Ali Reza Ghiasvand

List of Publications by Year
in descending order

116 papers	3,238 citations	159358 30 h-index	189595 50 g-index
118 all docs	118 docs citations	118 times ranked	2628 citing authors

#	Article	IF	Citations
1	A comprehensive look at solid-phase microextraction technique: A review of reviews. Microchemical Journal, 2020, 152, 104319.	2.3	165
2	Solid-Phase Extraction of Ultratrace Uranium(VI) in Natural Waters Using Octadecyl Silica Membrane Disks Modified by Tri-n-octylphosphine Oxide and Its Spectrophotometric Determination with Dibenzoylmethane. Analytical Chemistry, 1999, 71, 4892-4895.	3.2	123
3	New cold-fiber headspace solid-phase microextraction device for quantitative extraction of polycyclic aromatic hydrocarbons in sediment. Journal of Chromatography A, 2006, 1124, 35-42.	1.8	121
4	Amino ethyl-functionalized nanoporous silica as a novel fiber coating for solid-phase microextraction. Analytica Chimica Acta, 2009, 646, 1-5.	2.6	114
5	Recent advances in enhancing the sensitivity of electrophoresis and electrochromatography in capillaries and microchips (2016â€“2018). Electrophoresis, 2019, 40, 17-39.	1.3	113
6	Development of a simple device for dispersive liquidâ€“liquid microextraction with lighter than water organic solvents: Isolation and enrichment of glycyrrhizic acid from licorice. Analytica Chimica Acta, 2009, 655, 60-65.	2.6	110
7	Homogeneous liquidâ€“liquid extraction method for the selective separation and preconcentration of ultra trace molybdenum. Talanta, 2005, 66, 912-916.	2.9	107
8	Solid phase extraction of ultra trace copper(II) using octadecyl silica membrane disks modified by a naphthol-derivative Schiffâ€™s base. Analytica Chimica Acta, 2000, 408, 271-277.	2.6	97
9	Reversed-phase dispersive liquidâ€“liquid microextraction with central composite design optimization for preconcentration and HPLC determination of oleuropein. Talanta, 2010, 80, 1926-1931.	2.9	82
10	A solid-phase microextraction platinized stainless steel fiber coated with a multiwalled carbon nanotube-polyaniline nanocomposite film for the extraction of thymol and carvacrol in medicinal plants and honey. Journal of Chromatography A, 2015, 1406, 87-93.	1.8	82
11	Recent advances in stir-bar sorptive extraction: Coatings, technical improvements, and applications. Analytica Chimica Acta, 2020, 1139, 222-240.	2.6	66
12	Determination of flavour profile in Iranian fragrant rice samples using cold-fibre SPMEâ€“GCâ€“TOFâ€“MS. Flavour and Fragrance Journal, 2007, 22, 377-391.	1.2	64
13	Selective preconcentration of ultra trace copper(II) using octadecyl silica membrane disks modified by a recently synthesized glyoxime derivative. Talanta, 2004, 62, 287-292.	2.9	60
14	New extraction media in microextraction techniques. A review of reviews. Microchemical Journal, 2020, 153, 104386.	2.3	57
15	Extraction of uranium from solid matrices using modified supercritical fluid CO2. Journal of Supercritical Fluids, 2001, 20, 163-169.	1.6	56
16	Removal of methylene blue and acid orange 7 from aqueous solutions by activated carbon coated with zinc oxide (ZnO) nanoparticles: equilibrium, kinetic, and thermodynamic study. Desalination and Water Treatment, 2015, 55, 252-262.	1.0	54
17	Solid-phase microextraction technique for sampling and preconcentration of polycyclic aromatic hydrocarbons: A review. Microchemical Journal, 2020, 157, 104967.	2.3	51
18	A needle trap device packed with a solâ€“gel derived, multi-walled carbon nanotubes/silica composite for sampling and analysis of volatile organohalogen compounds in air. Analytica Chimica Acta, 2013, 785, 67-74.	2.6	49

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19	Cooling/heating-assisted headspace solid-phase microextraction of polycyclic aromatic hydrocarbons from contaminated soils. Analytica Chimica Acta, 2015, 900, 56-66.	2.6	47
