Curriculum Vitae

Personal Information:

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Date of Birth: 23, 8, 1972
Place of Birth: Hidaj, Zanjan, Iran
Citizenship: Iran

اطلاعات شخصی:

نام و نام خانوادگی: علی مرسلی

آدرس: ایران- تهران- دانشگاه تربیت مدرس

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تولد: 1351/6/1 - هیدج- زنجان-ایران

➢ Biography:

Ali Morsali was born in the Hidaj, Zanjan, Iran. He attended Tarbiat Moallem University, Tehran and earned a B.S. degree in Chemistry. He received his MS degree in Inorganic Chemistry in Zanjan University, Zanjan. He then attended graduate school at Tarbiat Modares University, Tehran and earned his Ph.D. in 2003 and he began his independent career at the Tarbiat Modares University where he has been a Professor in the Department of Chemistry since 2012. In 2016, he spent six months as a sabbatical period in Prof. Joseph Hupp's and Prof. Omar Farha's group, Northwestern University. He also spent the other six months as a sabbatical period in Prof. Omar Yaghi's group, Berkeley in 2017. Also recently in summer of 2019, he spent three months as a guest scientist at Düsseldorf University in Prof. Christoph Janiak group. His research interests are primarily in the area of inorganic chemistry, coordination polymers and metal–organic frameworks.

➢ زندگی نامه:

علی مرسالی در سال 1351 در هیدج ، زنجان ، ایران متولد شد. وی دوران کارشناسی خود را در رشته شیمی در دانشگاه تربیت معلم تهران سپری کرد. او مدرک کارشناسی ارشد خود را در رشته شیمی معدنی از دانشگاه زنجان شهر زنجان دریافت کرد. وی سپس دوره تحصیلات تکمیلی خود را در دانشگاه تربیت مدرس تهران گذراند و درجه دکترای خود را در رشته شیمی معدنی کسب نمود. در سال 1382 فعالیت مستقل خود را در دانشگاه تربیت مدرس آغاز کرد و از سال 1391 به عنوان استاد گروه شیمی مشغول به فعالیت شد. در سال 2016 ، وی یک فرصت مطالعاتی شش ماهه در گروه پروفسور جوزف هاپ و گروه عمر فرها در دانشگاه نورث وسترن آمریکا گذراند. وی همچنین در سال 2017 شش ماه دیگر را در یک فرصت مطالعاتی دیگر در گروه پروفسور عمر یاغی ، در دانشگاه برکلی آمریکا گذراند. همچنین در تابستان سال 2019 ، او سه ماه به عنوان دانشمند میهمان در دانشگاه دوسلدورف آلمان در گروه پروفسور کریستوف یانیاک گذراند. علایق تحقیقاتی او در درجه اول شیمی معدنی ، پلیمرهای کئوردینانسیونی و چارچوبهای فلز- آلی است.

- تحقیق و آموزش

1- انتشار بیش از 700 مقاله در مجلات بین المللی

2- انتشار بیش از 60 مقاله در سمینارهای ملی و بین المللی

3- انتشار 5 ثبت اختراع

4- نگارش دو فصل از کتاب بین المللی

1. **Alkaline-earth metal carbonate, hydroxide and oxide nano-crystals synthesis methods, size and morphologies consideration**

Authors: Mohammad Amin Alavi, Ali Morsali, 2011, (book Title: Nanocrystal) (Publisher: InTech)

2. Chapter 6-Chiral MOFs for Asymmetric Catalysis

Author(s): Kayhaneh Berijani, Ali Morsali**, 2024**

(book Title: Catalysis in Confined Frameworks: Synthesis, Characterization, and Applications**) (Publisher: John Wiley)**

5- انتشار چهار کتاب داخلی(انتشارات دانشگاه تربیت مدرس) :

-نانو شیمی سوپرامولکولها (چاپ چهارم)

-ترکیبات متخلخل (چاپ سوم)

-چهار چوب های فلز-آلی متخلخل (چاپ سوم)

-کاربرد های چارچوب های فلز-آلی (چاپ سوم)

6- انتشار دو کتاب بین المللی (انتشاراتی وایلی)

1. **Functional Metal-Organic Frameworks: Structure, Properties and Applications**

Author(s): Ali Morsali, Sayed Ali Akbar Razavi; 2021; ISBN: 978-1-119-64043-1; 2021; Scrivener Publishing LLC (Publisher: John Wiley & Sons).

