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## WORK EXPERIENCE

44 year

### معرفی‌نامه

اسماعیل ساعی‌ور ایرانی زاد ، استاد فیزیک ماده پگال دانشگاه تربیت مدرس واقع در تهران، جمهوری اسلامی ایران است. ایشان مدارج علمی هر دو مقطع لیسانس و فوق لیسانس را از دانشگاه تبریز به ترتیب در سال های ۱۳۵۴ و ۱۳۵۶ و مقطع دکتری و عضویت در امپریال کالج را در سال ۱۳۶۶ از امپریال کالج علوم و تکنولوژی دانشگاه لندن انگلستان در حوزه سینیتیک سامانه های فوتو کلونیدی دریافت کرده اند. نامبرده موفق به دریافت سه بورسیه تمصیلی از آلمان، دولت جمهوری اسلامی ایران و انستیه تمقیقاتی یونیلور انگلستان شده است. او برنده جایزه بنیاد البرز سال ۱۳۶۶ از سوی وزارتین فرهنگ و علوم به خاطر رتبه اول برگزیده از بین رتبه اول های ایران شده است. او پایه گزار سه حوزه تمقیقاتی علوم و فناوری نانو، سامانه های پیل سوختی و تولید هیدروژن آفتابی در ایران است. زمینه های تمقیقاتی مورد علاقه ایشان شامل مواد نانو سافتار، مواد دوبعدی، مواد نرم مانند بلورهای مایع، سلول های فورشیدی مساس رنگدانه ای، قطعات نورگسیل، پیل های سوختی مبادله کننده پروتون، پیل های سوختی اکسید جامد و تولید هیدروژن آفتابی است.



### تمصیلات

۱۳۶۷

دیپلم افتخار

امپریال کالج

دانشگاه لندن، لندن، انگلستان

۱۳۶۶

دکترای فیزیک

امپریال کالج

دانشگاه لندن، لندن، انگلستان

۱۳۵۶

فوق لیسانس فیزیک

دانشگاه تبریز

تبریز، ایران

۱۳۵۴

لیسانس فیزیک

دانشگاه تبریز

تبریز، ایران



## تشویقات

۱. رتبه اول فوق لیسانس و برگزیده از میان رتبه اول های کشور (۱۳۵۶).
۲. برنده جایزه علمی بنیاد فرهنگی البرز از وزارتین علوم و آموزش و پرورش (۱۳۵۶).
۳. دانشجوی برگزیده دکتری امپریال کالج از سوی انستیتو تحقیقاتی Unilever انگلستان.
۴. متفحص برگزیده Who's who in the world در بین سال های ۱۹۹۷ تا ۲۰۰۴ میلادی از سوی موسسه Marquis Who's Who.
۵. لوح تقدیر مقاله برتر ISI دانشگاه تربیت مدرس در سال ۱۳۸۵.
۶. دریافت جایزه بلورین بهترین مقاله دهمین سمپوزیوم بین المللی پیل سوختی Grove انگلستان در سال ۲۰۰۷.
۷. مقاله های داغ (Hot Paper) - در بین ۲۵ مقاله برگزیده از مجله های بین المللی معتبر ISI توسط ScienceDirect. تا سال ۱۳۹۴.



## مشاغل

- عضو هیئت علمی دانشگاه رازی (۱۳۵۶-۱۳۵۷).
- عضو هیئت علمی دانشگاه تبریز (۱۳۶۲-۱۳۶۷).
- عضو هیئت علمی دانشگاه تهران (۱۳۷۰ - ۱۳۶۷).
- عضو هیئت علمی دانشگاه تربیت مدرس (۱۳۷۰ تاکنون) و استاد بخش فیزیک.



