CURRICULUM VITAE

NAME: **Alireza Asghari**
Professor in Analytical Chemistry

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DATE OF BIRTH: October 27, 1971

PLACE OF BIRTH: Sari, Iran

MARITAL STATUS: Married

EDUCATION

1998-2004 Received Ph.D in Analytical Chemistry from Isfahan University of Technology, Isfahan, Iran.
Supervisor: Prof. F. Rahimi-Mansour & Prof. M.K. Amini

1994-1997 Received Master of Science degree in Analytical chemistry from Tehran University, Tehran, Iran
Supervisor: Prof. F. Shemirani

1990-1994 Received Bachelor of Science degree in Applied Chemistry from Tehran University, Tehran, Iran

1987-1990 Received High School Diploma in experimental sciences from 15 Khordad High School. Sari, Iran.

EXPERIENCE

1. Using new microextraction methods for preconcentration of different species.
2. To develop new modified sorbents for SPE method.
3. Construction of new electrochemical sensors.

TAUGHT COURSES

BS Courses

1. Analytical Chemistry (1)
2. Analytical Chemistry (2)
3. Instrumental methods of analysis
4. Metals corrosion

MS Courses

1. Advanced Analytical Chemistry
2. Analytical Electrochemistry
3. New Topics in Analytical Chemistry

Ph.D Courses

1. New Topics in Analytical Chemistry
2. Electrode Reactions Mechanism

PUBLICATIONS

Refereed Journal Papers

1. Dissolvable layered double hydroxide nanoadsorbent-based dispersive solid-phase extraction for highly efficient and eco-friendly simultaneous microextraction of t... S Arghavani-Beydokhti, M Rajabi, **A Asghari**, *Appl. Organomet. Chem.*, e4279, 2018.
2. Centrifugeless dispersive liquid-liquid microextraction based on salting-out phenomenon followed by high performance liquid chromatography for determination of sudan dyes in different species. M Bazregar, M Rajabi, Y Yamini, S Arghavani-Beydokhti, **A Asghari**, *Food Chem.* 244, 1-6, 2018.
3. Magnetic nanoparticle based solid-phase extraction of heavy metal ions: A review on recent advances. M Hemmati, M Rajabi, **A Asghari**, *Microchim. Acta* 185 (3), 160, 2018.

4. Simple determination of some antidementia drugs in wastewater and human plasma samples by tandem dispersive liquid–liquid microextraction followed by high-p... E Mirparizi, M Rajabi, **A Asghari**, *J. Sep. Sci.* , 2018.
5. Coupling of two centrifugeless ultrasound-assisted dispersive solid/liquid phase microextractions as a highly selective, clean, and efficient method for determination... S Arghavani-Beydokhti, M Rajabi, **A Asghari**, *Anal. Chim. Acta* 997, 67-79, 2018.
6. Application of syringe to syringe dispersive micro-solid phase extraction using a magnetic layered double hydroxide for the determination of cadmium (ii) and lead (ii... S Arghavani-Beydokhti, M Rajabi, **A Asghari**, *Anal. Methods* 10 (11), 1305-1314, 2018.
7. Investigation of photo-catalytic effect of SnO2/AC anocomposite on photo-degradation of basic yellow 13 and rodamin b dyes B Fahimirad, **A Asghari**, M Rajabi, *J. Appl. Chem.* 12 (45), 57-63, 2018.
8. Efficient and relatively safe emulsification microextraction using a deep eutectic solvent for influential enrichment of trace main anti-depressant drugs from complicat... AG Moghadam, M Rajabi, **A Asghari**, *J. Chromatogr. B* 1072, 50-59, 2018.
9. A novel nanoadsorbent consisting of covalently functionalized melamine onto MWCNT/Fe3O4 nanoparticles for efficient microextraction of highly adverse metal io... B Fahimirad, **A Asghari**, M Rajabi, *J. Mol. Liq.* 2018.
10. A twin purification/enrichment procedure based on two versatile solid/liquid extracting agents for efficient uptake of ultra-trace levels of lorazepam and clonazepam fr... M Hemmati, M Rajabi, **A Asghari** *J. Chromatogr. A* 1524, 1-12, 2018.
11. A green, simple, catalyst-free, and efficient method for electro-organic synthesis of new benzofuran derivatives. **A Asghari**, A Gholami, M Bakherad, M Ameri, *J. Iran. Chem. Soc.* 14 (10), 2127-2133, 2017.
12. Development of effervescence-assisted liquid phase microextraction based on fatty acid for determination of silver and cobalt ions using micro-sampling flame atomi... AG Moghadam, M Rajabi, M Hemmati, **A Asghari**, J. Mol. Liq. 242, 1176-1183, 2017.
13. Optical properties of MgO and $Mg(OH)_2$ nanostructures synthesized by a chemical precipitation method using impure brine. S Yousefi, B Ghasemi, M Tajally, **A Asghari**, *J. Alloy. Compd.* 711, 521-529, 2017.
14. Toward use of a nano layered double hydroxide/ammonium pyrrolidine dithiocarbamate in speciation analysis: one-step dispersive solid-phase extraction of chromium species in human biological samples. B Barfi, **A Asghari**, M Rajabi, *Arab. J. Chem.* 2017, in press.

