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Education

- ✓ B.Sc, Pure Chemistry, Shiraz University - 1988
- ✓ MS, Chemistry, Ferdowsi University of Mashhad - 1993
- ✓ PhD, Analytical Chemistry, Ferdowsi University of Mashhad - 2002

Courses

- | | |
|--|--|
| 1. analytical chemistry 2 | 2. analitical chemistry laboratory 2 |
| 3. In strumental analitical lab | 4. analitical chemistry laboratory 1 |
| 5. methods of physicochemical seperation | 6. chemistry |
| 7. General chemistry laboratory 2 | 8. advanced analytical chemistry |
| 9. In strumental analitical | 10. General chemistry laboratory 1 |
| 11. methods of separation and identification of natural compound | 12. general chemistry |
| 13. new method in analytical chemistry | 14. new topics in decomposition chemistry |
| 15. 0 | 16. Topics in Biochemistry |
| 17. laser snd applied in chemistry | 18. Atopic of special intereotin applied chemistry |
| 19. lkkk | 20. Modern Sample Preparation Techniques in Polymer Analysis |
| 21. Instrumental analytical | 22. analitical chemistry 1 |
| 23. analytical chemistry | 24. General chemistry in chemical engineering |
| 25. method physical and chemical | 26. Analytical Chemistry 3 |
| 27. m | 28. Separation Techniques in Analytical Chemistry |
| 29. General chemistry in chemical engineering | 30. Selected Topics in Energy Conversion |
| 31. Bioanalytical Chemistry | 32. Standardization |

Thesis

Master Thesis

Journals Papers

2021

1. Preconcentration and Analytical Methods for Determination of Methyl Tert-Butyl Ether and Other Fuel Oxygenates and Their Degradation Products in Environment: A Review

Sayyed Hossein Hashemi, Massoud Kaykhaii, Majid Mirmoghaddam, Grzegorz Boczkaj

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY Volume: (51) 582 - 608

2. Surface-orientated platinum nanoparticles electrodeposited on a carbon substrate as a high performance electrocatalyst for glucose oxidation reaction in alkaline media

Behnam Moeini, Tahereh G. Avval, Matthew R. Linford, Masoumeh Ghalkhani, Massoud Kaykhaii, Rasol Abd

Materials Science and Engineering B-Advanced Functional Solid-State Materials Volume: (268) 115147-1 - 115147-11

3. Application of polyethylene glycol-coated iron oxide nanoparticles for magnetic solid phase extraction of copper from seawater samples and its determination by graphite furnace atomic absorption spectrometry using response surface methodology for optimization of extraction

, Sayyed Hossein Hashemi, Ahmad Jamali Keikha, Massoud Kaykhaii

SPECTROSCOPY LETTERS Volume: (54) 254 - 265

4. Nanoparticle coatings for stir bar sorptive extraction, synthesis, characterization and application

Sayyed Hossein Hashemi, Massoud Kaykhaii

TALANTA Volume: (221) 121568-1 - 121568-13

5. An electrochemical interface for direct analysis of amlodipine in tablets and human blood samples

Majid Arvand, Massoud Kaykhaii, , Shiva Hemmati

Materials Science and Engineering B-Advanced Functional Solid-State Materials Volume: (263) 114868-1 - 114868-11

6. Characterization of polymeric materials and their degradation products

Massoud Kaykhaii, Matthew Linford

international journal of new chemistry Volume: (8) 1 - 15

2020

7. Highly Sensitive Determination of Bisphenol A in Bottled Water Samples by HPLC after Its Extraction by a Novel Th-MOF Pipette-Tip Micro-SPE

Massoud Kaykhaii, Ilnaz Yavari, Ghasem Sargazi, Ahmad Khajeh Ebrahimi

JOURNAL OF CHROMATOGRAPHIC SCIENCE Volume: (58) 373 - 382

8. Simultaneous determination of droxidopa and carbidopa by carbon paste electrode functionalized with NiFe₂O₄ nanoparticle and 2-(4-ferrocenyl-[1,2,3]triazol-1-yl)-1-(naphthalen-2-yl) ethanone

Sayed Zia Mohammadi, Hadi Beitollahi, Massoud Kaykhaii, , Somayeh Tajik, Rahman Hosseinzadeh

Measurement: Journal of the International Measurement Confederation Volume: (155) 107522-1 - 107522-9

9. Sputtered silicon solid phase microextraction fibers with a polydimethylsiloxane stationary phase with negligible carry-over and phase bleed

Tuhin Roychowdhury, Dhananjay I. Patel, Dhruv Shah, Anubhav Diwan, Massoud Kaykhaii, Jason S. Herrin