20	Amino-silica/graphene oxide nanocomposite coated cotton as an efficient sorbent for needle trap device. Analytica Chimica Acta, 2017, 975, 11-19.	2.6	46
21	CMK-3 nanoporous carbon as a new fiber coating for solid-phase microextraction coupled to gas chromatographyâ€“mass spectrometry. Analytica Chimica Acta, 2011, 695, 58-62.	2.6	44
22	Direct determination of acrylamide in potato chips by using headspace solid-phase microextraction coupled with gas chromatography-flame ionization detection. Talanta, 2016, 146, 417-422.	2.9	44
23	A novel needle trap device with single wall carbon nanotubes solâ€“gel sorbent packed for sampling and analysis of volatile organohalogen compounds in air. Talanta, 2012, 101, 314-321.	2.9	42
24	Simultaneous analysis of PAHs and BTEX in soil by a needle trap device coupled with GC-FID and using response surface methodology involving Box-Behnken design. Analytica Chimica Acta, 2019, 1083, 119-129.	2.6	41
25	Cooling-assisted microextraction: Comparison of techniques and applications. TrAC - Trends in Analytical Chemistry, 2016, 77, 54-65.	5.8	39
26	Chemometrics-assisted investigation of interactions of Tasmar with human serum albumin at a glassy carbon disk: Application to electrochemical biosensing of electro-inactive serum albumin. Journal of Pharmaceutical and Biomedical Analysis, 2018, 156, 23-35.	1.4	35
27	Graphene packed needle trap device as a novel field sampler for determination of perchloroethylene in the air of dry cleaning establishments. Talanta, 2015, 131, 142-148.	2.9	34
28	A comparison study on a sulfonated graphene-polyaniline nanocomposite coated fiber for analysis of nicotine in solid samples through the traditional and vacuum-assisted HS-SPME. Journal of Pharmaceutical and Biomedical Analysis, 2018, 149, 271-277.	1.4	34
29	Study of the Essential Oil Composition of Cumin Seeds by an Amino Ethyl-Functionalized Nanoporous SPME Fiber. Chromatographia, 2009, 70, 1147-1151.	0.7	33
30	Comparison of Headspace Solidâ€phase Microextraction, Headspace Singleâ€drop Microextraction and Hydrodistillation for Chemical Screening of Volatiles in Myrtus Communis L. Phytochemical Analysis, 2012, 23, 379-386.	1.2	31
31	Design and optimization of the VA-TV-SPME method for ultrasensitive determination of the PAHs in polluted water. Talanta, 2020, 212, 120809.	2.9	31
32	Liquid-phase microextraction of polycyclic aromatic hydrocarbons: A review. Reviews in Analytical Chemistry, 2020, 39, 1-19.	1.5	31
33	Simple, Low-Cost and Reliable Device for Vacuum-Assisted Headspace Solid-Phase Microextraction of Volatile and Semivolatile Compounds from Complex Solid Samples. Chromatographia, 2017, 80, 1771-1780.	0.7	30
34	Solubility determination of nitrophenol derivatives in supercritical carbon dioxide. Journal of Supercritical Fluids, 2002, 23, 225-231.	1.6	29
35	Homogeneous Liquid-Liquid Extraction of Uranium(VI) Using Tri-n-octylphosphine Oxide. Analytical Sciences, 2004, 20, 917-919.	0.8	29
36	Survey of iron, zinc, calcium, copper, lead, and cadmium in rice samples grown in Iran. Food Additives and Contaminants: Part B Surveillance, 2010, 3, 80-83.	1.3	29

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37	Random Forests machine learning applied to gas chromatography â€“ Mass spectrometry derived average mass spectrum data sets for classification and characterisation of essential oils. Talanta, 2020, 208, 120471.	2.9	29
38	Determination of Silver(I) by Electrothermal-AAS in a Microdroplet Formed from a Homogeneous Liquid-Liquid Extraction System Using Tetraspirocyclohexylcalix[4]pyrroles. Analytical Sciences, 2005, 21, 387-390.	0.8	28
39	Chemical Characterization of Cultivated Tagetes minuta L. by Use of Ultrasound-Assisted Head Space SPME and GCâ€“MS. Chromatographia, 2011, 73, 1031-1035.	0.7	28