15. Combination of magnetic dispersive micro solid-phase extraction and supramolecular solvent-based microextraction followed by high-performance liquid chromatography for determination of trace amounts of cholesterol-lowering drugs in complicated matrices. S Arghavani-Beydokhti, M Rajabi, **A Asghari**, *Anal. Bioanal. Chem.* 409 (18), 4395-4407, 2017.
16. Chemically modified multiwalled carbon nanotube carbon paste electrode for copper determination. M Ghaedi, S Naderi, M Montazerozohori, F Taghizadeh, **A Asghari**, *Arab. J. Chem.* 10, S2934-S2943, 2017.
17. Selective determination of chromium (VI) ions using in-tube electro-membrane extraction followed by flame atomic absorption spectrometry. L Boutorabi, M Rajabi, M Bazregar, **A Asghari**, *Microchem. J.* 132, 378-384, 2017.
18. Rapid derivatization and extractionof paraben preservatives by fast syringe-assisted liquid-liquid microextraction and their determination in cosmetic and aqueous..... . M Rajabi, A sarhadi, M Bazregar, **A Asghari**, E Mirparizi, *Anal. Methods* 9 (41), 5963-5969, 2017.
19. Ultrasound-promoted dispersive micro solid-phase extraction of trace anti-hypertensive drugs from biological matrices using a sonochemically synthesized conductive polymer nanocomposite. M Hemmati, M Rajabi, **A Asghari,** *Ultrasonics Sonochemistry*. 39, 12-24, 2017.
20. A new approach for one-pot, green synthesis of new polycyclic indoles in aqueous solution. M Ameri, **A Asghari**, A Amoozadeh, M Bakherad, *Chin. Chem. Lett.* 28 (5), 1031-1034, 2017.
21. Improved in-tube electro-membrane extraction followed by high performance liquid chromatography for simple and selective determination of ionic compounds: Optimization by central composite design. M Bazregar, M Rajabi, Y Yamini, **A Asghari**, *J. Sep. Sci.*, 2017.
22. Photo-degradation of basic green 1 and basic red 46 dyes in their binary solution by La_2O_3-Al_2O_3 nanocomposite using first-order derivative spectra and experimental design methodology. B Fahimirad, **A Asghari**, M Rajabi, *Spectrochim. Acta A* 179, 58-65, 2017.
23. Rapid determination of some psychotropic drugs in complex matrices by tandem dispersive liquid–liquid microextraction followed by high performance liquid chromatography. **A Asghari**, E Fahimi, M Bazregar, M Rajabi, L Boutorabi, *J. Chromatogr. B* 1052, 51-59, 2017.

