

Reza Sahraei

List of Publications by Year in descending order

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106
papers

4,715
citations

87723

38
h-index

102304

66
g-index

107
all docs

107
docs citations

107
times ranked

4674
citing authors

#	ARTICLE	IF	CITATIONS
1	Antireflective and nanocolumnar-shaped Mn:ZnO films grown by chemical bath deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115634.	1.7	2
2	Rational design of chemical bath deposition technique for successful preparation of Mn-doped CdS nanostructured thin films with controlled optical properties. <i>Ceramics International</i> , 2021, 47, 5523-5533.	2.3	11
3	Long-time stable colloidal Zn ²⁺ /Ag ⁺ /In ³⁺ /S quantum dots with tunable midgap-involved emission. <i>Journal of Applied Physics</i> , 2021, 129, 063107.	1.1	6
4	Highly luminescent ZnCdTeS nanocrystals with wide spectral tunability for efficient color-conversion white-light-emitting-diodes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 505110.	1.3	7
5	Improved chemical deposition of cobalt-doped CdS nanostructured thin films via nucleation-doping strategy: Surface and optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115328.	1.7	9
6	AgNPs/QDs@GQDs nanocomposites developed as an ultrasensitive impedimetric aptasensor for ractopamine detection. <i>Materials Science and Engineering C</i> , 2020, 108, 110507.	3.8	30
7	Enhanced electrochemical and electro-optical properties of nematic liquid crystal doped with Ni:ZnCdS/ZnS core/shell quantum dots. <i>Journal of Molecular Liquids</i> , 2020, 320, 114373.	2.3	25
8	Colloidal synthesis of tunably luminescent AgInS-based/ZnS core/shell quantum dots as biocompatible nano-probe for high-contrast fluorescence bioimaging. <i>Materials Science and Engineering C</i> , 2020, 111, 110807.	3.8	29
9	Preparation of highly emissive and reproducible Cu ²⁺ /In ³⁺ /S/ZnS core/shell quantum dots with a mid-gap emission character. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153906.	2.8	16
10	Synthesis and optimization of emission characteristics of water-dispersible ag-in-s quantum dots and their bactericidal activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110389.	2.5	24
11	An electrochemical tyrosinamide aptasensor using a glassy carbon electrode modified by N-acetyl-L-cysteine-capped Ag-In-S QDs. <i>Materials Science and Engineering C</i> , 2019, 102, 653-660.	3.8	15
12	Multi-colored type-I Ag-doped ZnCdS/ZnS core/shell quantum dots with intense emission. <i>Ceramics International</i> , 2019, 45, 11501-11507.	2.3	15
13	Deep eutectic solvent-based emulsification liquid-liquid microextraction coupled with gas chromatography for the determination of thiophenols in water samples. <i>Analytical Methods</i> , 2019, 11, 1663-1670.	1.3	12
14	Facile and versatile preparation of full-color emissive Fe-doped ZnCdSe/ZnS core/shell quantum dots by a novel aqueous-based colloidal approach. <i>Journal of Luminescence</i> , 2019, 205, 525-531.	1.5	7
15	Facile preparation of yellow and red emitting ZnCdSeS quantum dots and their third-order nonlinear optical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 64-70.	1.9	11
16	Hydrazine-assisted preparation of ZnS nanocrystals using N-acetyl-L-cysteine as capping agent. <i>Modern Physics Letters B</i> , 2018, 32, 1850254.	1.0	3
17	Luminescent, low-toxic and stable gradient-alloyed Fe:ZnSe(S)/ZnSe(S) core:shell quantum dots as a sensitive fluorescent sensor for lead ions. <i>Nanotechnology</i> , 2018, 29, 445602.	1.3	21
18	Aqueous-based synthesis of Cd-free and highly emissive Fe-doped ZnSe(S)/ZnSe(S) core/shell quantum dots with antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 520-530.	5.0	17