## مسئولیتها

۱. عضو شورای پذیرش دانشجویان افرای خارجی کشور- ستاد انقلاب فرهنگی (۱۳۶۲-۱۳۶۱).
۲. عضو شورای مرکزی پذیرش دانشجویان کشور(فرمان هشت ماده ای امام خمینی(ره))- وزارت فرهنگ و آموزش عالی (۱۳۶۱-۱۳۶۲).
۳. عضو شورای مرکزی و مسئول بخش طرهما و تحقیقات دفتر مرکزی جهاد دانشگاهی (۱۳۶۲-۱۳۶۱).
۴. مدیر نفت و گاز سازمان برنامه و بودجه (۱۳۶۷-۱۳۶۸).
۵. دبیر کمیته برنامه ریزی شورای برنامه ریزی نفت و گاز پنجساله اول توسعه کشور (۱۳۶۷-۱۳۶۸).
۶. دبیر کمیته کارشناسی نفت و گاز برنامه پنجساله اول توسعه کشور (۱۳۶۷-۱۳۶۸).
۷. مسئول گروه تلفیق انرژی برنامه پنجساله اول توسعه کشور (۱۳۶۷-۱۳۶۸).
۸. معاون اداری و مالی دانشکده علوم پایه دانشگاه تهران (۱۳۶۸-۱۳۶۹).
۹. مسئول برگزاری ششمین کنفرانس فیزیک ایران با بیش از هزار و پانصد شرکت کننده (۱۳۶۸).
۱۰. معاون آموزشی دانشگاه آزاد اسلامی - واحد شمال تهران (۱۳۶۸-۱۳۶۹).
۱۱. مدیر روابط عمومی سازمان انرژی اتمی ایران (۱۳۶۸-۱۳۶۹).
۱۲. مدیر مسئول مجله انرژی اتمی (۱۳۶۸-۱۳۶۹).
۱۳. مدیر پژوهشی دانشکده علوم پایه دانشگاه تربیت مدرس (۱۳۷۳-۱۳۷۵).

۱۴. معاون آموزشی پژوهشگاه علوم و تکنولوژی دفاعی (۱۳۷۱-۱۳۷۳).
۱۵. معاون آموزشی و اطلاع رسانی مرکز تحقیقات ساختمان و مسکن (۱۳۷۳-۱۳۷۵).
۱۶. رئیس مرکز آموزشهای تخصصی مشترک صنایع دانشگاه بالتیک (۱۳۷۳-۱۳۷۵).
۱۷. مدیر پروژه پیل سوفتی سانا ( وزارت نیرو ) (۱۳۷۵-۱۳۷۶).
۱۸. مشاور انرژی معاونت پژوهشی- سازمان انرژی اتمی ایران (۱۳۷۹-۱۳۷۸).
۱۹. مشاور انرژی معاونت چرخه سوفت- سازمان انرژی اتمی ایران (۱۳۸۰-۱۳۷۹).
۲۰. مدیر پروژه فودروی پیل سوفتی شرکت ایران فودرو (۱۳۷۹-۱۳۸۲).
۲۱. معاون اداری و مالی دانشکده علوم پایه (۱۳۸۲ تا ۱۳۸۳).
۲۲. قائم مقام مرکز رشد و امدهای فناور دانشگاه تربیت مدرس (۱۳۸۲ تا ۱۳۸۳).
۲۳. رئیس مرکز رشد و امدهای فناور دانشگاه تربیت مدرس (۱۳۸۳ تا ۱۳۹۳).
۲۴. معاون پارک علم و فناوری مدرس - دانشگاه تربیت مدرس (۱۳۸۳ تا ۱۳۸۶).
۲۵. دبیر گروه علمی تحقیقاتی انرژی - سازمان بسیج اساتید کشور (۱۳۸۳ تا ۱۳۹۳).
۲۶. مدیر گروه انرژی - مرکز بررسیهای استراتژیک ریاست جمهوری (۱۳۸۵ تا ۱۳۸۷).
۲۷. عضو هیأت ممیزه کمیسیون دانشکده علوم پایه دانشگاه تربیت مدرس (۱۳۸۶ تا ۱۳۸۷).
۲۸. رئیس پارک علم و فناوری دانشگاه تربیت مدرس (۱۳۸۷ تا ۱۳۹۳).
۲۹. نماینده جمهوری اسلامی ایران در کارگروه همکاری میان دانشگاه ها و موسسات علمی، تحقیقاتی کشورهای عضو گروه G8 (۱۳۸۸-۱۳۸۹).
۳۰. قائم مقام مجری (وزیر صنایع و معادن) طرحهای صنایع نوین (۱۳۸۸-۱۳۸۹).
۳۱. رئیس انجمن علمی انرژی فورشیدی ایران (۱۳۸۹-۱۳۹۲).
۳۲. عضو هیأت امناء کانون کارآفرینان استان تهران- وزارت کار و امور اجتماعی (۱۳۸۹-۱۳۹۲).
۳۳. مدیر گروه ماده پگال بخش فیزیک دانشگاه تربیت مدرس (۱۳۹۰-۱۳۹۴).
۳۴. رئیس بخش فیزیک دانشگاه تربیت مدرس (۱۳۹۱-۱۳۹۴).
۳۵. عضو کمیته ایمنی، بهداشت و محیط زیست دانشکده علوم پایه (۱۳۹۳-۱۳۹۴).