24. Chemometric assisted sonochemical dyes adsorption in ternary solutions onto Cu nanowires loaded on activated carbon. M Hemmati, **A Asghari**, M Ghaedi, M Rajabi, *J. Taiwan Inst. Chem. Eng.*, 76, 115-125, 2017.
25. Centrifugeless ultrasound-assisted emulsification microextraction based on salting-out phenomenon followed by high-performance liquid chromatography for the simple determination of phthalate esters in aqueous samples. E Mirparizi, M Rajabi, M Bazregar, **A Asghari**, *J. Sep. Sci.* 40 (9), 2022-2029, 2017.
26. Centrifugeless dispersive liquid-liquid microextraction based on salting-out phenomenon as an efficient method for determination of phenolic compounds in environmental samples. E Mirparizi, M Rajabi, M Bazregar, **A Asghari**, *Anal. Bioanal. Chem.* 409 (11), 3007-3016, 2017.
27. Enhancement of performance and stability of Graphene nano sheets supported cobalt catalyst in Fischer–Tropsch synthesis using Graphene functionalization. S Taghavi, **A Asghari**, A Tavasoli, *Chem. Eng. Res. Des.* 119, 198-208, 2017.
28. Facile and clean electrochemical synthesis of new acetaminophen derivatives through electrochemical oxidation of acetaminophen in the presence of thiouracil derivatives. **A Asghari**, M Ameri, S Taghipour, O Ghaderi, *J. Sulfur Chem.* 38 (2), 163-172, 2017.
29. Efficient determination of some potentially toxic metal ions from real samples via modified nano-γ-alumina-based solid-phase extraction followed by flame atomic absorption spectrometric analysis. P Alizadeh, **A Asghari**, M Hemmati, *Int. J. Environ. Anal. Chem.* 97 (3), 230-246, 2017.
30. Low-toxic air-agitated liquid-liquid microextraction using a solidifiable organic solvent followed by gas chromatography for analysis of amitriptyline and imipramine in human plasma and wastewater samples. **A Asghari**, Z Saffarzadeh, M Bazregar, M Rajabi, L Boutorabi, *Microchem. J.* 130, 122-128, 2017.
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32. Dissolvable layered double hydroxide as an efficient nanosorbent for centrifugeless air-agitated dispersive solid-phase extraction of potentially toxic metal ions from bio-fluid samples. M Rajabi, S Arghavani-Beydokhti, B Barfi, **A Asghari**, *Anal. Chim. Acta* 957, 1-9, 2017.

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36. Application of a tandem air-agitated liquid–liquid microextraction technique based on solidification of floating organic droplets as an efficient extraction method for determination of cholesterol-lowering drugs in complicated matrices. S Arghavani-Beydokhti, **A Asghari**, M Bazregar, M Rajabi, *RSC Adv.* 6 (96), 93582-93589, 2016.

37. Ionic liquid-based dispersive liquid–liquid microextraction combined with inductively coupled plasma-optical emission spectrometry for preconcentration of some heavy metals in complex matrices. **A Asghari**, P Alizadeh, m Hemati, M Salavati, *J. Appl. Chem.* 11 (39), 99-114, 2016.

38. Environmentally Friendly, One-pot, Catalyst-free, and Facile Electrochemical Synthesis of New Supra N-and O-Heterocycles. M Ameri, **A Asghari**, A Amoozadeh, M Bakherad, *Chemistry Letters* 45 (9), 1060-1062, 2016.

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43. Tandem air-agitated liquid–liquid microextraction as an efficient method for determination of acidic drugs in complicated matrices. M Bazregar, M Rajabi, Y Yamini, **A Asghari**, M Hemmati, *Anal. Chim. Acta* 917, 44-52, 2016.

44. Air-assisted dispersive micro-solid phase extraction of polycyclic aromatic hydrocarbons using a magnetic graphitic carbon nitride nanocomposite. M Rajabi, AG Moghadam, B Barfi, **A Asghari**, *Microchim. Acta* 183 (4), 1449-1458, 2016.

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57. An efficient, simple, non-catalytic electrosynthesis of new polycyclic benzofuran derivatives. M Ameri, **A Asghari**, A Amoozadeh, M Bakherad, D Nematollahi, *Tetrahedron Letters* 56 (17), 2141-2144, 2015.

58. Green and one-pot electrochemical synthesis of new benzofurans based on an ECC mechanism. M Rajabi, S Radmannia, M Ameri, **A Asghari**, M Bakherad, *Prog. React. Kinet. Mec.* 40 (2), 163-168, 2015.