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19	pH-dependent optical properties of N-acetyl-L-cysteine-capped ZnSe(S) nanocrystals with intense/stable emissions. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	16
20	Preparation of Highly Biocompatible ZnSe Quantum Dots Using a New Source of Acetyl Cysteine as Capping Agent. <i>Journal of Fluorescence</i> , 2017, 27, 1581-1586.	1.3	6
21	Synthesis and photoluminescence properties of Ru-doped ZnS quantum dots. <i>Journal of Luminescence</i> , 2017, 187, 421-427.	1.5	28
22	Facile, one-pot and scalable synthesis of highly emissive aqueous-based Ag,Ni:ZnCdS/ZnS core/shell quantum dots with high chemical and optical stability. <i>Nanotechnology</i> , 2017, 28, 475604.	1.3	13
23	Optical Dispersion, Permittivity Spectrum and Thermal-Lensing Effect in Nickel-Doped Zinc Sulfide Nanoparticles. <i>Journal of Electronic Materials</i> , 2017, 46, 6473-6479.	1.0	5
24	Aqueous based synthesis of N-acetyl-L-cysteine capped ZnSe nanocrystals with intense blue emission. <i>Optical Materials</i> , 2016, 60, 564-570.	1.7	20
25	Effect of deposition temperature on structural and optical properties of chemically grown nanocrystalline Ni doped ZnS thin films. <i>Journal of Alloys and Compounds</i> , 2016, 658, 780-787.	2.8	22
26	A green ultrasonic-assisted liquid-liquid microextraction based on deep eutectic solvent for the HPLC-UV determination of ferulic, caffeic and cinnamic acid from olive, almond, sesame and cinnamon oil. <i>Talanta</i> , 2016, 150, 577-585.	2.9	229
27	Removal of V(V) ions from aqueous solutions using oxidized multi-walled carbon nanotubes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2015, 64, 425-433.	0.6	8
28	An investigation on optical characteristics of nanocrystalline ZnS:Ni thin films prepared by chemical deposition method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 941-948.	2.0	20
29	Emulsification liquid-liquid microextraction based on deep eutectic solvent: An extraction method for the determination of benzene, toluene, ethylbenzene and seven polycyclic aromatic hydrocarbons from water samples. <i>Journal of Chromatography A</i> , 2015, 1425, 25-33.	1.8	152
30	Isotherm and kinetics study of malachite green adsorption onto copper nanowires loaded on activated carbon: Artificial neural network modeling and genetic algorithm optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 135-149.	2.0	96
31	Synthesis and application of ion-imprinted polymer nanoparticles for the determination of nickel ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 534-543.	2.0	36
32	SnO ₂ nanoparticle-loaded activated carbon for simultaneous removal of Acid Yellow 41 and Sunset Yellow; derivative spectrophotometric, artificial neural network and optimization approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 1002-1012.	2.0	21
33	Ultrasonic assisted removal of sunset yellow from aqueous solution by zinc hydroxide nanoparticle loaded activated carbon: Optimized experimental design. <i>Materials Science and Engineering C</i> , 2015, 52, 82-89.	3.8	34
34	Nonlinear optical properties of CdTe nanocrystals synthesized by a green room temperature solution method. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 567-572.	1.1	10
35	Catalysis effect of micro-hydration on the intramolecular proton transfer in cytosine. <i>Chemical Physics Letters</i> , 2015, 629, 1-7.	1.2	8
36	Growth of nanocrystalline CuS thin films at room temperature by a facile chemical deposition method. <i>RSC Advances</i> , 2015, 5, 77354-77361.	1.7	25