40	Reversed-Phase Dispersive Liquid-Liquid Microextraction with Multivariate Optimization for Sensitive HPLC Determination of Tyrosol and Hydroxytyrosol in Olive Oil. Analytical Sciences, 2011, 27, 943.	0.8	27
41	Development of Carbotrap B-packed needle trap device for determination of volatile organic compounds in air. Journal of Chromatography A, 2017, 1527, 33-42.	1.8	26
42	Bioanalytical Applications of Microextraction Techniques: A Review of Reviews. Chromatographia, 2020, 83, 567-577.	0.7	26
43	Solubilities of Some Hydroxyxanthone Derivatives in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 1999, 44, 1135-1138.	1.0	25
44	Enrichment and Separation of Cationic, Neutral, and Chiral Analytes by Micelle to Cyclodextrin Stackingâ€“Micellar Electrokinetic Chromatography. Analytical Chemistry, 2019, 91, 1752-1757.	3.2	25
45	Application of graphene nanoplatelets silica composite, prepared by sol-gel technology, as a novel sorbent in two microextraction techniques. Journal of Separation Science, 2015, 38, 4225-4232.	1.3	24
46	Single-step reinforced microextraction of polycyclic aromatic hydrocarbons from soil samples using an inside needle capillary adsorption trap with electropolymerized aniline/multi-walled carbon nanotube sorbent. Journal of Chromatography A, 2017, 1487, 47-53.	1.8	24
47	Comparison of the atmospheric- and reduced-pressure HS-SPME strategies for analysis of residual solvents in commercial antibiotics using a steel fiber coated with a multiwalled carbon nanotube/polyaniline nanocomposite. Analytical and Bioanalytical Chemistry, 2018, 410, 361-371.	1.9	23
48	Iron oxide/silica/polypyrrole nanocomposite sorbent for the comparison study of direct-immersion and headspace solid-phase microextraction of aldehyde biomarkers in human urine. Journal of Pharmaceutical and Biomedical Analysis, 2018, 159, 37-44.	1.4	23
49	Heating-, Cooling- and Vacuum-Assisted Solid-Phase Microextraction (HCV-SPME) for Efficient Sampling of Environmental Pollutants in Complex Matrices. Chromatographia, 2020, 83, 531-540.	0.7	23
50	Flow injection spectrophotometric determination of trace amounts of selenium. Talanta, 1998, 46, 1011-1017.	2.9	22
51	A high area, porous and resistant platinized stainless steel fiber coated by nanostructured polypyrrole for direct HS-SPME of nicotine in biological samples prior to GC-FID quantification. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1061-1062, 5-10.	1.2	20
52	Reinforced microextraction of polycyclic aromatic hydrocarbons from polluted soil samples using an in-needle coated fiber with polypyrrole/graphene oxide nanocomposite. Journal of Separation Science, 2017, 40, 2975-2983.	1.3	19
53	Evaluation of a cooling/heating-assisted microextraction instrument using a needle trap device packed with aminosilica/graphene oxide nanocomposites, covalently attached to cotton. Analyst, The, 2018, 143, 2632-2640.	1.7	19
54	Cooling assisted headspace microextraction by packed sorbent coupled to HPLC for the determination of volatile polycyclic aromatic hydrocarbons in soil. Analytica Chimica Acta, 2020, 1125, 128-134.	2.6	19

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55	Fused-silica capillary internally modified with nanostructured octadecyl silica for dynamic in-tube solid-phase microextraction of polycyclic aromatic hydrocarbons from aqueous media. Microchemical Journal, 2020, 155, 104672.	2.3	19
56	Preconcentration of Ultra Trace Hg(Ii) in Aqueous Samples on Octadecyl Silica Membrane Disks Modified by Dibenzodiazathia-18-Crown-6-Dione and Its Determination by Cold Vapor Atomic Absorption Spectrometry. International Journal of Environmental Analytical Chemistry, 2002, 82, 23-30.	1.8	18
57	Selective homogeneous liquid-liquid extraction and preconcentration of copper(II) into a micro droplet using a benzo-substituted macrocyclic diamide, and its determination by electrothermal atomic absorption spectrometry. Mikrochimica Acta, 2010, 168, 115-121.	2.5	18
