رزومه

اطلاعات شخصی:

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تاریخ تولد: 1350

موقعیت علمی: دانشیار شیمی تجزیه، پژوهشکده فناوری های پاک – آزمایشگاه دستگاهوری و طیف سنجی - پژوهشگاه شیمی و مهندسی شیمی ایران

آدرس : تهران- کیلومتر 17 اتوبان کرج- بلوار پژوهش- پژوهشگاه شیمی و مهندسی شیمی ایران
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تحصیلات

مقطع	محل تحصیل	تاریخ	عنوان رساله
دکتری شیمی تجزیه	دانشگاه تهران	1386	طراحی وساخت اسپکترومتر ترمال لنز- لیزری و بکار گیری آن و اسپکتروفتومتر آشکار ساز آرایه ای خطی- فیبر نوری برای اندازه گیری آنالیت در فاز با قیمانده از روشهای پیش تغلیظ
کارشناسی ارشد شیمی تجزیه	مرکز پژوهش های شیمی و مهندسی شیمی ایران	1376	گونه شناسی آنتیموان با استفاده از ستون آلومینا و اسپکترومتر جذب اتمی
کارشناسی شیمی کاربردی	دانشگاه تبریز	1373	

زمینه های مورد علاقه در تحقیق:

اسپکتروسکوپی تجزیه ای
اسپکتروسکوپی نانو ذرات
دستگاهوری در تجزیه شیمیائی
لیزر اسپکتروسکوپی
میکروچیپ و میکروچیپ الکتروفورز
روش های پیش تغلیظ در تجزیه شیمیائی

فعالیت های علمی و صنعتی:

الف) طرح های علمی - پژوهشی

	Title	***Contractor***	***Duration***	***Date***	***State***
1	Design and fabrication of dual channel microchip for chemical analysis	CCERCI	12 months	2016	Done
2	Design and fabrication of single channel microchip for thermal lens microscopy	CCERCI	12 months	2015	Done
3	Design & Construction of Thermal Lens Microscopy (TLM)	INSFO	24 months	2012	Done
4	Development of Thermal Lens Microscopy (TLM) for chemical analysis	CCERCI	12 months	2011	Done
5	Laser induced thermal lens spectrometry using variable cell position for analysis of high and low concentration samples	CCERCI	8 months	Sep 2010	Done
6	Design and construction of microphotometer for microvolume samples	CCERCI	10 months	Nov 2009	Done
7	Design and instrumentation of laser induced thermal lens spectrometer (LI-TLS) for trace analysis	CCERCI	12 months	May 2009	Done
8	Design of material analysis laboratory (Central laboratory)	Niroo Research Institute	5 months	May 2001	Done

		(NRI)			
9	Speciaction of antimony using combined flow injection system FI(Alumina Column)-HG-AFS for trace analysis	CCERCI	18 months	Oct 2000	Done

ب) طرح های صنعتی

	Project Title	***Contractor***	***Duration***	***Date***	***State***
1	Implementation and measurement of fluorescence on a series of fluorescence compounds	Department of Green Technologies	6 months	2016	Done
2	Total Polyaromatic Hydrocarbon (TPH) determination in Persian gulf samples	Department of environment	10 months	2004	Done
3	Quantitative and Qualitative assessment of "clean-up" effect on the analysis of TPH in marine sediment	Department of environment	10 months	2004	Done
4	Determination of PAHs in the Persian Gulf ecosystem using molecular flourescence spectrometry	Department of environment	10 months	2004	Done
5	Implementation of simultaneous determination of protein-fat-moisture in milk powder samples using MLR and PLS by NIR spectrometry	Pegah milk industries Complex	8 months	2003	Done

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3. **N. Shokoufi**, L. Bahari Nikoo, Syntesis and evaluation of nanoparticles of mercury dithizonate complex in ionic liquid/water media, No. 71130, 2011.
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5. **N. Shokoufi**, Design and construction of Polychromator using array detection technology (CCD based), 71132, 2011.
6. **N. Shokoufi**, S. Shokoufi, Design and construction of data acquisition and control systems of array detector, 71131, 2011.
7. **N. Shokoufi**, Design and construction of tradespeople Laser-Induced Thermal lens Spectrometer (LI-TLS), No. 58518, 2009.
8. **N. Shokoufi**, S. Samadzadeh, Design and construction of Photometer based semiconductor devices, No. 58519, 2009.
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10. **N. Shokoufi**, M. Shokoufi, Design and construction of hardware-software system of chromatography, 48005, 2008.