JOURNAL OF CHROMATOGRAPHY A Volume: (1623) 461065-1 - 461065-11

10. Application of artificial neural network modeling in prediction of the extraction yield of copper-morin complex from aqueous media utilizing a molecularly imprinted polymer coated stir bar

Sayyed Hossein Hashemi, Massoud Kaykhaii, Mohammad Shakeri

iranian journal of analytical chemistry Volume: (7) 78 - 87

11. Application of molecularly imprinted polymer pipette tip micro-solid phase extraction of nalidixic acid and acetaminophen from pills and seawater samples and their determination by spectrophotometry

Sayyed Hossein Hashemi, Massoud Kaykhaii, Ahmad Jamali Keikha, Nasrin Naruie

CHEMICAL PAPERS Volume: (74) 4009 - 4023

12. Application of a smartphone based spectrophotometer for rapid in-field determination of nitrite and chlorine in environmental water samples

Mona Sargazi, Massoud Kaykhaii

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: (227) 117672-1 - 117672-5

13. Separation and determination of ciprofloxacin in seawater, human blood plasma and tablet samples using molecularly imprinted polymer pipette tip solid phase extraction and its optimization by response surface methodology

Sayyed Hossein Hashemi, Morteza Ziyaadini, Massoud Kaykhaii, Ahmad Jamali Keikha, Nasrin Naruie

JOURNAL OF SEPARATION SCIENCE Volume: (43) 505 - 513

14. Application of an iron-based porphyrinic metal-organic framework for removal of warfarin from aqueous solutions

Zahra Moghaddam, Massoud Kaykhaii, Mostafa Khajeh, Ali Reza Oveisi

Analytical Methods Volume: (12) 651 - 656

15. PCN-222 metal-organic framework: a selective and highly efficient sorbent for the extraction of aspartame from gum, juice, and diet soft drink before its spectrophotometric determination

Zahra Moghaddam, Massoud Kaykhaii, Mostafa Khajeh, Ali Reza Oveisi

Chemistry Central Journal Volume: (14) 19-1 - 19-9

16. Simultaneous removal of heavy metals from wastewater using modified sodium montmorillonite nanoclay

Mohammad reza Rezai kahkha, Massoud Kaykhaii, Batool Rezaei Kahkha, Hamed Khosravi, Esmail Tohidlou

ANALYTICAL SCIENCES Volume: (36) 1039 - 1043

17. Development of a solventless stir bar sorptive extraction/ thermal desorption large volume injection capillary gas chromatographic-mass spectrometric method for ultra-trace determination of pyrethroids pesticides in river and tap water samples

Mona Sargazi, Mark Bücking, Massoud Kaykhaii

Open Chemistry Volume: (18) 1339 - 1348

18. Fabrication of a Smartphone-Based Spectrophotometer and Its Application in Monitoring Concentrations of Organic Dyes

Razieh Koohkan, Massoud Kaykhaii, Mojtaba Sasani, Brett Paull

ACS Omega Volume: (5) 31450 - 31455

2019

19. Spectrofluorometrical Determination of Vitamin B1 in Different Matrices Using Box-Behnken Designed Pipette Tip Solid Phase Extraction by a Carbon Nanotube Sorbent

Sayyed Hossein Hashemi, Hossein Yahyavi, Massoud Kaykhaii, Mohammad Hashemi, , Ahmad Jamali Keikha

ChemistrySelect Volume: (4) 3052 - 3057

20. Liquid Crystals in Analytical Chemistry: A Review

Mona Sargazi, Matthew R. Linford, Massoud Kaykhaii

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY Volume: (49) 243 - 255

21. Application of response surface methodology for silver nanoparticle stir bar sorptive extraction of heavy metals from drinking water samples: a Box-Behnken design

Sayyed Hossein Hashemi, Massoud Kaykhaii, Ahmad Jamali Keikha, Zahra Sajjadi,

ANALYST Volume: (144) 3525 - 3532

22. Co-microprecipitation/flotation of trace amounts of cadmium from environmental samples through its complexation with iodide and neutralization with cetyltrimethylammonium bromide in the presence of perchlorate ions

, Massoud Kaykhaii, Shayessteh Dadfarnia, Ali Mohammad Haji Shabani

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY Volume: (99) 1365 - 1374

23. Pilot scale study of Co-Fe-Ni nanocatalyst for CO hydrogenation in Fischer-Tropsch synthesis

Hamhd reza Azizi, Ali Akbar Mirzaei, Raziye Sarani, Massoud Kaykhaii

Iranian Journal of Catalysis Volume: (9) 223 - 231

24. Application of response surface methodology for optimization of metal- organic framework based pipette-tip solid phase extraction of organic dyes from seawater and their determination with HPLC

Sayyed Hossein Hashemi, Massoud Kaykhaii, Ahmad Jamali Keikha, Elahe Mirmoradzehi, ghasem sargazi

