبدالله و صادق تابع جماعت           | طراحی و ساخت تست استند احتراق HTAC و انجام آزمایش های اولیه                         | 19 |
| 1390 مهر       | فرشاد نوروش و صادق تابع جماعت                 | کنترل فرآیند HiTAC بر پایه مدل های کاهش یافته CFD                                   | 20 |
| 1388 دی        | جلال زروندی و صادق تابع جماعت                 | مطالعه عددی احتراق در محفظه میکروبرنر   | 21 |
| 1388 دی        | امیر روحانی و صادق تابع جماعت                 | مطالعه تجربی اثر پیچش جریان بر پایداری شعله از دیدگاه کاربردی                       | 22 |
| اسفند<br>1386  | سجاد رنجبران و صادق تابع جماعت                | مطالعه عددی اشتعال شبکه ای از قطرات سوخت در هوا                                     | 23 |
| اسفند<br>1386  | بابک کشیرتلوری و صادق تابع جماعت              | مطالعه عددی و تجربی اثر رقیق سازی هواو پیش گرم بر شعله نفوذی                        | 24 |
| اسفند<br>1385  | محمدرضا بیگ محمدی و صادق تابع جماعت           | مطالعه تجربی و تحلیلی فناوری HRS  | 25 |

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| بهمن<br>1384  | امیر مردانی و صادق تابع جماعت     | توسعه آزمایشگاه سوخت و احتراق و مطالعه احتراق شعله نفوذی                                 | 28 |
| اسفند<br>1380 | غلامعباس سربندی و صادق تابع جماعت | مطالعه عددی جرقه آرایبی از قطرات سوخت در جریان   | 29 |
| دی<br>1380    | مهدی جنگی و صادق تابع جماعت       | مدلسازی پاشش سوخت به وسیله انژکتور   | 30 |

## کتاب

| # | عنوان                      | نگارندگان/ مترجمان            | کشور ناشر     | تاریخ انتشار | نسخه |
|---|----------------------------|-------------------------------|---------------|--------------|------|
|   | داده های ثبت شده در پورتال |                               |               |              |      |
| 1 | Progress in Scale Modeling | صادق تابع جماعت, تاکاشی نیوکا | United States | 1387         | 1    |

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### دروس ارائه شده

| # | عنوان درس                      | توصیف درس  | دوره سرفصل ها | درسی        |
|---|--------------------------------|--|---------------|-------------|
| 1 | Heat Transfer                  | Scientific and Engineering fundamentals of Heat Transfer   |               | Spring 2022 |
| 2 | Advanced Fuel & Combustion (I) | study of fundamentals of combustion thermodynamic, combustion kinetics and laminar and turbulent flame |               | Fall 2021   |
| 3 | Fuel & Combustion              | Teaching the fundamentals of Fuel and combustion and the applications                                  |               | Spring 2021 |

### اختراعات/ ثبت پتنت

| # | عنوان اختراع   | شماره ثبت                | کشور ثبت کننده                   | همکاران  | تاریخ ثبت  | تاریخ انقضا | داده های ثبت شده در پورتال |
|---|--|--------------------------|----------------------------------|--|------------|-------------|----------------------------|
| 1 | Double Swirl Burner                                  | US<br>2020/0063957<br>A1 | -                                | علیرضا فضل الهی قمشی, سعید عزیزآبادی فراهانی, مسعود عیدی عطارزاده, صادق تابع جماعت | 1398/11/12 | 1405/11/12  |                            |
| 2 | مشعل پیچشی دوگانه با فناوری جریان های مماسی          | 97139                    | -                                | سعید عزیزآبادی فراهانی, علیرضا فضل الهی قمشی, صادق تابع جماعت, مسعود عیدی عطارزاده | 1397/8/10  | 1416/10/30  |                            |
| 3 | استند آزمایشگاهی تست شعله در جریان های چرخشی         | 80029                    | -                                | علیرضا جوارشکیان, سروش صرافان صادقی, صادق تابع جماعت, عماد رجبی وینچه              | 1392/4/10  | 1411/12/11  |                            |
| 4 | استند آزمایشگاهی تست احتراق در محفظه های میکرو و مزو | 80027                    | -                                | صادق تابع جماعت, سروش صرافان صادقی, محمدرضا بیگ محمدی                              | 1392/4/10  | 1411/12/11  |                            |
| 5 | سیستم مشعل احتراق در هوای مافوق گرم                  | 39911                    | Iran<br>(Islamic Republic<br>(of | صادق تابع جماعت, محمدرضا بیگ محمدی   | 1386/1/12  | -           |                            |
| 6 | شیر سوئیچینگ چهار طرفه                               | 39914                    | Iran<br>(Islamic Republic<br>(of | صادق تابع جماعت, محمدرضا بیگ محمدی   | 1386/1/12  | -           |                            |