58	A study of the effects of cultivation variety, collection time, and climate on the amount of oleuropein in olive leaves. Acta Chromatographica, 2010, 22, 133-140.	0.7	17
59	Field application of SPME as a novel tool for occupational exposure assessment with inhalational anesthetics. Environmental Monitoring and Assessment, 2012, 184, 6483-6490.	1.3	17
60	Determination of BTEX in urine samples using cooling/heating-assisted headspace solid-phase microextraction. Chemical Papers, 2017, 71, 1829-1838.	1.0	17
61	Data handling and data analysis in metabolomic studies of essential oils using GC-MS. Journal of Chromatography A, 2021, 1640, 461896.	1.8	17
62	Solubilities of Some 9-Anthrone Derivatives in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2001, 46, 1371-1374.	1.0	16
63	Preparation of a Novel Agarose-Salen Adsorbent, and its Use for Efficient Column Preconcentration and Flame AAS Determination of Lead in Water. Mikrochimica Acta, 2005, 150, 147-151.	2.5	15
64	A Comparative Study of Hydrodistillation and Hydrodistillationâ€“Solvent Microextraction Methods for Identification of Volatile Components of Echinophora cinerea. Chromatographia, 2009, 69, 179-182.	0.7	15
65	Highly sensitive and selective determination of uranium in natural waters through a novel solidified floating organic drop microextraction method coupled with spectrophotometric determination. Analytical Methods, 2014, 6, 5992-5998.	1.3	15
66	Cooling-Assisted Headspace Hollow Fiber-Based Liquid-Phase Microextraction Setup for Direct Determination of PAHs in Solid Samples by Using Volatile Solvents. Chromatographia, 2016, 79, 1187-1195.	0.7	15
67	Ultrasensitive direct determination of BTEX in polluted soils using a simple and novel pressure-controlled solid-phase microextraction setup. Journal of the Iranian Chemical Society, 2018, 15, 1051-1059.	1.2	15
68	Selective separation of essential phenolic compounds from olive oil mill wastewater using a bulk liquid membrane. Chemical Papers, 2013, 67, .	1.0	14
69	Application of needle trap device packed with Amberlite XAD-2 resin prepared by sol-gel method for reproducible sampling of aromatic amines in air. Microchemical Journal, 2018, 143, 127-132.	2.3	14
70	A review on magnetic field-assisted solid-phase microextraction techniques. Journal of Liquid Chromatography and Related Technologies, 2020, 43, 75-82.	0.5	14
71	Applications of nanomaterials in ambient ionization mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 136, 116202.	5.8	14
72	Magnetic Field-Assisted Direct Immersion SPME of Endogenous Aldehydes in Human Urine. Chromatographia, 2018, 81, 1579-1587.	0.7	13

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73	Synthesis and characterization of MILâ€101(Cr) intercalated by polyaniline composite, doped with silica nanoparticles and its evaluation as an efficient solidâ€phase extraction sorbent. Journal of Separation Science, 2018, 41, 3910-3917.	1.3	13
74	A Needle Trap Device Packed with Nanoporous Silica Sorbents for Separation and Gas Chromatographic Determination of Polycyclic Aromatic Hydrocarbons in Contaminated Soils. Journal of Chromatographic Science, 2018, 56, 771-778.	0.7	13
75	Small-Footprint, Field-Deployable LC/MS System for On-Site Analysis of Per- and Polyfluoroalkyl Substances in Soil. Analytical Chemistry, 2021, 93, 12032-12040.	3.2	13
76	Preparation of a New Solidâ€Phase Microextraction Fiber by Coating Silylated Nanoporous Silica on a Copper Wire. Journal of the Chinese Chemical Society, 2012, 59, 727-732.	0.8	12
77	Thread-based isoelectric focusing coupled with desorption electrospray ionization mass spectrometry. Analyst, The, 2020, 145, 6928-6936.	1.7	12