Chemistry Central Journal Volume: (13) 1 - 10

25. Application of Box-Behnken Design in the Optimization of a Pipette Tip Solid Phase Extraction Using Modified Carbon Nanotubes for Spectrophotometric Determination of Malachite Green in Chabahar Bay Seawaters

Sayyed Hossein Hashemi, Massoud Kaykhaii, Ahmad Jamali Keikha, Enayat Saberi

iranian journal of analytical chemistry Volume: (6) 13 - 23

26. A Novel Electrochemical Sensor Based on Graphene Oxide Nanosheets and Ionic Liquid Binder for Differential Pulse Voltammetric Determination of Droxidopa in Pharmaceutical and Urine Samples

Mohammadi Sayyed Zia, Hadi Beitollahi, Massoud Kaykhaii,

RUSSIAN JOURNAL OF ELECTROCHEMISTRY Volume: (55) 1229 - 1236

27. Application of response surface methodology to optimize pipette tip micro?solid phase extraction of dyes from seawater by molecularly imprinted polymer and their determination by HPLC

Sayyed Hossein Hashemi, Massoud Kaykhaii, Ahmad Jamali Keikha, Asmeh Parkaz

Journal of the Iranian Chemical Society JICS Volume: (16) 2613 - 2627

28. APPLICATION OF RESPONSE SURFACE MODELING FOR OPTIMIZATION AND DETERMINATION OF MALONDIALDEHYDE BY VORTEX-ASSISTED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION AND GC-FID

Majid Mirmoghaddam, Massoud Kaykhaii, Mohammad Hashemi, Ahmad Jamali Keikha, Sayyed Hossein Hashemi,

JOURNAL OF THE CHILEAN CHEMICAL SOCIETY Volume: (64) 4531 - 4537

29. Determination of nicotine in saliva, urine and wastewater samples using tantalum metal organic framework pipette tip micro-solid phase extraction

mohammad reza rezaei kahkha, Massoud Kaykhaii, Ghasem Sargazi, Batool Rezaei Kahkha

Analytical Methods Volume: (11) 6168 - 6175

30. اندازه گیری میزان نیتروژن در نفت خام و فراورده های نفتی پالایشگاه اصفهان با استفاده از سه متري و نسلر و مقایسه نتیجه های آنها pH روش تیتراسیون مستقیم، تیتراسیون

Massoud Kaykhaii, Mashaallah Rahmani, Mohsen Moradmand, Mojtaba Sadrarhami

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31. DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL SAMPLES USING ULTRASONIC PROBE AND SALT-ASSISTED LIQUID-LIQUID EXTRACTION COUPLED WITH HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY

ROUHOLLAH HEYDARI, , Massoud Kaykhaii

JOURNAL OF THE CHILEAN CHEMICAL SOCIETY Volume: (64) 4265 - 4269

32. Box-Behnken design optimization of pipette tip solid phase extraction for methyl orange and acid red determination by spectrophotometry in seawater samples using graphite based magnetic NiFe₂O₄ decorated exfoliated as sorbent

s.h h, Massoud Kaykhaii, Ahmad Jamali Keikha, Elahe Mirmoradzehi

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: (213) 218 - 227

33. Multidimensional Gas Chromatography in Essential Oil Analysis. Part 1: Technical Developments

Leo Lebanov, Laura Tedone, Massoud Kaykhaii, Matthew R. Linford, Brett Paull

CHROMATOGRAPHIA Volume: (82) 377 - 398

34. Multidimensional Gas Chromatography in Essential Oil Analysis. Part 2: Application to Characterisation and Identification

Leo Lebanov, Laura Tedone, Massoud Kaykhaii, Matthew R. Linford, Brett Paull

CHROMATOGRAPHIA Volume: (82) 399 - 414

35. Determination of total acidic number of motor oils of diesels and cars and its correlation to the mileage

Sadegh Takavardi nasab, Mona Sargazi, Karam Goodarzi, Massoud Kaykhaii

Volume: (38) 219 - 227

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36. Carbon Paste Electrode Modified with ZrO₂ Nanoparticles and Ionic Liquid for Sensing of Dopamine in the Presence of Uric Acid

, Sayed Zia Mohammadi, Massoud Kaykhaii

JOURNAL OF ANALYTICAL CHEMISTRY Volume: (73) 685 - 694

37. SPECTROPHOTOMETRIC DETERMINATION OF FOUR NAPHTHALENE SULFONATES IN SEAWATER AFTER THEIR MOLECULARLY IMPRINTED STIR BAR SORPTIVE EXTRACTION