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37	Extraction of ultra-traces of lead, chromium and copper using ruthenium nanoparticles loaded on activated carbon and modified with N,N-bis-(1±-methylsalicylidene)-2,2-dimethylpropane-1,3-diamine. <i>Mikrochimica Acta</i> , 2015, 182, 1187-1196.	2.5	27
38	Ultrasound assisted microextraction-nano material solid phase dispersion for extraction and determination of thymol and carvacrol in pharmaceutical samples: Experimental design methodology. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 975, 34-39.	1.2	46
39	Optimization of combined ultrasonic assisted/tin sulfide nanoparticle loaded on activated carbon removal of erythrosine by response surface methodology. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 459-469.	2.9	39
40	Characterization of zinc oxide nanorods loaded on activated carbon as cheap and efficient adsorbent for removal of methylene blue. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 986-993.	2.9	69
41	Synthesis and application of ion-imprinted polymer nanoparticles for the extraction and preconcentration of zinc ions. <i>Food Chemistry</i> , 2015, 173, 266-273.	4.2	44
42	A new catalytic-spectrophotometry method for sensitive determination of Acid Red 18 in water samples using silver nanoparticles. <i>Main Group Chemistry</i> , 2014, 13, 23-28.	0.4	1
43	Physisorption & Chemisorption of Oxygen Molecules on Single- and Multi-walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 434-453.	1.0	4
44	Optimization of the combined ultrasonic assisted/adsorption method for the removal of malachite green by gold nanoparticles loaded on activated carbon: Experimental design. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 55-65.	2.0	191
45	Application of experimental design for removal of sunset yellow by copper sulfide nanoparticles loaded on activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2663-2670.	2.9	35
46	Optimization of the ultrasonic assisted removal of methylene blue by gold nanoparticles loaded on activated carbon using experimental design methodology. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 242-252.	3.8	270
47	Preparation of nanocrystalline Ni doped ZnS thin films by ammonia-free chemical bath deposition method and optical properties. <i>Journal of Luminescence</i> , 2014, 149, 170-175.	1.5	52
48	Experimental design based response surface methodology optimization of ultrasonic assisted adsorption of safranin O by tin sulfide nanoparticle loaded on activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 223-231.	2.0	145
49	Principal component analysis-artificial neural network and genetic algorithm optimization for removal of reactive orange 12 by copper sulfide nanoparticles-activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 787-795.	2.9	48
50	Competitive adsorption of Direct Yellow 12 and Reactive Orange 12 on ZnS:Mn nanoparticles loaded on activated carbon as novel adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 564-571.	2.9	58
51	Kinetic and isotherm study of Bromothymol Blue and Methylene blue removal using Au-NP loaded on activated carbon. <i>Desalination and Water Treatment</i> , 2014, 52, 5504-5512.	1.0	23
52	A new catalytic oxidation method for sensitive quantification of bromate in flours and bottled water using AgNPs. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1371-1375.	1.3	7
53	Synthesis of nickel sulfide nanoparticles loaded on activated carbon as a novel adsorbent for the competitive removal of Methylene blue and Safranin-O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 402-409.	2.0	93
54	Removal of Acid Red 299 dye on gold nanoparticles loaded on activated carbon: kinetic and thermodynamic investigation of the removal process. <i>Desalination and Water Treatment</i> , 2014, 52, 5494-5503.	1.0	6

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55	Application of high order derivative spectrophotometry to resolve the spectra overlap between BG and MB for the simultaneous determination of them: Ruthenium nanoparticle loaded activated carbon as adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2421-2427.	2.9	45
56	Simultaneous ultrasound-assisted removal of sunset yellow and erythrosine by ZnS:Ni nanoparticles loaded on activated carbon: Optimization by central composite design. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1441-1450.	3.8	77
57	Silver nanoparticle-based spectrophotometric method for quantification of Nile blue A in river water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1581-1583.	2.9	0
58	Synthesis and characterization of zinc sulfide nanoparticles loaded on activated carbon for the removal of methylene blue. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 535-542.	1.3	31
59	ZnS:Cu nanoparticles loaded on activated carbon as novel adsorbent for kinetic, thermodynamic and isotherm studies of Reactive Orange 12 and Direct yellow 12 adsorption. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 687-694.	2.0	72
60	A nanosilver-based spectrophotometry method for sensitive determination of tartrazine in food samples. <i>Food Chemistry</i> , 2013, 138, 1239-1242.	4.2	67
61	Palladium, silver, and zinc oxide nanoparticles loaded on activated carbon as adsorbent for removal of bromophenol red from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1209-1217.	2.9	102
62	Amperometric detection of hydrogen peroxide at nano-ruthenium oxide/riboflavin nanocomposite-modified glassy carbon electrodes. <i>Electrochimica Acta</i> , 2013, 113, 134-140.	2.6	38
63	Removal of Reactive Orange 12 from aqueous solutions by adsorption on tin sulfide nanoparticle loaded on activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 756-763.	2.9	80
64	Structural, optical, and electrical properties of thioglycolic acid-capped CdTe quantum dots thin films. <i>International Nano Letters</i> , 2013, 3, 1.	2.3	14
65	Catalytic Oxidation of Indigo Carmine in the Presence of Silver Nanoparticles: Application to Groundwater Analysis. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 195-198.	0.8	5
66	Comparison of the influence of nanomaterials on response properties of copper selective electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1356-1364.	2.9	25
67	Optical properties of nanocrystalline ZnS:Mn thin films prepared by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 260-266.	1.1	34
68	A new nanosilver-based spectrophotometric method for monitoring Eriochrome black T in river water. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7037-7041.	1.3	0
69	Comparison of removal of bromothymol blue from aqueous solution by multiwalled carbon nanotube and Zn(OH) ₂ nanoparticles loaded on activated carbon: A thermodynamic study. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1493-1500.	2.9	26
70	Study of removal of Direct Yellow 12 by cadmium oxide nanowires loaded on activated carbon. <i>Materials Science and Engineering C</i> , 2013, 33, 2258-2265.	3.8	36
71	SYNTHESIS AND CHARACTERIZATION OF CADMIUM SULFIDE NANOPARTICLE-LOADED ACTIVATED CARBON AS A NOVEL ADSORBENT FOR EFFICIENT REMOVAL OF REACTIVE ORANGE 12. <i>Chemical Engineering Communications</i> , 2013, 200, 1071-1088.	1.5	4
72	A nanosilver-based spectrophotometric method for determination of malachite green in surface water samples. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 5817-5822.	1.3	14