طرح هایی که به فناوری و تولید رسیده است:

	عنوان فعالیت	سال	محل ارائه	مشتریان
1	طراحی وساخت دستگاه فلئورسانس – فیبر نوری	1395	شرکت دانش بنیان	دانشگاهها -پژوهشگاهها
2	طراحی و ساخت دستگاه رامان – فیبر نوری	1395	شرکت دانش بنیان	دانشگاهها -پژوهشگاهها
3	طراحی و ساخت دستگاه نانودراپ اسپکتروفتومتر	1393	شرکت دانش بنیان	دانشگاهها
4	طراحی و ساخت اسپکتروفتومتر با آشکار ساز آرایه ای	1391	مرکز رشد پژوهشگاه	دانشگاهها-پژوهشسراها
5	طراحی و ساخت اینترفیس دستگاه های آنالیز	1380	فعالیت فناورانه	مراکز صنعتی-آزمایشگاهی

طرح هایی که به فناوری رسیده است:

1- **طراحی و ساخت میکروسکوپ ترمال لنز TLM** **1392**

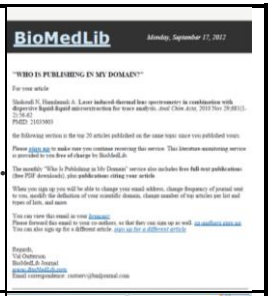
2- **طراحی و ساخت دستگاه TLS** **1389**

3- **طراحی و ست آپ سیستم FI-HG-AFS** **1380**

کسب رتبه برتر :

1- **طرح برتر کشوری – طراحی و ساخت دستگاه اسپکتروفتومتر با آشکار ساز آرایه ای – 1391**
2- **پژوهشگر برتر – پژوهشگاه شیمی و مهندسی شیمی ایران – 1391**
3- **رتبه دوم جشنواره نانو – ساخت و ارائه محصول : دستگاه اسپکتروفتومتر -1394**
4- **طرح برگزیده – نمایشگاه ساخت ایران – طراحی و ساخت طیف سنج رامان - 1396**
5- **طرح برتر استانی – ساخت دستگاه اسپکتروفتومتر -1369**

مقالات پراستناد:

1	**Top Cited Author:** Shokoufi N, Hamdamali A: **Laser induced-thermal lens spectrometry in combination with dispersive liquid-liquid microextraction for trace analysis.** *Anal Chim Acta*; 2010 Nov 29;681(1-2):56-62 **BioMedLib, 2012.**	
2	**Top Cited Author:** Fiber optic-linear array detection spectrophotometry in combination with dispersive liquid–liquid microextraction for simultaneous preconcentration and determination of palladium and cobalt, **Analytica Chimica Acta, 597, 2007, 349-353** **As a Top-50 most cited articles 2005-2009,** **Elsevier 2010.**	

انتشارات:

الف) کتاب

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ب) مقالات در مجلات بین المللی

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4. Mojtaba Amiri, Ali Mohammad Haji Shabani, Shayessteh Dadfarnia, **Nader Shokoufi**, Behnam Hajipour, Sodeh Sadjadi, Carbon dots doped by nitrogen and sulfur for dual-mode colorimetric and fluorometric determination of Fe^{3+} and histidine and intracellular imaging of Fe^{3+} in living cells, Microchimica Acta, 2020, 187, 562. doi.org/10.1007/s00604-020-04512-3.

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مقالات ارائه شده در مجلات علمی داخلی:

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1. **N. Shokoufi**, A. Hamdamali, Development of a variable design of Laser induced - Thermal lens spectrometry for low and high sensitivity in chemical analysis, Advanced Laser Technologies (ALT'10), 11-16 Sep, 2010, Egmond aan Zee, Netherland.
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3. - Thermal Lens Spectrometry after cloud point extraction for the determination of trace amounts of palladium, EUROanalysis XIV, 9-14 Sept, 2007, Antwerp, Belgium. -16 Sep, 2010, Egmond aan Zee, Netherland.

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5. K. Kargosha, **N. Shokoufi**, J. Azad, Flow-injection speciation of Sb(III) and Sb(V) in natural waters by alumina column and hydride generation atomic florescence spectrometry, International symposium on the enviromental and analytical chemistry (ISEAC), 17-21 Jun, 2002, Plymouth, UK.