Sayyed Hossein Hashemi, Massoud Kaykhaii, Fatemeh Tabehzar

JOURNAL OF THE CHILEAN CHEMICAL SOCIETY Volume: (63) 4057 - 4063

38. DISPERSIVE LIQUID-LIQUID MICROEXTRACTION COUPLED WITH MICRO-VOLUME SPECTROPHOTOMETRY FOR DETERMINATION OF TOTAL IODINE IN URINE SAMPLES

Mahmood Ali Kaykhaei, Massoud Kaykhaii, Mohammad Hashemi, Mona Sargazi

JOURNAL OF THE CHILEAN CHEMICAL SOCIETY Volume: (63) 3947 - 3949

39. Determination of carbamazepine in urine and water samples using amino-functionalized metal-organic framework as sorbent

Mohammad Reza Rezaei Kahkha, Ali Reza Oveisi, Massoud Kaykhaii, Batool Rezaei Kahkha

Chemistry Central Journal Volume: (12) 1 - 12

40. Synthesis of UiO-66-OH zirconium metal-organic framework and its application for selective extraction and trace determination of thorium in water samples by spectrophotometry

Zahra Moghaddam, Massoud Kaykhaii, Mostafa Khajeh, Ali Reza Oveisi

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41. Application of Taguchi L16 design method for comparative study of ability of 3A zeolite in removal of Rhodamine B and Malachite green from environmental water samples

Mashaallah Rahmani, Massoud Kaykhaii,

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: (188) 164 - 169

42. Spectrophotometric Determination of Formaldehyde in Seawater Samples after In-situ Derivatization and Dispersive Liquid-Liquid Microextraction

mahmoud Nassiri, Massoud Kaykhaii, Sayyed Hossein Hashemi, Massoud Sepahi

Iranian Journal of Chemistry and Chemical Engineering Volume: (37) 89 - 98

43. Fast determination of bisphenol A in spiked juice and drinking water samples by pipette tip solid phase extraction using cobalt metal organic framework as sorbent

M. R. R. Kahkha, Massoud Kaykhaii, A. Miri, Hamideh Saravani

BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA Volume: (32) 595 - 602

44. اندازه گیری مقادیر ناچیز 4- کلروفل در نمونه های آب دریا با استفاده از طیف نورسنجی پس از استخراج جذبی آن به وسیله میله چرخان پوششدار شده با بسپار قالب مولکولی

HOSSEIN HASHEMI, Massoud Kaykhaii, fahimeh najaari, zahra monfaredzadeh

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45. Biosynthesis of Gold Nanoparticles Using Aqueous Extract of Stem of Periploca Aphylla Plant

Massoud Kaykhaii, Nafiseh Haghpazir, jafar valizadeh

Journal of Nanostructures Volume: (8) 152 - 158

46. Application of Box-Behnken design in response surface methodology for the molecularly imprinted polymer pipette-tip solid phase extraction of methyl red from seawater samples and its determination by spectrophotometry

HOSSEIN HASHEMI, Massoud Kaykhaii, Ahmad Jamali Keikha, zahra sajjadi

MARINE POLLUTION BULLETIN Volume: (137) 306 - 314

47. Application of Box-Behnken design in the optimization of a simple graphene oxide/zinc oxide nanocomposite-based pipette tip micro-solid phase extraction for the determination of Rhodamine B and Malachite green in seawater samples by spectrophotometry

HOSSEIN HASHEMI, Massoud Kaykhaii, Ahmad Jamali Keikhac, asmeH parkaz

Analytical Methods Volume: (10) 5707 - 5714

48. Simultaneous elimination of Malachite Green, Rhodamine B and Cresol Red from aqueous sample with Sistan sand, optimized by Taguchi L16 and Plackett-Burman experiment design methods

Sahar Marghzari, m s, Massoud Kaykhaii, Mona Sargazi, mohammad hashemi

Chemistry Central Journal Volume: (12) 116-1 - 116-11

49. Using pattern recognition entropy to select mass chromatograms to prepare total ion current chromatograms from raw liquid chromatography-mass spectrometry data

Shiladitya Chatterjee, George H. Major, Brett Paull, Estrella Sanz Rodriguez, Massoud Kaykhaii, Matt

JOURNAL OF CHROMATOGRAPHY A Volume: (1558) 21 - 28

2017

50. Application of in- syringe dispersive liquid-liquid microextraction for extraction and per-concentration of total naphthalene sulfonates of seawater samples and their determination by spectrophotometry

s.h hashemi, Massoud Kaykhaii,

Volume: (11) 87 - 93

51. Investigating the Essential Oil Composition of Rosmarinus officinalis Before and After Fertilizing with Vermicompost

, Massoud Kaykhaii

Journal of Essential Oil Bearing Plants Volume: (20) 1413 - 1417

52. Determination of (S)-warfarin using an activated screen printed gold electrode modified with gold nanoparticles and an enantioselective molecularly imprinted polymer