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73	Comparison of nickel and/or zinc selenide nanoparticle loaded on activated carbon as efficient adsorbents for kinetic and equilibrium study of removal of Arsenazo (TM) dye. Powder Technology, 2013, 245, 217-226.	2.1	74
74	Sensitive nanosilver-based spectrophotometric determination of Brilliant Blue FCF in surface water samples. Water Science and Technology, 2013, 67, 2302-2306.	1.2	3
75	Removal of Janus Green dye from aqueous solutions using oxidized multi-walled carbon nanotubes. Toxicological and Environmental Chemistry, 2013, 95, 909-918.	0.6	53
76	A nanosilver-based spectrophotometric method for sensitive determination of methyl violet in river water. Toxicological and Environmental Chemistry, 2013, 95, 214-220.	0.6	1
77	Spectrophotometry determination of Congo red in river water samples using nanosilver. Toxicological and Environmental Chemistry, 2012, 94, 1886-1892.	0.6	6
78	Room temperature synthesis and characterization of ultralong Cd(OH) ₂ nanowires: a simple and template-free chemical route. Applied Physics A: Materials Science and Processing, 2012, 109, 471-475.	1.1	6
79	Comparison of Activated Carbon, Multiwalled Carbon Nanotubes, and Cadmium Hydroxide Nanowire Loaded on Activated Carbon as Adsorbents for Kinetic and Equilibrium Study of Removal of Safranin O. Spectroscopy Letters, 2012, 45, 500-510.	0.5	46
80	Modified carbon paste electrodes for Cu(II) determination. Materials Science and Engineering C, 2012, 32, 2274-2279.	3.8	17
81	Sensitive Quantification of Silver Nanoparticles by Kinetic-Spectrophotometry Method in Groundwater Samples. Water, Air, and Soil Pollution, 2012, 223, 3393-3398.	1.1	2
82	A Highly Sensitive Adsorptive Stripping Voltammetric Method for Simultaneous Determination of Lead and Vanadium in Foodstuffs. Food Analytical Methods, 2012, 5, 272-278.	1.3	9
83	Effect of holographic principle and generalized uncertainty principle on the semiclassical Parikh-Wilczek tunneling radiation of black holes. Astrophysics and Space Science, 2012, 339, 323-327.	0.5	1
84	Kinetics, thermodynamics and equilibrium evaluation of direct yellow 12 removal by adsorption onto silver nanoparticles loaded activated carbon. Chemical Engineering Journal, 2012, 187, 133-141.	6.6	215
85	Solubility of citric, malonic, and malic acids in different solvents from 303.2 to 333.2K. Fluid Phase Equilibria, 2012, 313, 11-15.	1.4	42
86	Facile "green" synthesis and characterization of CdSe nanoneedles: An alternative to organometallic synthetic routes. Materials Letters, 2012, 68, 153-156.	1.3	11
87	Cadmium hydroxide nanowire loaded on activated carbon as efficient adsorbent for removal of Bromocresol Green. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 62-68.	2.0	85
88	Cadmium telluride nanoparticles loaded on activated carbon as adsorbent for removal of sunset yellow. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 90, 22-27.	2.0	84
89	Diffraction patterns and nonlinear optical properties of gold nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 366-372.	1.1	67
90	Comparison of the efficiency of palladium and silver nanoparticles loaded on activated carbon and zinc oxide nanorods loaded on activated carbon as new adsorbents for removal of Congo red from aqueous solution: Kinetic and isotherm study. Materials Science and Engineering C, 2012, 32, 725-734.	3.8	161