2. **Metal-Organic Frameworks with Heterogeneous Structures**

Author(s); Ali Morsali, Kayhaneh Berijani,; 2021; ISBN: 1119792045, 9781119792048 ; Scrivener Publishing LLC (Publisher: John Wiley & Sons).

➢ افتخارات و جوایز:

➢ Awards and Ranks:

1-دانشجوی نمونه کشوری در سال 1380

1. Distinguished student of country, (Selected of Ministry of Science, research and Technology), 2001,Tehran, Iran

2-رتبه دوم جشنواره خوارزمی سال 1387 در زمینه فناوری نانو

2. 21th Khwarizmi International Award, Feb. 5th, 2008, Tehran, Iran

3-برنده جایزه TWAS

3. TWAS Prize' winner

4-دانشمند منتخب کشورهای اسلامی سال1388

4. Elected scholar of Islamic Countries in 2009

5-دانشمند منتخب ISI **سال1389 و هم اکنون**

5. ISI elected scholar in 2010 until now

6-پژوهشگر برگزیده جشنواره نانو فناوری سال 1388

6. Distinguished Researcher Award in Nano Technology festival, 2009, Tehran, Iran

7- رتبه دوم جشنواره نانو فناوری سال 1389

7. Second place award in Nano Technology festival, 2010, Tehran, Iran

8- رتبه اول جشنواره نانو فناوری سال1390

8. First place award in Nano Technology festival, 2011, Tehran, Iran

9- رتبه اول جشنواره نانو فناوری سال 1391

9. First place award in Nano Technology festival, 2012, Tehran, Iran

10- پر استناد ترین نویسنده ایرانی در نمایه های بین المللی سال 1390

10. The most cited Iranian author of the 2011in international profile (Selected of Ministry of Science, research and Technology), 2011,Tehran, Iran)

11-پژوهشگر برگزیده دانشگاه تربیت مدرس سالهای 1400-1382

11. Tarbiat Modares University Distinguished Researcher between 2003-2020, Tehran, Iran.

12- محقق نمونه انجمن فناوری نانو در سال 1390

12. Distinguished researcher of Nano Technology Association, 2011, Tehran, Iran

13- محقق نمونه انجمن فناوری نانو در سال 1391

13. Distinguished researcher of Nano Technology Association, 2012, Tehran, Iran

14- استاد برجسته شیمی معدنی(منتخب انجمن شیمی ایران)

14. Distinguished Professor of Inorganic Chemistry (Selected of Iranian Chemical Society)

15- تالیف کتاب برتر سال 1389 با عنوان"نانو شیمی ابر مولکول ها"

15. Best Book of 2010 as "Superamolecules nano chemistry"

16- رتبه دوم جشنواره نانو فناوری سال 1392

16. Second place award in Nano Technology festival, 2013, Tehran, Iran

17- رتبه سوم جشنواره نانو فناوری سال 1393

17. Third place award in Nano Technology festival, 2014, Tehran, Iran

18- رتبه چهارم جشنواره نانو فناوری سال 1394

18. Fourth place award in Nano Technology festival, 2015, Tehran, Iran

19- رتبه سوم جشنواره نانو فناوری سال 1395

19. Third place award in Nano Technology festival, 2016, Tehran, Iran

20- رتبه پنجم جشنواره نانو فناوری سال 1396

20. Fifth place award in Nano Technology festival, 2017, Tehran, Iran

21- رتبه چهارم جشنواره نانو فناوری سال 1398

21. Fourth place award in Nano Technology festival, 2019, Tehran, Iran

22-نفر دوم انتخابی فدراسیون سرامدان علمی ایران سال 1399

22. Second place award in Iran Science ElitesFederation festival, 2020, Tehran, Iran

23-نفر اول انتخابی فدراسیون سرامدان علمی ایران سال 1400

23. First place award in Iran Science ElitesFederation festival, 2021, Tehran, Iran

24-نفر اول انتخابی فدراسیون سرامدان علمی ایران سال 1401

24. First place award in Iran Science ElitesFederation festival, 2022, Tehran, Iran

25-نفر دوم انتخابی فدراسیون سرامدان علمی ایران سال 1402

25. Second place award in Iran Science ElitesFederation festival, 2020, Tehran, Iran

26- استاد نمونه کشوری –منتخب وزارت علوم1402

26. Distinguished professor of country, (Selected of Ministry of Science, research and Technology), 2023,Tehran, Iran

27-دانشمند پراستناد 1/. درصد منتخب ISI **سال 2023**

27. Highly Cited Researcher (Selected by ISI elected scholar in 2023)

28- پر استناد ترین نویسنده ایرانی در نمایه های بین المللی سال 1402

28. Distinguished Researcher 2023 (Selected of Ministry of Science, research and Technology), 2023,Tehran, Iran)

29 -سر دبیر مجله scopus به زبان انگلیسی وابسته به انجمن شیمی تحت عنوان:
Nnochemistry Research از سال 2016