### عضویتها

۱. عضو مدعو آکادمی علوم نیویورک (NYAS).
۲. عضو جامعه بین المللی انرژی فورشیدی (ISE).
۳. عضو انجمن بین المللی انرژی هیدروژن (IAHE).
۴. عضو انجمن بین المللی آموزش انرژی فورشیدی (IASEE).
۵. رابط انجمن بین المللی آموزش انرژی فورشیدی در ایران (IASEE).
۶. عضو جامعه بین المللی بنیاد انرژی (IEF).
۷. عضو همبستگی جهانی محیط زیست (CMDC).

۸. عضو کمیته علم و فناوری مجمع تشفیص مصلمت نظام.
۹. عضو گروه مهندسی انرژی وزارت علوم، تمقیقات و فناوری.
۱۰. عضو انجمن فیزیک ایران.
۱۱. عضو انجمن شیمی و مهندسی شیمی ایران.
۱۲. عضو انجمن بلورشناسی ایران.
۱۳. مؤسس و عضو انجمن انرژی فورشیدی ایران.
۱۴. عضو انجمن متفصمان محیط زیست ایران.
۱۵. عضو انجمن نانو فناوری ایران.
۱۶. مؤسس و عضو انجمن انرژی باد ایران.



### فعالیت‌های آموزشی

- مقطع دکتری: فیزیک ماده پگال، فیزیک سافت‌های نانو، فناوری نانو مواد، نانوبیو تکنولوژی، فیزیک بلورهای مایع، ابر شاره ها و ابر رساناها
- مقطع کارشناسی ارشد: فیزیک حالت جامد پیشرفته ۱ و ۲، مکانیک کوانتوم پیشرفته، نانو فیزیک، فیزیک نیمه هادیها، موضوعات ویژه (پیل های سوختی، پیل های فورشیدی).
- مقطع کارشناسی: ترمودینامیک، فیزیک مدرن، فیزیک پایه ۱، شیمی فیزیک ۳، استاتیک، دینامیک



