

Amir Abbas rafati

List of Publications by Year in descending order

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87
papers

2,727
citations

159358

30
h-index

205818

48
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87
all docs

87
docs citations

87
times ranked

3261
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and adsorption studies of several heavy metal ions on amino-functionalized silica nano hollow sphere and silica gel. <i>Separation and Purification Technology</i> , 2012, 85, 193-205.	3.9	266
2	Synthesis and characterization of thiol-functionalized silica nano hollow sphere as a novel adsorbent for removal of poisonous heavy metal ions from water: Kinetics, isotherms and error analysis. <i>Chemical Engineering Journal</i> , 2011, 171, 1004-1011.	6.6	180
3	Simultaneous determination of ascorbic acid, dopamine, and uric acid using a carbon paste electrode modified with multiwalled carbon nanotubes, ionic liquid, and palladium nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1999-2008.	2.5	92
4	Modeling of adsorption kinetic and equilibrium isotherms of naproxen onto functionalized nano-clay composite adsorbent. <i>Journal of Molecular Liquids</i> , 2016, 224, 832-841.	2.3	77
5	Chemically modified silica gel with thiol group as an adsorbent for retention of some toxic soft metal ions from water and industrial effluent. <i>Chemical Engineering Journal</i> , 2011, 168, 426-432.	6.6	75
6	Removal of ibuprofen from aqueous solution by functionalized strong nano-clay composite adsorbent: kinetic and equilibrium isotherm studies. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 513-524.	1.8	60
7	Electrochemical studies associated with the micellization of dodecyltrimethyl ammonium bromide (DOTAB) in aqueous solutions of ethanol and 1-propanol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 136, 123-132.	2.3	59
8	Preparation of silica mesoporous nanoparticles functionalized with β -cyclodextrin and its application for methylene blue removal. <i>Journal of Molecular Liquids</i> , 2015, 209, 239-245.	2.3	59
9	Synthesis, characterization and adsorption studies of amino functionalized silica nano hollow sphere as an efficient adsorbent for removal of imidacloprid pesticide. <i>Journal of Molecular Liquids</i> , 2018, 266, 453-459.	2.3	58
10	Investigation of the aggregation number, degree of alcohol attachment and pre-micellar aggregation of sodium dodecyl sulfate in alcohol-water mixtures. <i>Journal of Molecular Liquids</i> , 2004, 111, 109-116.	2.3	57
11	Novel surfactant selective electrochemical sensors based on single walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2011, 159, 226-229.	2.3	55
12	Study of inclusion complex formation between a homologous series of n-alkyltrimethylammonium bromides and β -cyclodextrin, using conductometric technique. <i>Journal of Molecular Liquids</i> , 2005, 116, 37-41.	2.3	53
13	First report on electrocatalytic oxidation of oxytetracycline by horse radish peroxidase: Application in developing a biosensor to oxytetracycline determination. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 692-699.	4.0	53
14	Analytical sensing of hydrogen peroxide on Ag nanoparticles-multiwalled carbon nanotube-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2017-2025.	1.2	51
15	Effect of electrolytes on surface tension and surface adsorption of 1-hexyl-3-methylimidazolium chloride ionic liquid in aqueous solution. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 962-966.	1.0	50
16	Electrosynthesis of Polythiophene Nanowires and Their Application for Sensing of Chlorpromazine. <i>Journal of the Electrochemical Society</i> , 2014, 161, B196-B200.	1.3	49
17	Application of the UNIFAC model for prediction of surface tension and thickness of the surface layer in the binary mixtures. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 252-258.	5.0	43
18	Optimization of modified carbon paste electrode with multiwalled carbon nanotube/ionic liquid/cauliflower-like gold nanostructures for simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Materials Science and Engineering C</i> , 2014, 44, 58-68.	3.8	43