78	A fast and simple method for determination of Î²-carotene in commercial fruit juice by cloud point extraction-cold column trapping combined with UVâ€“Vis spectrophotometry. Food Chemistry, 2021, 343, 128481.	4.2	12
79	A platinized stainless steel fiber with inâ€situ coated polyaniline/polypyrrole/graphene oxide nanocomposite sorbent for headspace solidâ€phase microextraction of aliphatic aldehydes in rice samples. Biomedical Chromatography, 2017, 31, e4024.	0.8	11
80	Synthesis of a New Î±-Dioxime Derivative and Its Application for Selective Homogeneous Liquid-Liquid Extraction of Cu(II) into a Microdroplet Followed by Direct GFAAS Determination. Bulletin of the Korean Chemical Society, 2005, 26, 781-785.	1.0	11
81	Solubilities of Chelating Ligands Dibenzoylmethane, 1,10-Phenanthroline, and 8-Hydroxyquinoline in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2004, 49, 1483-1486.	1.0	10
82	Experimental and computational study on the aqueous acidity constants of some new aminobenzoic acid compounds. Journal of Molecular Liquids, 2009, 149, 60-65.	2.3	10
83	Evaluation of polypyrrole/silver/polyethylene glycol nanocomposite sorbent for electroenhanced direct-immersion solid-phase microextraction of carvacrol and thymol from medicinal plants. Journal of the Iranian Chemical Society, 2018, 15, 2585-2592.	1.2	10
84	Thread-based isotachophoresis coupled with desorption electrospray ionization mass spectrometry for clean-up, preconcentration, and determination of alkaloids in biological fluids. Analytica Chimica Acta, 2022, 1193, 338810.	2.6	10
85	SPME-based air sampling method for inhalation exposure assessment studies: case study on perchlorethylene exposure in dry cleaning. Environmental Monitoring and Assessment, 2013, 185, 4933-4941.	1.3	9
86	Comparison of Ultrasound-Assisted Headspace Solid-Phase Microextraction and Hydrodistillation for the Identification of Major Constituents in Two Species ofHypericum. Journal of Chromatographic Science, 2015, 54, bmv136.	0.7	9
87	Nanostructured octadecylsilica chemically coated stainless-steel fiber for vacuum-assisted HS-SPME sampling of PAHs in soil. Microchemical Journal, 2020, 158, 105201.	2.3	9
88	Optimization of smartphone-based on-site-capable uranium analysis in water using a 3D printed microdevice. Analytical and Bioanalytical Chemistry, 2021, 413, 3243-3251.	1.9	9
89	Determination of Inhalational Anesthetics in Field and Laboratory by SPME GC/MS. Analytical Letters, 2012, 45, 375-385.	1.0	8
90	Use of volatile organic solvents in headspace liquidâ€phase microextraction by direct cooling of the organic drop using a simple cooling capsule. Journal of Separation Science, 2016, 39, 3011-3018.	1.3	8

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91	Spherical agarose-coated magnetic nanoparticles functionalized with a new salen for magnetic solid-phase extraction of uranyl ion. Mikrochimica Acta, 2016, 183, 2449-2455.	2.5	8
92	An ultrasound-assisted pressure-regulated solid-phase microextraction setup for fast and sensitive analysis of volatile pollutants in contaminated soil. Environmental Science and Pollution Research, 2020, 27, 36306-36315.	2.7	8
93	Headspace solidâ€phase microextraction sampling of endogenous aldehydes in biological fluids using a magnetic metalâ€organic framework/polyaniline nanocomposite. Journal of Separation Science, 2021, 44, 1130-1139.	1.3	8
94	Fabrication and evaluation of a portable low-pressure headspace solid-phase microextraction device for on-site analysis. Microchemical Journal, 2021, 168, 106362.	2.3	8
95	Microextraction techniques for sampling and determination of polychlorinated biphenyls: A comprehensive review. Microchemical Journal, 2022, 179, 107442.	2.3	8
96	A new optical sensor for selective quantitation of uranium by the immobilization of arsenazo III on an agarose membrane. Analytical Methods, 2016, 8, 4181-4187.	1.3	7