### فعالیت‌های پژوهشی

- تجزیه نوری عوامل شیمیایی جنگی – دانشگاه تهران. (۱۳۶۸)
- پروژه فیزیک پلاسما – دانشگاه تهران. (۱۳۶۸)
- طرح جامع سیستمهای فتوولتائیک – سازمان پژوهشهای علمی صنعت ایران. (۱۳۶۹)
- آشکار سازهای مادون قرمز – پژوهشگاه علوم و تکنولوژی دفاعی. (۱۳۷۳)
- طراحی و تست پیل سوختی ۲۵۰ کیلوواتی (به علت مشکلات مدیریتی سانا ناتمام ماند) – وزارت نیرو. (۱۳۷۵)
- طراحی و سافت خودروی پیل سوختی – گروه صنعتی ایران خودرو (به علت مشکلات مالی، پروژه تا طراحی مفهومی پیل سوختی ۱ kW ادامه یافت). (۱۳۷۵)
- نیروگاههای نسل چهارم – وزارت نیرو. (۱۳۸۶)
- بررسی فنی – اقتصادی کاربردهای نانو تکنولوژی در زمینه کاهش آلاینده های تولید شده در نیروگاهها و مفاظت بیشتر از محیط زیست – وزارت نیرو. (۱۳۸۷)
- بررسی و ارائه راهکارهای اجرایی برای انتقال تکنولوژیهای نو پدید از سراسر جهان به داخل کشور – وزارت نیرو. (۱۳۸۷)
- بررسی مدل های انرژی و تدوین استراتژی انرژی کشور – سازمان بسیج اساتید کشور. (۱۳۸۷)
- طراحی و سافت کاتد LSCF پیل سوختی اکسید جامد – وزارت نیرو (۱۳۸۹).
- طراحی و سافت ماژول جستجوگر – سازمان صنایع هوایی ایران (۱۳۸۹).

- طراحی و سافت زیر سامانه های جستجو گر اپتیکی پهباد (۱۳۹۱)
- ممیزی علم، فناوری و نو آوری انرژی خورشیدی (۱۳۹۱)



### زمینه های پژوهشی مورد علاقه

۱. بررسی نانو ساختاری، طراحی و سافت پیل های سوختی نوع PEM و SOFC.
۲. استفاده از نانو کاتالیست ها برای افزایش کارائی سیستم های پیل سوختی.
۳. ابرفازن های نانو ساختار.
۴. سلول های خورشیدی نانو ساختار نسل سوم و چهارم.
۵. دیودهای نور گسیل هیبریدی (H-LED) - بررسی خواص فیزیکوشیمیایی نانو نیمرساناهای نور گسیل هیبریدی.
۶. اسپینترونیک (Spintronics) - ترابرد الکتریکی وابسته به اسپین در نانو ساختارهای پایه کربنی با خواص نیمرسانایی.
۷. بلورهای مایع (Liquid Crystals) - بررسی خواص اپتیکی بلورهای مایع آلانئیده با نانو ذرات و رنگینه ها.
۸. سنتز و بررسی مشخصه های فیزیکی نانو ذرات مغناطیسی FePt و نیمرساناهای ZnO, ZnS, CdS, و ...
۹. تولید هیدروژن آفتابی بکمک نانو ذرات نیمرساناها.
۱۰. ذخیره سازی هیدروژن بکمک نانو مواد.
۱۱. آشکارساز های مادون قرمز MCT, VOx, و ...



### همکاری با مجلات علمی پژوهشی

- مدیر مسئول نشریه علمی انرژی خورشیدی وابسته به انجمن انرژی خورشیدی ایران.
- عضو هیأت تحریریه نشریه Iranica Journal of Energy and Environment (IJEE)
- عضو هیأت تحریریه نشریه Journal of Solar Energy Research (JSER)



### PUBLICATIONS

#### I. International Journals

1. W. J. Albery, G. T. Brown, J. R. Darwent, and E. Saievar-Iranizad, Time – Resolved Photo-redox Reactions of Colloidal Semiconductors, J.Chem. Soc Faraday Trans. I , (Vol. 81, pp. 1999-2007. (1985).
2. W. J. Albery, Philip N. Bartlett,t C. Paul Wilde and J. R. Darwent (E. Saievar-Iranizad), A General Model for Dispersed Kinetics in Heterogeneous Systems, J.Am. Chem. Soc, Vol. 107, pp. 1854-1858. (1985).
3. E. Saievar-Iranizad, Application of Laser in chemistry, J. of Chemistry of Roshd, Application of Laser in chemistry, J. of Chemistry of Roshd, Vol, 4, No. 16, pp. 34-39, (1988).
4. Saievar-Iranizad, Advanced Technology for Fuel Cell Vehicles, Int. J. of Renewable Energy, WREC, pp.2473-2476. UK, (1998).
5. J. Mirzazadeh, E. Saievar-Iranizad, L.Nahavandi "An analytical approach on effect of diffusion layer on ORR for PEMFCs", J. Power Sources, Vol. 131, pp. 164-199 (2004). IF; 6.227
6. R. Roshandel, B. Farhanieh and E. Saievar-Iranizad, The Effects OF Porosity distribution variation on PEM Fuel Cell Performance, Renewable Energy, (ScienceDirect's TOP25 Hottest Articles), Vol. 30, pp. 1557-1572, (2005).