Ilnaz Yavari, Massoud Kaykhaii

Analytical Methods Volume: (9) 6583 - 6589

53. Application of Dispersive Liquid-Liquid Microextraction in Narrow-Bore Tube for Preconcentration and Spectrophotometric Determination of Cadmium in Aqueous Samples

Mashaallah Rahmani, Massoud Kaykhaii, Malih Harati

eurasian journal of analytical chemistry Volume: (12) 197 - 209

54. Comparison of Air-Assisted Vortex-Assisted and Ultrasound-Assisted Dispersive Liquid-Liquid Microextraction for the Determination of BTEX Compounds in Water Samples Prior to GC-FID Analysis

Mashaallah Rahmani, Massoud Kaykhaii, , ,

CHROMATOGRAPHIA Volume: (80) 109 - 117

55. اندازه‌گیری دیازینون در نمونه های محیطی با استفاده از نانولوله های اصلاح شده کربنی با استفاده از سرسمپلر

m r, Massoud Kaykhaii, Mahdi Shafiee Afarani, b r

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56. The Mesoporous Porphyrinic Zirconium Metal-Organic Framework for Pipette-Tip Solid-Phase Extraction of Mercury from Fish Samples Followed by Cold Vapor Atomic Absorption Spectrometric Determination

Mohammad Reza Rezaei Kahkha, Saba Daliran, Ali Reza Oveisi, Massoud Kaykhaii, Zahra Sepehri

Food Analytical Methods Volume: (10) 2175 - 2184

57. Highly Sensitive Amperometric Detection of Propranolol using Graphite Screen Printed Electrode Modified with Zirconium Dioxide Nanoparticles

, Sayed Zia Mohammadi, Massoud Kaykhaii

Analytical and Bioanalytical Electrochemistry Volume: (9) 277 - 285

58. Novel Electrochemical Sensor based on ZrO₂ Nanoparticles Modified Glassy Carbon Electrode for low-trace Level Determination of Amlodipine by Differential Pulse Voltammetry

, Mohammadi Sayyed Zia, Massoud Kaykhaii

Analytical and Bioanalytical Electrochemistry Volume: (9) 390 - 399

59. Determination of Zinc, Copper, and Mercury in Water Samples by Using Novel Micro Cloud Point Extraction and UV-Vis Spectrophotometry

, Massoud Kaykhaii

eurasian journal of analytical chemistry Volume: (12) 313 - 324

60. Developments in Methods of Analysis for Naphthalene Sulfonates

Sayyed Hossein Hashemi, Massoud Kaykhaii

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY Volume: (47) 127 - 137

61. Application of Microextraction Techniques Including SPME and MESI to the Thermal Degradation of Polymers: A Review

Massoud Kaykhaii, Matthew R. Linford

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY Volume: (47) 172 - 186

62. Evaluation of Eucalyptus leaves as an adsorbent for decolorization of Methyl Violet (2B) dye in contaminated waters: Thermodynamic and Kinetics model

, Mashaallah Rahmani, Massoud Kaykhaii,

Modeling Earth Systems and Environment Volume: (3) 825 - 829

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63. Application of artificial neural network modeling in predicting the extraction yield of zinc ions from real sample by molecularly imprinted polymer

, Massoud Kaykhaii, ,

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64. One-step in-syringe dispersive liquidliquid microextraction and spectrophotometric determination of trace amounts of palladium in aqueous samples

Massoud Kaykhaii, Mashaallah Rahmani,

Volume: (35) 87 - 97

65. Preconcentration and Determination of Trace Amounts of Aromatic Compounds in Non-alcoholic Beer Samples by In-syringe Dispersive liquidliquid Microextraction

Mashaallah Rahmani, Massoud Kaykhaii, Elham Ghasemi, Mohadeseh Tahernarnajad

Journal of Applied Chemical Research Volume: (10) 87 - 95

66. Salt saturated single-drop microextraction of malondialdehyde from human plasma before its determination by gas chromatography

, Massoud Kaykhaii,

Analytical Methods Volume: (11) 2456 - 2462

67. A simple graphene-based pipette tip solid-phase extraction of malondialdehyde from human plasma and its determination by spectrofluorometry

Massoud Kaykhaii, Hossein Yahyavi, ,

ANALYTICAL AND BIOANALYTICAL CHEMISTRY Volume: (408) 4907 - 4915

68. Development of UV/H₂O₂/TiO₂-LECA hybrid process based on operating cost: Application of an effective fixed bed photo-catalytic recycled reactor

, , Massoud Kaykhaii

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: (44) 90 - 98

69. Determination of mefenamic acid in urine and pharmaceutical samples by HPLC after pipette-tip solid phase microextraction using zinc sulfide modified carbon nanotubes