28. Editor-in-Chief of Nanochemistry Research, from 2016

➢ طرح های پژوهشی پایان یافته داخلی

➢ National Completed research projects

1- بررسی و مطالعه امکان سنجی جایگزینی بنتونیت با ژل نمکی (آتاپلژیت) یا مواد سنتزی دیگر به منظور ساخت پیل حفاری در حفره 24 یا 26 اینچ چاه-های پارس جنوبی (شرکت ملی نفت- تاریخ اتمام تابستان 1388).

کارفرما: **شرکت ملی نفت و گاز پارس جنوبی**

1- Study and feasibility study of replacement of bentonite with salt gel (Ataplugite) or other synthetic materials for construction of drilling cell in 24 or 26 inch wells of South Pars (National Petroleum Company - End of Summer 2009). Client: National Gas Company

مبلغ طرح: 100میلیون تومان

2- امکانسنجي توان استفاده از نانو هاليدهاي فلزي در بارورسازي ابرهاي سرد

کارفرما: **شرکت منابع اب تهران-اتمام طرح 1392**

مبلغ طرح: 5میلیون تومان -اتمام

3- امکان سنجی کابرد چارچوب های فلز-آلی در جذب و تبدیل کربن دی اکسید به مواد قابل استفاده

کارفرما : پژوهشگاه نیرو-طرح 1 ساله استاد اتمام طرح 1401

مبلغ طرح: 20میلیون تومان - اتمام

4- امکان سنجی ساخت کپسول های حاوی چارچوب های فلز-آلی (MOFs) جهت ذخیره سازی گاز طبیعی و مقایسه تکنیکی شارژ و دشارژ کپسول های دارای MOFs با کپسول های CNG و LNG(مطالعه موردی بیش از 500 نوع MOF) **کارفرما : شرگت گاز مازندران-اتمام شده 1397-**

مبلغ طرح: 60میلیون تومان -اتمام شده

5- رصد تکنولوژی استفاده از جاذب های چارچوب های فلز-آلی برای شیرین سازی و حذف ترکیبات گوگردی و مرکاپتانها از گاز طبیعی و ترسیم نقشه راه

کارفرما: **پژوهشگاه نفت (انستیتو فراورش گاز)** -اتمام شده 1401

مبلغ طرح: 80میلیون تومان -اتمام شده

6- تولید چارچوب فلز-آلی ایده آل جهت ذخیره گاز متان در مقیاس پایلوت و همچنین ساخت مخزن ANG مربوطه و بررسی ویژگی های آن.

کارفرما: **شرکت گاز مازندران، ساری**- اتمام شده 1401 (طرح برگزیده دانشگاهی سال 1401 از طرف وزارت علوم)

مبلغ طرح:300میلیون تومان -اتمام شده

7-بیش از 10 طرح پژوهشی به اتمام رسیده از مسیر صندوق حمایت از پژوهشگران کشور.

- **طرح های پژوهشی بین المللی**
- **International research projects**

1-پروسکایت معدنی جفت شده با کربن نیترید گرافیتی ($g-C_3N_4$) و چهارچوب های فلز-آلی (MOFs) بعنوان فوتوکاتالیست برای کاهش CO_2

مرکز مطالعات و همکاری های بین المللی - برنامه جندی شاپورفراخوان سال1397

به اتمام رسیده در سال 1400-

-دانشگاه همکار: دانشگاه لیل فرانسه-استاد همکار پورفسور بخروب

- **Inorganic Perovskite coupled with graphitic carbon notride ($g-C_3N_4$) and Metal-Organic Framework (MOFs) as photocatalysts for wastewater treatment**
  - مبلغ طرح: 30میلیون تومان -اتمام شده

2- غشاهای چارچوب های آلی و فلز-آلی برای جداسازی فاز مایع و گاز

2-Porous Metal-Organic and Organic Frameworks Membrane for Gas Phase and Liquid Phase Separation, (**International Joint Research Proposal no. 99009822-IRAN-CHINA)**

-دانشگاه همکار: دانشگاه فوجیان چین-استاد همکار پورفسور تیان فو

مبلغ طرح: 545میلیون تومان --اتمام شده

➢ ثبت اختراعات داخلی

➢ National Patents

1- تولید نانو ذرات نقره با استفاده ازپیش ماده پلیمرهای کوردیناسیونی- اداره کل ثبت شرکتها و مالکیت صنعتی- 1387