7. Sh. Jamali, E. Saievar-Iranizad and S. Farjami Shayesteh, "Investigations on chemically capped CdS nanoparticles", *Journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, (IF 0.504), Vol 37, No.5, pp. 381-386, (2007).
8. Sh. Jamali, E. Saievar-Iranizad and S. Farjami Shayesteh, "Synthesis, Optical and Structural Characterization of CdS nanoparticles" *International Journal of Nanoscience and Nanotechnology*, Vol 3, No. 1, pp. 53-62, (2007).
9. M. H. Majles Ara, Z. Dehghani and E. Saievar-Iranizad, Synthesis, Characterization and Single-Beam Z-Scan Measurement of The Third-Order Optical Nonlinearities of ZnO Nano-Particles, *International Journal of Modern Physics B (IJMPB)*, Vol:22 No: 18/19 pp.3165- 3171, (2008).
10. M. H. Majles Ara, Z. Dehghani and E. Saievar-Iranizad, Characterization and Nonlinear Optical Properties of CdS Nano-Particles, *International Journal of Nanotechnology Volume 6, Numbers 10-11*, pp. 1006-1014, (2009).
11. E. Saievar-Iranizad, the Role of Fuel Cell in Energy Economizing and Reduction of Environmental Pollution, *Solar Energy Magazine*, Vol. 14, No. 49, pp. 4-7 (2009).
12. G. R. Argi and E. Saievar-Iranizad, the Effect of Calcinations' Temperature on the Size and Morphology of Zinc Oxide Nanoparticles, *Amirkabir Journal of Dcience and Technology*, Number 70-h, pp. 61-66, (2009).
13. H. Majles Ara Z. Dehghani E. Saievar-Iranizad, Characterization and Nonlinear Optical Properties of CdS Nanoparticles, *Int. J. Nanotechnol.* Vol. 6/10/11, pp. 1006-1014, (2009).
14. R Farghadan, A Saffarzadeh, E Saievar Iranizad, Spin transport through a triangular graphene flake, *Journal of Physics: Conference Series* Vol. 248, pp. 012014, (2010).
15. M. Molaei, E. Saievar-Iranizad, Z. Dehghani and Taghavinia, Investigation the Nonlinear Optical Responses of Thermochemically Synthesized CdS Nanoparticles, *Journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Vol. 41, pp. 224-227, (2011).
16. M. Molaei, E. Saievar Iranizad, M. Marandi, and N. Taghavinia, Investigation of the photoluminescence properties of thermochemically synthesized CdS nanocrystals, *AIP ADVANCES* Vol. 1, No. 012113, pp. 1-7, (2011).
17. M. Molaei; E. Saievar Iranizad; Z. Dehghani; N. Taghavinia; M. H. Majles Ara , Investigation of the Photoluminescence Properties and Nonlinear Optical Responses of Thermochemically Synthesized CdS Nanoparticles, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, (IF 0.504), Vol. 41, No. 2, pp. 224 – 227, (2011).
18. Z. Dehghani, S.Nazerdeylami, E.Saievar-Iranizad, M.H.MajlesAra, Synthesis and investigation of nonlinear optical properties of semiconductor ZnS nanoparticles, *Journal of Physics and Chemistry of Solids (IF 1.632)*, Vol. 72, pp. 1008–1010, (2011).
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\* These reports have been prepared by members of the fuel cell project in IKCO under supervision of Dr. E. Saievar-Iranizad

#### V Books

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