, Massoud Kaykhaii, Mahdi Shafiee Afarani,

Analytical Methods Volume: (8) 5978 - 5983

70. A rapid spectrofluorimetric method for the determination of malondialdehyde in human plasma after its derivatization with thiobarbituric acid and vortex assisted liquid-liquid microextraction

Hossein Yahyavi, Massoud Kaykhaii,

RSC Advances Volume: (6) 2361 - 2367

71. [Molecularly imprinted stir bar sorptive extraction coupled with high-performance liquid chromatography for trace analysis of naphthalene sulfonates in seawater](#)

s h, Massoud Kaykhaii, Fatemeh Tabehzar

Journal of the Iranian Chemical Society JICS Volume: (13) 733 - 741

72. [Molecularly imprinted stir bar sorptive extraction coupled with high performance liquid chromatography for trace analysis of naphthalene sulfonates in seawater](#)

HOSSEIN HASHEMI, Massoud Kaykhaii, Fatemeh Tabehzar

Journal of the Iranian Chemical Society JICS Volume: (13) 733 - 741

73. [A rapid spectrofluorimetric method for the determination of malondialdehyde in human plasma after its derivatization with thiobarbituric acid and vortex assisted liquid liquid microextraction](#)

Hossein Yahyavi, Massoud Kaykhaii, Mohammad Hashemi

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74. [Application of a novel micro-cloud point extraction for preconcentration and spectrophotometric determination of azo dyes](#)

, Massoud Kaykhaii

JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY Volume: (27) 1521 - 1526

75. [REMOVAL OF URANIUM \(VI\) FROM AQUEOUS SOLUTION USING MODIFIED MULTIWALLED CARBON NANOTUBES: KIENETICK, ISOTHERM AND THERMODYNAMIC STUDY](#)

MOHAMMAD REZA REZAEI KAHKHA, Massoud Kaykhaii

Pollution Research Volume: (35) 31 - 37

76. [Comparison of Headspace-Single Drop Microextraction and Dispersive Liquid-Liquid Microextraction for Determination of Benzene in Juice Drinks Containing Vitamin C](#)

Massoud Kaykhaii, ,

CHROMATOGRAPHIA Volume: (79) 781 - 785

77. [A novel green one-step synthesis of gold nanoparticles using crocin and their anti-cancer activities](#)

Reyhane Hoshyar, Gholam Reza Khayati, Maliheh Poorgholami, Massoud Kaykhaii

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY Volume: (159) 237 - 242

78. [Application of Micro-cloud point extraction for spectrophotometric determination of Malachite green, Crystal violet and Rhodamine B in aqueous samples](#)

, Massoud Kaykhaii

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: (164) 93 - 97

79. Micro-Cloud Point Extraction for Preconcentration of Aspirin in Commercial Tablets Prior to Spectrophotometric Determination

Massoud Kaykhaii,

JOURNAL OF ANALYTICAL CHEMISTRY Volume: (71) 844 - 848

80. Recent developments in methods of analysis for fluoride determination

Hossein Yahyavi, Massoud Kaykhaii, Majid Mirmoghaddam

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81. Porous High Capacity Coatings for Solid Phase Microextraction by Sputtering

Anubhav Diwan, Bhupinder Singh, Tuhin Roychowdhury, DanDan Yan, Laura Tedone, Pavel N. Nesterenko, B

ANALYTICAL CHEMISTRY Volume: (88) 1593 - 1600

82. Porous, High Capacity Coatings for Solid Phase Microextraction by Sputtering

Anubhav Diwan, Bhupinder Singh, Tuhin Roychowdhury, DanDan Yan, Laura Tedone, Pavel N. Nesterenko, B

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83. Comparison of single best artificial neural network and neural network ensemble in modeling of palladium micro-extraction

Effat Dehghanian, Massoud Kaykhaii

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84. حذف فتوکاتالیزستی تری اتیل فسفات با استفاده از نانوذرات اکسید روی از محیط‌های آبی

, Massoud Kaykhaii,

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85. مقایسه روش های شبکه عصبی تکی و جمعی جهت مدل کردن میکرو استخراج پالادیوم

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86. Developing a new micro cloud point extraction method for simultaneous precentration and spectrophotometric determination of uranium and vanadium in brine

Elham Ghasemi, Massoud Kaykhaii

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87. Molecularly Imprinted Polymers for Stir Bar Sorptive Extraction: Synthesis, Characterization and Application

, Massoud Kaykhaii,

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88. Application of in-syringe dispersive liquid-liquid microextraction and narrow-bore tube dispersive liquid-liquid microextraction for the determination of trace amounts of BTEX in water samples

Mashaallah Rahmani, Massoud Kaykhaii, Elham Ghasemi, Mohadeseh Tahernarnajad

JOURNAL OF CHROMATOGRAPHIC SCIENCE Volume: (53) 1210 - 1216

89. optimization of Affective Parameter on Cadmium removal from an aqueous solution by Citrullus colocynthis powdered fruits, by response surface