59. Hybrid amine-functionalized titania/silica nanoparticles for solid-phase extraction of lead, copper, and zinc from food and Water samples: kinetics and equilibrium studies. M Rajabi, B Barfi, **A Asghari**, F Najafi, R Aran, *Food Anal. Methods* 8 (4), 815-824, 2015.

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61. Optimization of combined ultrasonic assisted/tin sulfide nanoparticle loaded on activated carbon removal of erythrosine by response surface methodology. M Roosta, M Ghaedi, A Daneshfar, R Sahraei, **A Asghari**, *J. Indus. Eng. Chem.* 21, 459-469, 2015.

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63. Mechanistic and electrochemical investigation of catechol oxidation in the presence of thioacetamide: application for voltammetric determination of thioacetamide in aqueous media. **A Asghari**, O Ghaderi, M Rajabi, M Ameri, A Amoozadeh, *Prog. React. Kinet. Mec.* 40 (1), 95-103, 2015.

64. Dispersive suspended-solidified floating organic droplet microextraction of nonsteroidal anti-inflammatory drugs: comparison of suspended droplet-based and dispersive-based liquid-phase microextraction methods. B Barfi, **A Asghari**, M Rajabi, N Mirkhani, *RSC Adv.* 5 (129), 106574-106588, 2015.

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67. Clean and catalyst-less electrosynthesis of benzofurans via p-phenylenediamine oxidation in the presence of barbiturics. **A Asghari**, O Ghaderi, M Ameri, M Rajabi, M Bakherad, *J. Electrochem. Soc.* 162 (1), G14-G17, 2015.

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malononitrile in green media. **A Asghari**, M Ameri, S Radmannia, M Rajabi, M Bakherad, D Nematollahi, *J. Electroanal. Chem.* 733, 47-52, 2014.

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73. Combination of solid-phase extraction and flame atomic absorption spectrometry for simultaneous preconcentration and determination of some heavy metals in real samples. **A Asghari**, H Farzinia, M Rajabi, M Ghaedi, *Desal. Water Treat.* 52 (28-30), 5430-5441, 2014.

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پایان نامه های دکتری سرپرستی شده:

ردیف	نام دانشجو	عنوان پایان نامه	شروع دوره	پایان دوره
1	محسن عامری	الکتروسنتز ترکیبات آلی بر پایه واکنش های افزایش مایکل و سونوگاشیرا در محیط آبی	1390	1394
2	بهروز برفی	توسعه و آسان سازی روش های میکرو استخراج فاز مایع و جامد سازگار با محیط زیست برای اندازه گیری داروها ، آنتی اکسیدانها وآلاینده های زیست محیطی در نمونه های حقیقی	1390	1394
3	امید قادری	سنتز الکتروشیمیایی ترکیبات آلی بر پایه واکنش‌های افزایش نوکلئوفیلی در محیط آبی و استفاده از الکترودهای اصلاح شده برای اندازه‌گیری گونه های مختلف	1392	1396
4	سیده لیلا بوترابی	توسعه روش های میکرواستخراج در اندازه گیری مستقیم گونه های یونش پذیر و اصلاح الکترودهای گزینش پذیر با نانو ذرات برای تشخیص و اندازه گیری داروها	1392	1396
5	غلامحسن شریف زاده	مطا لعه حذف و پیش تغلیظ یونهای فلزی و رنگهای آ لی از محلول های آ بی به روش تر کیبی انعقاد - لخته سازی و جذب سطحی و مطالعه بر هم کنش رنگ با فلز	1391	1396
6	بهاره فهیمی راد	توسعه روش های استخراج و میکرواستخراج با بکارگیری جاذب های جدید و ساخت و اصلاح نانو فتوکاتالیست ها جهت استفاده در فرایندهای اکسیداسیون پیشرفته	1392	1396
7	سیده سمیه تقوی	بهینه سازی عملکرد نانوکاتالیست کبالت بر پایه گرافن عاملدار شده در سنتز فیشر تروپش	1392	1396

پایان نامه های کارشناسی ارشد سرپرستی شده:

ردیف	نام دانشجو	عنوان پایان نامه	شروع دوره	پایان دوره
1	امیر ایزدیار	اندازه گیری همزمان مقادیر آثار یون های فلزی سنگین توسط روش ولتامتری عاری سازی جذبی کاتدی	1385	1387
2	مهدی باقری روچی	حذف رنگ سنتزی مالاشیت گرین از محلول های آبی توسط روش انعقاد الکتریکی	1386	1388
3	فرشاد رحیمی	حذف رنگ های سنتزی مالاشیت سبز و بنفش کریستال از محلول های آبی	1386	1388
4	مهری قزاقی موجانی	جداسازی وپیش تغلیظ برخی کاتیون های فلزی توسط روش میکرو استخراج مایع – مایع پخشی واندازه گیری توسط تکنیک های پلاسمای جفت شده القایی (ICP) وکروماتوگرافی مایع با کارآیی بالا (HPL)	1387	1389
5	هاجر فرضی نیا	جداسازی وپیش تغلیظ فلزات سنگین از محلولهای آبی توسط روش استخراج فاز جامد با استفاده از جاذب کربن فعال اصلاح شده	1387	1389
6	سیده مژگان به گزین	جداسازی وپیش تغلیظ مقادیر خیلی کم عناصر منگنز، نیکل و وانادیوم توسط روش میکرو استخراج مایع –مایع پخشی	1388	1390
7	بهرام محمدی	سنتز آلومینای نانو ساختار واصلاح آن توسط سدیم دودسیل سولفات جهت جداسازی وپیش تغلیظ یون های فلزی سنگین وحذف رنگ های سبز مالاشیت ومتیلن بلو توسط زئولیت طبیعی سمنان در نمونه های آبی	1388	1390
8	پری علیزاده	کاربرد روش استخراج فاز جامد با استفاده از آلومینای نانو ساختار سنتزی اصلاح شده و میکرو استخراج مایع – مایع پخشی جهت استخراج و پیش تغلیظ فلزات سنگین	1388	1390