1- Synthesis of silver nanoparticles using precursors of cordial polymers

2-سنتز نانو مواد معدنی با مورفولوزیهای متفاوت از پیش ماده های پلیمرهای کوردیناسیونی- اداره کل ثبت شرکتها و مالکیت صنعتی-1387

2- Synthesis of nano-minerals with different morphologies from precursors of cordial polymers

3-به کارگیری امواج فراصوت در تهیه الیاف ابریشم حاوی نانوذرات هالید نقره- مقاوم در برابر اثرات باکتریایی، قارچی و جلبکی-اداره کل ثبت شرکتها و مالکیت صنعتی-1388

3- Application of ultrasound in the preparation of silk fibers containing silver halide nanoparticles

4-تولید صنعتی در حد پایلوت ماف HKUST -تاییدیه نانومقیاس از طرف ستاد نانو

5-تولید صنعتی در حد پایلوت ماف UiO-66 -تاییدیه نانومقیاس از طرف ستاد نانو

6-تولید صنعتی در حد پایلوت ماف MOF-303 -تاییدیه نانومقیاس از طرف ستاد نانو

7-تولید صنعتی در حد پایلوت ماف MIL-100(Fe) -تاییدیه نانومقیاس از طرف ستاد نانو

8-تولید صنعتی در حد پایلوت ماف MOF-801 -تاییدیه نانومقیاس از طرف ستاد نانو

➢ برخی مقالات برتر برگزیده از بین بیش از 650 مقاله چاپ شده:

➢ Some of Top Selected over 650 Published papers:

- ❖ چاپ 2 مقاله در ژورنال Journal of the American of Chemistry JACS (IF=15.41)
- ❖ چاپ 10 مقاله در ژورنال ACS Applied Materials & Interfaces (IF=9.22)

- ❖ چاپ 40 مقاله در Inorganic Chemistry (IF=5.16)
- ❖ چاپ 5 مقاله در Angewandte Chemie International Edition (IF=15.31)
- ❖ چاپ 19 مقاله در مجله Coordination Chemistry Reviews (IF=22.31)
- ❖ چاپ 3 مقاله در مجله Green Chemistry (IF=10.80)
- ❖ چاپ 2 مقاله در مجله Chemical Communication (IF=6.22)
- ❖ چاپ 17 مقاله در مجله Journal of Material Chemistry A (IF=12.70)
- ❖ چاپ 2 مقاله مجله ACS Catal (IF=13.08)
- ❖ چاپ 10 مقاله در مجله Crystal Growth and Design (IF=4.07)
- ❖ چاپ 15 مقاله در مجله Dalton Transactions (IF=4.30)
- ❖ چاپ 80 مقاله در مجله Ultrasound Sonochemistry (IF=7.49)
- ❖ چاپ 1 مقاله در مجله Chemical Society Reviews (IF=54.56)
- ❖ چاپ 1 مقاله در مجله Energy and Envirnmental Sciences (IF=38.56)

Publications:

1. A. K. Hall, J. M. Engelhard, A. Morsali,* A. A. Soudi, A. Yanovsky,
   Bonds and lone pairs in the flexible coordination sphere of lead (II),
   crystal engineering communication
   2000, 2, 82-85. https://doi.org/10.1039/B001972K

2. A. R. Mahjoub,* A. Morsali,
   Crystal structure of mesonitrato-O,O'-bis(1,10-phenantroline)isothiocyanatolead(II), C25H16N6O3PbS,
   Zeitschrift für Kristallographie-New Crystal Structures **2001**, 216, 635-636.
   https://doi.org/10.1524/ncrs.2001.216.14.635

3. A. Morsali, A. Tadjarodi, R. Mohammadi, A. R. Mahjoub,*
   Crystal structure of bis(4, 4'-bithiazole)bismuth(III) trinitrate hemihydrate, $Bi(C_6H_4N_2S_2)_2(NO_3)_3.0.5H_2O$,
   Zeitschrift für Kristallographie-New Crystal Structures **2001**, 216, 401-402.
   https://doi.org/10.1524/ncrs.2001.216.14.401

4. R. Mahjoub,* A. Morsali,

A Dimeric Mixed-Anions Lead(II) Complex: Syntheses and Structural Characterization of $[Pb_2(BTZ)_4(NO_3)](ClO_4)_3$,{BTZ=4,4′–Bithiazole},
Chemistry Letters **2001**, 30:12, 1234-1235. https://doi.org/10.1246/cl.2001.1234