, Massoud Kaykhaii,

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90. Application of in-syringe dispersive liquid-liquid microextraction and narrow-bore tube dispersive liquid-liquid microextraction for the determination of trace amounts of benzene toluene ethylbenzene and xylene isomers in water samples prior to gas chromatographic analysis

Mashaallah Rahmani, Massoud Kaykhaii, , Mohadeseh Tahernarnajad

JOURNAL OF CHROMATOGRAPHIC SCIENCE Volume: (53) 1210 - 1216

91. Developing a New Micro Cloud Point Extraction Method for Simultaneous Preconcentration and Spectrophotometric Determination of Uranium and Vanadium in Brine

, Massoud Kaykhaii

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m p, Amin Ganjali, Massoud Kaykhaii

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93. Magnetic Molecularly Imprinted Polymer Nanoparticles for Selective Extraction of Copper from Aqueous Solutions prior to Its Flame Atomic Absorption Determination

Massoud Kaykhaii, mostafa khajeh, HOSSEIN HASHEMI

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95. Optimization of affective parameter on Cadmium Removal From an Aqueous Solution by Citrullus colocynthis Powdered Fruits by Response Surface

m r, Massoud Kaykhaii, gholamreza ebrahimzadeh

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استفاده از تکنیک میکرواستخراج فاز جامد-کوپل شده با کروماتوگرافی گازی اسپکترومتری جرمی. 96. برای استخراج، تغلیظ و شناسایی ترکیبات فرار آزاد شده در اثر تخریب ترمواکسیداسیونی پلی متیل متا کريلات

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, Nafiseh Haghpazir, , Massoud Kaykhaii

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98. Determination of BTEX compounds in fruit juices by gas chromatography after their extraction and preconcentration by narrow-bore tube dispersive liquid liquid microextraction

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99. Particle swarm optimization-artificial neural network modeling and optimization of leachable zinc from flour samples by miniaturized homogenous liquid-liquid microextraction

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100. Antiaflatoxigenic activity of Carum copticum essential oil

, , Massoud Kaykhaii

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101. Comparison of two novel in-syringe dispersive liquid-liquid microextraction techniques for the determination of iodide in water samples using spectrophotometry

Massoud Kaykhaii, Mona Sargazi

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102. Fischer-Tropsch synthesis Studies effect of reduction variables on the performance of Fe-Ni-Co catalyst

Hamhd reza Azizi, Ali Akbar Mirzaei, Massoud Kaykhaii,

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m r, jamshid piri, Massoud Kaykhaii

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106. Salt saturated single drop microextraction of gold from water samples and its determination by graphite furnace atomic absorption spectrometry

Massoud Kaykhaii,

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108. Rapid and sensitive determination of fluoride in toothpaste using headspace single drop microextraction - gas chromatography

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109. آزمایشگاهی بر روی یک تراشه

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110. کاربرد میکرواستخراج مایع- مایع پخشی در یک لوله باریک برای استخراج و پیش تغلیظ ترکیبات آروماتیک بنزنی از نمونه های آب میوه قبل از اندازه گیری آنها با کروماتوگرافی گازی مؤینه

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112. Room temperature ionic liquid-based dispersive liquid– liquid microextraction of uranium in water samples before spectrophotometric determination

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113. Rapid and sensitive determination of fluoride in toothpaste and water samples using headspace single drop microextraction-gas chromatography

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114. Molecularly imprinted stir bar sorptive extraction coupled with atomic absorption spectrometry for trace analysis of copper in drinking water samples

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117. Determination of methylcyclopentadienyl-manganese tricarbonyl in gasoline and water via ionic-liquid headspace single drop microextraction and electrothermal atomic absorption spectrometry

Mashaallah Rahmani, Massoud Kaykhaii

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134. Headspace liquid phase microextraction for quantitation of hexanal in potato crisps by gas chromatography (ISI)

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I Ciucanu, Massoud Kaykhaii, L Montero, J Pawliszyn, J Szubra

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Seyedeh Samaneh, Massoud Kaykhaii

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Sahar Marghzari, Massoud Kaykhaii,

3. Introducing the Corresponding Committee on Reference Materials of the Institute of Standards and Industrial Research of Iran (ISIRI/REMCO)

The 26th Iranian Seminar of Organic Chemistry

Massoud Kaykhaii, Mona Sargazi, Ehsan Kalantari

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6th Iranian Biennial Chemometrics Seminar

Saeideh Sanchooli, Effat Dehghanian, Massoud Kaykhaii

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6th Iranian Biennial Chemometrics Seminar