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2. **Nader Shokoufi**, Samira vaziri, Enhanced thermal lens effect using surface plasmon resonance of gold nanoparticle for detection of fluorescence molecules, 25 th ICS Seminar of Analytical Chemistry, 3-5 Sep ,2018, Tabriz, Iran.
3. **Nader Shokoufi**, Behnaz Abbasgholi, Determination of Single Stranded DNA using gold nanoparticle as a label by Photo Thermal Lens Microscopy in Microfluidic Chip, 25 th ICS Seminar of Analytical Chemistry, 3-5 Sep ,2018, Tabriz, Iran.
4. **Nader Shokoufi**, Shafigh Nouri Hajibabab, Mehri Zamani, Dual wavelength thermal lens spectroscopy as a detection system in microchip for determination of mercury after rotative liquid-liquid microextraction, 25 th ICS Seminar of Analytical Chemistry, 3-5 Sep ,2018, Tabriz, Iran.
5. **Nader Shokoufi**, Shafig Nouri, The third-order nonlinear optical properties of Gold Nanoparticles-Methylene Blue conjugation, 25 th ICS Seminar of Analytical Chemistry, 3-5 Sep ,2018, Tabriz, Iran.
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8. **Nader Shokoufi**, Mehri Zamani, Behnaz Abbasgholi Nejad Asbaghi, Rotative liquid-liquid microextraction combined with nanodrop-fiber opticlinear array detection

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9. Behnaz Abbasgholi Nejad Asbaghi, Shafigh Nouri, **Nader Shokoufi**, Protein determination using laser induced-thermal lens spectrometry, 24 th ICS Seminar of Analytical Chemistry, 30 Aug-1 Sep, 2017, Tabriz, Iran.
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11. **Nader Shokoufi**, Ebrahim Mirabdollah, Analysis of Ni^{2+} and Pb^{2+} by microchip electrophoresis and thermal lens microscopy, 23 th seminar of analytical chemistry, 30 Aug -1 Sep, 2016, Tehran, Iran.
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13. Sara Adeleh, **Nader Shokoufi**, Colorimetric Butanethiol vapor sensing based on Gold Nanoparticle immobilized on glass slide by digital color analysis, 23 th seminar of analytical chemistry, 30 Aug -1 Sep, 2016, Tehran, Iran.
14. **Nader Shokoufi**, Sara Adeleh, Butanethiol vapor detection in kerosene and gasoline by gold nanoparticle immobilized on glass slide Surface as Sensor, 23 th seminar of analytical chemistry, 30 Aug -1 Sep, 2016, Tehran, Iran.
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19. **Nader Shokoufi**, Atefeh Abbasi Ahd, Kazem Kargosha, Ebrahim Mirabdollah, Femtoliter Scale Detection of Salmon Calcitonin by an Invert Thermal Lens Microscope, 22 th seminar of analytical chemistry, 26-28 Jan, 2016, Tehran, Iran.
20. Kazem Kargosha, Atefeh Abbasi Ahd, **Nader Shokoufi** and Sara Adeleh, Determination of Methimazole by Gold Nanoparticles Using a Flow Injection Photothermal Lens Microscopy, 22 th seminar of analytical chemistry, 26-28 Jan, 2016, Tehran, Iran.
21. M. Ghader, A. Eshaghi, K. Kargosha, **N. shokoufi**, Study of biogenic volatile organic compounds released from Clostridium Tetani by HS-SPME coupled to GC-MS, 22 th seminar of analytical chemistry, 26-28 Jan, 2016, Tehran, Iran.
22. **Nader Shokoufi**, Mehran Nozari, Microextraction of Ethanthiol using Headspace single-drop microextraction and determination by NanoDrop Array Spectrophotometry, 21 th seminar of analytical chemistry, 13-15 March, 2014, Ahvaz, Iran.
23. **N. Shokoufi**, M. Ashkanipur, R. Zadmard, J. Yoosefian, N. shokri, Study of Noncovalent Ineraction of macromolecules With Gold Nanoparticles By Thermal Lens Spectroscopy, 20 th seminar of analytical chemistry, 24-26 Feb, 2013, Isfahan, Iran.
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25. **N. Shokoufi** , B. Abasgholi Nezhad, Determination of cobalt in blood by fiber optic linear detection spectrophotometry after rotative liquid liquid microextraction, 19 th seminar of analytical chemistry, 26-28 Feb, 2013, Mashhad, Iran.
26. **N. Shokoufi**, M.Ashkesh, Thermal lens spectrometry in Z-scan mode measurments of gold nanoparticles in water solutions, 19 th seminar of analytical chemistry, 26-28 Feb, 2013, Mashhad, Iran.
27. N.Hadadi, **N. Shokoufi**, Rotative liquid liquid microextraction combined with high performance liquid chromatography to the determination of polycyclic aromatic hydrocarbons, 19 th seminar of analytical chemistry, 26-28 Feb, 2013, Mashhad, Iran.
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29. **N. Shokoufi**, J.Yoosefian, Micro analysis of lanthanides by dual laser beam thermal lens microscopy, 19 th seminar of analytical chemistry, 26-28 Feb, 2013, Mashhad, Iran.
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32. L.Bahari Nikoo, **N. Shokoufi**, New applications of multifunctional nanoparticles, 1th International conference on nanostructures and nonmaterial Science and Applications (ICNNSA2012), 2012, 8 Feb, Masjed soleiman, Iran.
33. **N. Shokoufi**, H. Salehnia, Laser induced tunable photochromism of dithizone via metal coordination, 15th Iranian Physical Chemistry Conference, 3-6 Sep, 2012 , Tehran, Iran.
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43. **N. Shokoufi**, L. Bahari nikoo, Laser Induce Termal Lens Spectrometry of mercury using formation of ionic liquid-capped mercury dithizonate nanoparticles in water media, 15th Iranian Chemistry Congress (ICC2011), 4-6 September, 2011, Hamedan, Iran.
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61. A. Abdolahi, N. Saadatjo. **N. Shokoufi**, Optimization in cationic dye syntesis of hemieyanin dyes, 1 th seminar of preparation of dye materials and enviroment, 20 Jan, 2001, Tehran, Iran.
62. K. Kargosha, A. Motamed-larry, **N. Shokoufi**, Separation and dermination of Sb(III) and Sb(V) at presence of each other, using hyphenated alumina column-Atomic absorbtion system, 8 th seminar of analytical chemistry, 4-6 Feb, 1998, Ahwaz, iran.