5. Morsali, A. Ramazani,* F. Jamali, F. Gouranlou,

Crystal structure of diaqua-bis[N-(2-pyridyle)carbonylaniline]zinc(II) diperchlorate, $Zn(C_{12}H_{16}N_2O)(H_2O)_2(ClO_4)_2$,
Zeitschrift für Kristallographie-New Crystal Structures **2001,** 216, 639-640.
https://doi.org/10.1524/ncrs.2001.216.14.639

6. A. Morsali, A. Ramazani,* F. Jamali, F. Gouranlou,

Crystal structure of pyridine-2-carbaldehyde thiosemicarbazonium perchlorate, $(C_7H9N_4S)(ClO_4)$, *Zeitschrift für Kristallographie-New Crystal Structures* **2001**, 216, 641-642.
https://doi.org/10.1524/ncrs.2001.216.14.641

7. A. Morsali,* M. Payheghader, M. S. Salehi,

A New Polymer of Mixed-Anions Complex $[Pb(phen)(O_2CCH_3)(O_2NO)]_n$ (phen=1,l0–phenanthroline),
Zeitschrift für anorganische und allgemeine Chemie **2002**, 628, 12-14.
https://doi.org/10.1002/1521-3749(200201)628:1%3C12::AID-ZAAC12%3E3.0.CO;2-Q

8. A. R. Mahjoub,* A. Morsali,

Syntheses and characterization of lead(II) salts with 4,4́-bithiazole ligand: X-ray crystal structure of $[(BTZ)_2Pb(NO_3)_2]$ and $[(BTZ)Pb(SCN)_2]_n$ (a new polymeric compound),
Polyhedron **2002**, 21, 197-203. https://doi.org/10.1016/S0277-5387(01)00986-X

9. R. Mahjoub,* A. Morsali, M. R. Poorheravi and E. Shams,

Crystal structure of 4,4′, 5,5′- tetraphenyle-2,2′-bithiazole, $C_{30}H_{20}N_2S_2$,
Zeitschrift für Kristallographie-New Crystal Structures **2002**, 217(JG), 79-80.
https://doi.org/10.1524/ncrs.2002.217.jg.97

10. A. Ramazani,* A. Morsali, F. Jamali, F. Gouranlou, A. R. Jalilian,

Crystal structure of N-[3-(2,4-dimethyle-1,3-thiazol-yl)-5-(methylesulfanyl)-4H-1,2,4-triazol-4-yl]phenyle-N,N-dimethylamine hydrate, $C_{16}H_{19}N_5S_2 . 0.5H_2O$,
Zeitschrift für Kristallographie-New Crystal Structures **2002**, 217(1), 74-76.
https://doi.org/10.1524/ncrs.2002.217.1.74

11. A. Ramazani,* A. Morsali, F. Jamali, F. Gouranlou, A. R. Jalilian, and A. Momeni-Movahhed,

Crystal structure of 4-[4-dimethylamino)phenyl]-5-(2,4-dimethyl-1,3-thiazol-5-yl)-2,4-dihydro-3H-1,2,4-triazol-3-thione,$C_{15}H_{17}N_5S_2$

Zeitschrift für Kristallographie-New Crystal Structures **2002**, 217, 149-150. https://doi.org/10.1524/ncrs.2002.217.jg.149

12. A. Ramazani,* A. Morsali, F. Jamali, F. Gouranlou,

Crystal structure of bis[5-methyl-1-(2-pyridyl)pyrazol-3-carboxamide]-nitratozinc(II) nitrate perchlorate monohydrate, $[Zn(C_{10}H_{10}N_4O)_2NO_3][(NO_3)_{0.6}(ClO_4)_{0.4}].H_2O$, an unusual zinc(II) complex,
Zeitschrift für Kristallographie-New Crystal Structures **2002**, 217, 228-230. https://doi.org/10.1524/ncrs.2002.217.jg.228

13. A. Ramazani,* N. Noshiranzadeh, S. Kaffashy, A, Morsali, A. Jamali, F. Gouranlou,

Crystal structure of dimethyl 3H-naphtho[2,1,b]pyran-2,3-dicarboxylate, $C_{17}H_{14}O_5$,
Zeitschrift für Kristallographie-New Crystal Structures **2002**, 217, 231-232. https://doi.org/10.1524/ncrs.2002.217.jg.231

14. R. Mahjoub,* A. Morsali,

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