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, , , Massoud Kaykhaii

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13. Trace Determination of Copper By Dispersive Liquid-Liquid Microextraction method using UV-Vis Spectrophotometry

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14. Ionic liquid based dispersive liquid-liquid microextraction for spectrophotometric determination of uranium in water samples

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15. Copper determination in water samples by means of application of polyethylene glycol coated magnetic nanoparticles for selective extraction and preconcentration followed by graphite furnace atomic absorption spectrometry

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16. Analysis of the essential oils of *Salvia mirzayanii* means of microwave assisted extraction

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Massoud Kaykhaii

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20. Comparison of three techniques ultrasonic assisted headspace liquid phase microextraction ultrasonic assisted headspace solid phase microextraction and hydrodistillation for the determination of volatile compounds of

16th Iranian Seminar of Analytical Chemistry

, Massoud Kaykhaii, ,

21. Analysis of acrylamide in potato chips and crisps by Liquid-Liquid-Liquid Microextraction in combination with GC

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22. Comparison of hydrodistillation-headspace liquid phase microextraction technique with hydrodistillation for determination of volatile compounds of

16th Iranian Seminar of Analytical Chemistry

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23. Analysis of thermo oxidative degradation products of polyvinyl chloride by means of headspace liquid phase microextraction gas chromatography / tandem mass spectrometry

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24. Imprinted polymer particles for iron uptake synthesis characterization and analytical application

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25. Gas chromatographic-mass spectrometric determination of volatile components of Carum Copticum seeds using microwave assisted headspace solvent microextraction

16th Iranian Seminar of Analytical Chemistry

, Massoud Kaykhaii,

26. High sensitive analysis of Pb in tea by dispersive liquid-liquid microextraction combined with ultraviolet-visible spectrometry

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Massoud Kaykhaii,

27. Determination of acetone in milk by headspace solid-phase microextraction and gas chromatography

16th Iranian Seminar of Analytical Chemistry

Massoud Kaykhaii,

28. Determination of copper in aqueous samples by dispersive liquid liquid microextraction with graphite furnace atomic absorption spectrometry

16th Iranian Seminar of Analytical Chemistry

Massoud Kaykhaii,

29. Ultra-trace determination of anti-knock gasoline additive methylcyclopentadienyl-manganese tricarbonyl in environmental samples by headspace liquid phase microextraction-electrothermal atomic absorption spectroscopy

16th Iranian Seminar of Analytical Chemistry

Massoud Kaykhaii,

30. Measurement of fuel oxygenates in ground water of Sistan Balouchestan province using headspace single drop microextraction gas chromatography

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31. Effect of Season Change on Quantity and Quality of Rosmarinus Officinalis Essence Cultivated in Zahedan

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32. Kinetics and Mechanism of Potassium Persulphate/L-Serine Initiated Polymerization of Methylmethacrylate

33. Monitoring of Thermo Oxidative Degradation Products of HD-Polyethylene by Solid Phase Microextraction Gas Chromatography Mass Spectrometry (SPME GC MS)

2005

34. Determination of Hexanal as Indicator of the Lipidic Oxidation State in Potato Crisps by means of Headspace Liquid Phase Microextraction using Gas Chromatography

38. Electrochemical fibre coating technique for preparation of polypyrrole film on a stainless-steel wire and its application to the determination of a few aliphatic amines using headspace solid-phase microextraction

Massoud Kaykhaii

39. Membrane Extraction with a Sorbent Interface (MESI) as a New Sample Preparation Technique for Continuous GC-MS Analysis of Polymers Thermal Degradation Products

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Massoud Kaykhaii, ,

40. Application of SPME and MESI for Analysis of Thermo-oxidative Degradation of Polymers by Means of GC-MS/MS

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42. Btex Compounds Monitoring in Gas Station Air Using Solid Phase Microextraction and Capillary GC

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Massoud Kaykhaii,

43. Quantitative determination of diazepam nitrazepam and flunitrazepam in tablets using thin- layer chromatography densitometry technique

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Massoud Kaykhaii, M Bakavoli

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12th Iranian Seminar of Analytical Chemistry

Massoud Kaykhaii, ,

45. HS-LPME IN COMBINATION WITH GC FOR THE TRACE DETERMINATION OF ISOAMYL ACETATE

ACROSS Symposium on Advances in Separation Science

Massoud Kaykhaii,

Executive activities

مدیر گروه 09091399

from 1399/09/09 - now

آزمایشگاه مرکزی

from 1393/11/15 - to 1395/04/25

Research Project

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1. Determination of Trace Amounts of Radioactive Element in Water Samples of Villages Located alongside

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2. Determination of Polycyclic Aromatic Hydrocarbons in Water samples of Chahnimeh reservoirs by capill

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3. Determination of BTEX compounds in fruit juices by gas chromatography after their extraction and pre

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