97	Determination of benzene, toluene, ethylbenzene and xylene in field and laboratory by means of cold fiber SPME equipped with thermoelectric cooler and GC/FID method. Polish Journal of Chemical Technology, 2017, 19, 9-15.	0.3	7
98	Characterisation of complex perfume and essential oil blends using multivariate curve resolution-alternating least squares algorithms on average mass spectrum from GC-MS. Talanta, 2020, 219, 121208.	2.9	7
99	Comparison of the Conventional and Electroenhanced Direct-Immersion Solid-Phase Microextraction for Sampling of Nicotine in Biological Fluids of the Human Body. Molecules, 2018, 23, 1171.	1.7	6
100	Chromium-Based Polypyrrole/MIL-101 Nanocomposite as an Effective Sorbent for Headspace Microextraction of Methyl tert-Butyl Ether in Soil Samples. Molecules, 2020, 25, 644.	1.7	6
101	Headspace microextraction of tin into an aqueous microdrop containing pd(II) and tributyl phosphate for its determination by ETAAS. Journal of the Brazilian Chemical Society, 2007, 18, 1145-1149.	0.6	5
102	Separation and sensitive determination of quercetin in Rosa canina L. using solidified floating organic drop microextraction followed by high-performance liquid chromatography determination. Journal of the Iranian Chemical Society, 2017, 14, 1113-1118.	1.2	5
103	Preparation of Carbotrap/silica composite for needle trap field sampling of halogenated volatile organic compounds followed by gas chromatography/mass spectrometry determination. Journal of Environmental Health Science & Engineering, 2019, 17, 1045-1053.	1.4	5
104	Headspace-solvent microextraction for identification of volatile components ofMyrtus communisL.. Acta Chromatographica, 2009, 21, 139-149.	0.7	5
105	Nanomaterial-assisted thread-based isotachophoresis with on-thread solute trapping. Analyst, The, 2022, 147, 1944-1951.	1.7	5
106	A Simple Device for Collection of Extraction Phase in Dispersive Liquid-Liquid Microextraction Method Based on Solidification of Floating Organic Droplet for Sensitive Determination of Curcumin in Human Serum. Analytical Chemistry Letters, 2013, 3, 92-101.	0.4	4
107	Reduced-Pressure Fiber-in-Needle Sampling of Aldehydes for Room Temperature Assessment of Edible Oilsâ€™ Oxidative Stability. Chromatographia, 2019, 82, 1405-1414.	0.7	3
108	Biomass-derived carbon nanospheres decorated by manganese oxide nanosheets, intercalated into polypyrrole, as an inside-needle capillary adsorption trap sorbent for the analysis of linear alkylbenzenes. Talanta, 2021, 233, 122583.	2.9	3

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109	Magnetic field-assisted solid-phase extraction of nucleoside drugs using Fe₃O₄@PANI core/shell nanocomposite. Journal of Liquid Chromatography and Related Technologies, 2020, 43, 733-741.	0.5	2
110	Mimic Nature Using Chemotaxis of Ionic Liquid Microdroplets for Drug Delivery Purposes. Molecules, 2022, 27, 786.	1.7	2
111	Development of Solid Phase Microextraction for Determination of Carbon tetrachloride and Chloroform in Air by Gas Chromatography-Mass Spectrometry. MuhandisÄ«-i BihdÄsht-i á¸¥irfah/Ä«, 2016, 3, 17-24.	0.2	0
112	Electro-enhanced Ion Transport through Bulk-Liquid Membrane. International Journal of Electrochemical Science, 0, , 8561-8570.	0.5	0
113	The Effects of Environmental Parameters on Air Sampling with SPME from Halogenated Hydrocarbons. Health Scope, 2016, 6, .	0.4	0
114	The Effects of Environmental Parameters on Air Sampling with SPME from Halogenated Hydrocarbons. Health Scope, 2016, In press, .	0.4	0
115	Microextraction and Determination of Poly- and Perfluoroalkyl Substances, Challenges, and Future Trends. Critical Reviews in Analytical Chemistry, 2021, , 1-20.	1.8	0
116	The comparison of two microextraction methods for the determination of safranal from Iranian saffron. , 2022, , 100021.		0