راهنمایی پایان نامه:

الف) پایان نامه دکتری:

	Title	Date	Student	University	Servisor/Advisor
1	Biomaterial analysis	Running	Kheirolah pour (PhD)	CCERCI	Dr. N. Shokoufi (supervisor)
2	Flourescence & phospherescence of micro and nanoparticle	Running	Fatemeh Dehnavi (PhD)	CCERCI	Dr. N. Shokoufi (supervisor)
3	Optical trap of nanoparticles by laser	Running	Samira Vaziri (PhD)	CCERCI Sharif Uni.	Dr. N. Shokoufi (supervisor) Dr. N. Reihani (supervisor)
4	DNA & Protein analysis using TLM	2020	Behnaz Abasgolinejad asbagi (PhD)	CCERCI	Dr. N. Shokoufi (supervisor)
5	Biomaterial & drugs analysis by LC-MS & GC-MS	2018	Reza Gader (PhD)	CCERCI	Dr. K. Kargosha (supervisor) Dr. N. Shokoufi (supervisor)
6	Design & fabrication of separation system according to the Microchip-Thermal Lens Microscopy.	2017	Atefe Abbasii (PhD)	CCERCI	Dr. K. Kargosha (supervisor) Dr. N. Shokoufi (supervisor)

ب) پایان نامه کارشناسی ارشد:

	Title	***Date***	***Student***	***Servisor/Advisor***
1	Determination of Na, K, Li, Ca, Mg by plasma optical emission spectrometry	Running	Akram Agajani	Dr. N. Shokoufi (supervisor)
2	Introduction of dual wavelength laser induced thermal lens spectrometery to microchip electrophoresis	2019	Shafigh Nouri Hajibaba	Dr. N. Shokoufi (supervisor) Dr. A. Fakhari (advisor)
3	Rotative Liquid Liquid Microextraction combined with nanodrop spectrophotometry for trace analysis of Pb and Hg in biological and environmental samples	2017	Mehri Zamani	Dr. N. Shokoufi (supervisor)
4	Fabrication of Glass Microchip-Electrophoresis for analysis using thermal lens microscopy	2017	Ebrahim Mirabdollah	Dr. N. Shokoufi (supervisor)
5	Butanethiol optical sensor prepared using stabilized nanoparticles on the surface of the glass slide	2016 Sep	Sara Adele	Dr. N. Shokoufi (supervisor)
6	Photothermal lens spectrometry of fluorophores for determination of analytes that change fluorescenc quantum yield	2016 Sep	Masoud Dodangeh	Dr. N. Shokoufi (supervisor)
7	Trace and ultra trace determination of ethanthiol using HS-SDME comined with nanodrop spectrophotometry	Feb 2015	Mehran Nozari	Dr. N. Shokoufi (supervisor)
8	Spectroscopy evaluation and determination of alkylmercaptans	2015 Jan	Shirin Saleki	Dr. N. Shokoufi (supervisor) Dr. M. S. Abaee (advisor)

	using interaction with Au nanoparticles			
9	Phothermal lens microscopy of Sm-Phenantroline complex and study the interaction of DNA with complex	2013 Oct	Niloofar Shokri	Dr. N. Shokoufi (supervisor) Dr. M. Eslami (advisor)
10	Rotative liquid liquid microextraction for determination of trace levels of PAH	2013 Sep	Hadadi	Dr. N. Shokoufi (supervisor) Dr. K. Tabar (advisor)
11	On-line chemical monitoring using fiber optic array spectrofluorimetry	2013 Sep	Mona Rahimzadegan	Dr. M. Vosouh Dr. N. Shokoufi (supervisor)
12	Thermal lens spectrometry of gold nano particles	2013	Marzieh Ashkkesh	Dr. N. Shokoufi (supervisor)
13	Thermal lens microscopy of samarium	2013 Oct	Javad Yosefian	Dr. N. Shokoufi (supervisor)
14	Investigation of photochemistry of metal-dithizonate & theirs nanoparticles direct & indirect spectrophotometric determination of analytes	2012 Sep	Hanieh Salehnia	Dr. N. Shokoufi (supervisor) Dr. K. Kargosha (advisor)
15	Rotative liquid liquid microextraction	2012 Sep	Behnaz Abasgolinejad asbagi	Dr. N. Shokoufi (supervisor)
16	Synthesis and characterization of nano metal complex (Mercury – Dithizone) using ionic liquids. Spectrometry of nanocomplex for determination of metal analyts.	2011 Sept	Leila Bahari	Dr. N. Shokoufi (supervisor)

18	Laser induced thermal lens spectrometry in combination with dispersive liquid-liquid micro extraction for trace analysis (Pb - Cd)	2011 Jan	Amir Hamdamali	Dr. N. Shokoufi (supervisor) Dr. F. Shemirani (advisor)
19	Dispersive cloud point extraction – Micro photometry of trace Ni(II) with PAN	2010 Nov	Akbar Atabayki	Dr. N. Shokoufi (supervisor) Dr. A. Banaei (advisor)
20	Cloud point extraction, preconcentration and determination of mercury by thermal lens spectrometry and UV-Vis spectrometry	2010 Mar	Rasoul Jafari Atrabi	Dr. K. Kargosha (supervisor) Dr. N. Shokoufi (advisor)
21	Design and instrumentation of photometer based on semiconductor devices and application of that for chemical analysis	2009 Sep	Soheila Samadzadeh	Dr. N. Shokoufi (supervisor) Dr. A. Banaei (advisor)
21	Spectrmetric determination of metals after preconcentration by using dispersive liquid liquid microextraction (In, …)	2009 Feb	Elahe Kazemi	Dr. F. Shemirani (supervisor) Dr. N. Shokoufi (advisor)

فعالیت اجرایی:

1- **مدیر مرکز رشد پژوهشگاه شیمی و مهندسی شیمی ایران**

2- **مدیر و موسس مرکز پژوهش، طراحی و ساخت تجهیزات آزمایشگاهی و مواد شیمیایی، پژوهشگاه شیمی و مهندسی شیمی**

3- **مدیر و موسس شرکت دانش بنیان**

4- **مدیریت و تجاری سازی بیش از ده محصول با فناوری بالا (دستگاه های آنالیز مواد-High Tech) و ارائه به مشتریان متعدد دانشگاهی-صنعتی**