9	سمیه ارغوانی بیدختی	استخراج وپیش تغلیظ فلزات سنگین توسط روش استخراج فاز جامد با استفاده از نانو لوله های کربنی تک دیواره و نانو سیلیکاژل به طور شیمیایی عامل دار شده وکربن فعال اصلاح شده	1388	1390
10	شوکت کیانی پور	استفاده از نانوکامپوزیت نانولوله های کربنی چند دیواره و چیتوزان برای ساخت یک حسگر الکتروشیمیاییو کاربرد این حسگر در اندازه گیری همزمان پاراستامول مفنامیک اسید اوریک اسید و اسکوربیک اسید در نمونه های دارویی و بیولوژیکی	1388	1390
11	رضا آران	کاربرد نانوذرات سیلیکای آمین دار شده شیمیایی جهت پیش تغلیظ و اندازه گیری یون های فلزی سنگین	1389	1391
12	حمید رضا فضل کریمی	اندازه گیری پتانسیومتری مس با استفاده از الکترود خمیر کربن اصلاح شده با نانو ذرات روی هیدروکسید واستخراج و پیش تغلیظ مخلوط ارتو، متا و پارا آمینوفنول در نمونه های محیطی توسط روش میکرو استخراج مایع – مایع پخشی واندازه گیری توسط دستگاه HPLC	1389	1391
13	محبوبه مرشدی زاده	کاربرد روش استخراج فاز جامد با استفاده از کربن فعال اصلاح شده با نانو ذرات روتنیوم برای استخراج و پیش تغلیظ یونهای آهن، کروم، مس و سرب و کوپل استخراج فاز جامد با روش میکرو استخراج پخشی مایع – مایع به منظور غنی سازی یون مس	1389	1391
14	بهزاد برایی	اندازه گیری همزمان متیل اورانژ و آلیزارین رد در پساب های صنعتی با استفاده از الکترود کربن شیشه ای اصلاح شده با نانو لوله های کربنی چند دیواره و چیتوسان و سنتز الکتروشیمیایی بنزوکینون ها با استفاده از مشتقات کتکول در محیط آبی	1390	1392
15	هانیه قنبری	یک روش جدید میکرواستخراج با امولسیون سازی توسط سورفکتانت با کمک امواج فراصوت بر پایه ی مایع یونی برای اندازه گیری همزمان پارا-انیس آلدهید، ترانس-آنتول و استراگول در نمونه های عصاره گیاهان و ادرار و مقایسه ی آن با دیگر روش های میکرواستخراج فاز مایع	1390	1392
16	امید قادری	اندازه گیری تیواستامید با استفاده از الکترود کربن شیشه ای اصلاح شده با نانو لوله های کربنی چند دیواره و چیتوسان ومقایسه ی این روش با اندازه گیری الکتروکاتالیتیکی تیواستامید در حضور کتکول	1390	1392
17	زکیه نظری داوریان تفتی	الف) اندازه گیری همزمان مواد منفجره نیتروآروماتیک با استفاده از روش میکرواستخراج مایع بر اساس امولسیون سازی جفت شده با HPLC-UV-Vis ب) اندازه‌گیری مقادیر جزئی کادمیم (II) در آب بوسیله جذب اتمی شعله‌ای پس از پیش تغلیظ آن توسط روش میکرو استخراج مایع بر اساس امولسیون سازی	1390	1392
18	امید محمد نژاد	کاربرد نانوذرات سولفید مس نشانده شده برروی کربن فعال به عنوان جاذب موثر برای حذف رنگ مالاشیت سبز ازمحلول های آبی	1390	1392
19	مریم همتی	کاربرد روش های مشتقی برای بررسی جذب سطحی همزمانی و رقابتی رنگ ها با استفاده از نانو ذرات تثبیت شده بر روی کربن فعال: بهینه سازی با روش طراحی آزمایش	1391	1393
20	الهه قباخلو	کاربرد نانو ذرات مغناتیسی آهن اصلاح شده با خاکستر برگ سیب جهت حذف و پیش تغلیظ کاتیون های فلزی	1391	1393
21	سمیرا تقی پور	بررسی رفتار الکتروشیمیایی استامینوفن در حضور مشتقات تیوراسیل و سنتز استامینوفن تیو اتر ها	1391	1393
22	شقایق علیفری	روش میکرو استخراجی فاز جامد پخشی با کمک هوا برای اندازه گیری یون های فلزی سنگین در نمونه های آب میوه و سبزیجات بر اساس یک نانو ذره عامل دار شده جدید با کمک روش های طراحی آزمایش	1391	1393
23	علی اکبر زیارتی	سنتز الکتروشیمیایی مشتقات استامینوفن با استفاده از مالونونیتریل در محیط آبی	1391	1393
24	افسانه نصرالهی	استخراج و پیش تغلیظ کاتیون های سرب و مس با استفاده از آمبرلیت XAD-1180 اصلاح شده	1391	1393
25	بهرام عنایتی	کاربرد اسپکتروفتومتری مشتقی در حذف همزمان سه رنگ کاتیونی	1391	1393
26	سپیده رادمان نیا	سنتز الکتروشیمیایی مشتقات ایندول و مشتقات بنزوفوران در محیط آبی	1391	1393

27	سمانه اسمعیل غلام	بررسی کارایی خاکستر ضایعات طیور در حذف سرب از محیط های آبی	1391	1393
28	فریده مشتاقی	سنتز الکتروشیمیایی کینون ها و بنزو فوران های جدید در محیط آبی	1392	1394
29	آناهیتا غلامی	سنتز بدون کاتالیست هیدروکینون ها و بنزوفوران های جدید از طریق روش های الکتروشیمیایی	1392	1394
30	حسین کاظمی رشوندی	سنتز نانوکاتالیست ها و مطالعه فعالیت فوتوکاتالیزوری ان در تخریب نوری رنگدانه ها	1393	1395
31	ریحانه منصوری کاسوایی	بررسی رفتار الکتروشیمیایی پاراستامول در حضور مشتقات استیلن	1393	1395
32	ساناز سعدالدین	الکتروسنتز مشتقات جدید بنزوفوران های چند حلقه ای	1393	1395
33	سارا ملایی پروری	کاربرد روش میکرواستخراج فاز جامد پخشی بر پایه نانوکامپوزیت مغناطیسی پلیمرهادی برای پیش-تغلیظ و استخراج آلاینده‌های زیست‌محیطی: بهینه‌سازی با طراحی آزمایش	1394	1396