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91	Comparison of silver and palladium nanoparticles loaded on activated carbon for efficient removal of Methylene blue: Kinetic and isotherm study of removal process. <i>Powder Technology</i> , 2012, 228, 18-25.	2.1	206
92	Modification of Gold Nanoparticle Loaded on Activated Carbon with Bis(4-methoxysalicylaldehyde)-1,2-Phenylenediamine as New Sorbent for Enrichment of Some Metal Ions. <i>Biological Trace Element Research</i> , 2012, 145, 109-117.	1.9	47
93	Amberlite IR-120 Modified with 8-Hydroxyquinoline as Efficient Adsorbent for Solid-Phase Extraction and Flame Atomic Absorption Determination of Trace Amounts of Some Metal Ions. <i>Biological Trace Element Research</i> , 2012, 145, 240-247.	1.9	16
94	Synthesis and characterization of Cadmium selenide nanoparticles loaded on activated carbon and its efficient application for removal of Muroxide from aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 46-51.	2.0	42
95	Nonlinear Optical Characterization of CdTe Nano Particles Using Moiré Deflectometry Method. <i>Physics Procedia</i> , 2011, 19, 482-486.	1.2	1
96	Application of Coacervative Microextraction for Extraction of Volatile Compounds in Thymus Essential Oil and Fruit Juices by Gas Chromatography with Flame Ionization Detection. <i>Journal of Essential Oil Research</i> , 2011, 23, 61-69.	1.3	6
97	Determination of methylene blue and sunset yellow in wastewater and food samples using salting-out assisted liquid-liquid extraction. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 533-536.	2.9	87
98	Determination of β -sitosterol and cholesterol in oils after reverse micelles with Triton X-100 coupled with ultrasound-assisted back-extraction by a water/chloroform binary system prior to gas chromatography with flame ionization detection. <i>Analytica Chimica Acta</i> , 2011, 701, 232-237.	2.6	11
99	Solubility of Quercetin in Water + Methanol and Water + Ethanol from (292.8 to 333.8) K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3934-3936.	1.0	64
100	Determination of nicotine, anabasine, and cotinine in urine and saliva samples using single-drop microextraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 2857-2862.	1.2	39
101	Non-linear optical properties of silver nanoparticles prepared by hydrogen reduction method. <i>Optics Communications</i> , 2010, 283, 1650-1653.	1.0	50
102	Determination of hippuric acid in biological fluids using single drop liquid-liquid microextraction. <i>Analytical Methods</i> , 2010, 2, 564.	1.3	14
103	Low-Temperature Growth of Nanocrystalline Mn-Doped ZnS Thin Films Prepared by Chemical Bath Deposition and Optical Properties. <i>Chemistry of Materials</i> , 2009, 21, 2375-2385.	3.2	123
104	Ammonia-free chemical bath deposition of nanocrystalline ZnS thin film buffer layer for solar cells. <i>Thin Solid Films</i> , 2008, 516, 4953-4957.	0.8	204
105	Investigation of the effect of temperature on growth mechanism of nanocrystalline ZnS thin films. <i>Materials Letters</i> , 2008, 62, 4345-4347.	1.3	24
106	Compositional, structural, and optical study of nanocrystalline ZnS thin films prepared by a new chemical bath deposition route. <i>Journal of Alloys and Compounds</i> , 2008, 466, 488-492.	2.8	56