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19	Theoretical study of the inclusion complexes of β - and γ -cyclodextrins with decyltrimethylammonium bromide (DTAB) and tetradecyltrimethylammonium bromide (TTAB). <i>Journal of Molecular Liquids</i> , 2007, 135, 153-157.	2.3	41
20	Study of surface tension and surface properties of binary alcohol/n-alkyl acetate mixtures. <i>Journal of Colloid and Interface Science</i> , 2008, 328, 385-390.	5.0	41
21	Amperometric sensing of anti-HIV drug zidovudine on Ag nanofilm-multiwalled carbon nanotubes modified glassy carbon electrode. <i>Materials Science and Engineering C</i> , 2014, 39, 105-112.	3.8	40
22	Experimental and theoretical study of surface tension of binary mixtures of (n-alkyl acetates+heptane,) Tj ETQq0 0 0 r gBT /Overlock 10 T	1.0	39
23	Ultrasonic/surfactant assisted of CdS nano hollow sphere synthesis and characterization. <i>Materials Characterization</i> , 2011, 62, 94-98.	1.9	37
24	Glassy carbon electrode modified with horse radish peroxidase/organic nucleophilic-functionalized carbon nanotube composite for enhanced electrocatalytic oxidation and efficient voltammetric sensing of levodopa. <i>Materials Science and Engineering C</i> , 2016, 58, 835-845.	3.8	37
25	A novel molecularly imprinted sensor for imidacloprid pesticide based on poly(levodopa) electro-polymerized/TiO ₂ nanoparticles composite. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7621-7633.	1.9	35
26	A voltammetric sensor for diazinon pesticide based on electrode modified with TiO ₂ nanoparticles covered multi walled carbon nanotube nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2017, 807, 1-9.	1.9	34
27	Experimental Data and Correlation of Surface Tensions of the Binary and Ternary Systems of Water + Acetonitrile + 2-Propanol at 298.15 K and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 4039-4043.	1.0	33
28	Fixed bed adsorption column studies and models for removal of ibuprofen from aqueous solution by strong adsorbent Nano-clay composite. <i>Journal of Environmental Health Science & Engineering</i> , 2019, 17, 753-765.	1.4	33
29	Fabrication of a sensitive label free electrochemical immunosensor for detection of prostate specific antigen using functionalized multi-walled carbon nanotubes/polyaniline/AuNPs. <i>Materials Science and Engineering C</i> , 2020, 115, 111066.	3.8	33
30	An electrochemical immunosensor for the prostate specific antigen based on the use of reduced graphene oxide decorated with gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 484.	2.5	32
31	Conductometric studies of interaction between anionic dyes and cetylpyridinium bromide in water-alcohol mixed solvents. <i>Journal of Molecular Liquids</i> , 2008, 137, 80-87.	2.3	30
32	Palladium-silver polyaniline composite as an efficient catalyst for ethanol oxidation. <i>Applied Catalysis A: General</i> , 2018, 554, 24-34.	2.2	30
33	Plasma-photocatalytic degradation of gaseous toluene using SrTiO ₃ /rGO as an efficient heterojunction for by-products abatement and synergistic effects. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 394, 112460.	2.0	30
34	Thermodynamic studies of interaction between cationic surfactants and polyvinyl pyrrolidone using potentiometric techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 145, 47-60.	2.3	29
35	Canonical Monte Carlo simulation of adsorption of O ₂ and N ₂ mixture on single walled carbon nanotube at different temperatures and pressures. <i>Journal of Computational Chemistry</i> , 2010, 31, 1443-1449.	1.5	29
36	The Interactions of a Homologous Series of Cationic Surfactants with Bovine Serum Albumin (BSA) Studied Using Surfactant Membrane Selective Electrodes. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 1111-1116.	2.0	28

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37	Determination of Dopamine in the Presence of Uric Acid and Folic Acid by Carbon Paste Electrode Modified with CuO Nanoparticles/Hemoglobin and Multi-Walled Carbon Nanotube. <i>Journal of the Electrochemical Society</i> , 2015, 162, B69-B74.	1.3	28
38	Development of an electrochemical sensor for the determination of antibiotic sulfamethazine in cow milk using graphene oxide decorated with Cu@Ag core-shell nanoparticles. <i>Analytical Methods</i> , 2021, 13, 910-917.	1.3	28
39	Electrochemical and Thermodynamic Studies of Inclusion Complex Formation between Tetradecyltrimethylammonium Bromide (TTAB) and β -Cyclodextrin (β -CD). <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 485-490.	2.0	27
40	Enzymatic biosensor based on entrapment of d-amino acid oxidase on gold nanofilm/MWCNTs nanocomposite modified glassy carbon electrode by sol-gel network: Analytical applications for d-alanine in human serum. <i>Enzyme and Microbial Technology</i> , 2017, 100, 20-27.	1.6	27
41	Electrochemical and Kinetic Studies of Micellization of Sodium Tetradecyl Sulfate in the Presence of Poly(vinylpyrrolidone). <i>Langmuir</i> , 1998, 14, 2191-2196.	1.6	26
42	Electronic Properties of Adsorption Nitrogen Monoxide on Inside and Outside of the Armchair Single Wall Carbon Nanotubes: A Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3597-3604.	1.5	26
43	Surface Tension and Surface Properties of Binary Mixtures of 1,4-Dioxane or <i>N,N</i> -Dimethyl Formamide with <i>n</i> -Alkyl Acetates. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 3224-3228.	1.0	26
44	Electrosynthesis of high-density polythiophene nanotube arrays and their application for sensing of riboflavin. <i>Journal of Molecular Liquids</i> , 2014, 199, 150-155.	2.3	26
45	Electrochemical molecularly bioimprinted siloxane biosensor on the basis of core/shell silver nanoparticles/EGFR exon 21 L858R point mutant gene/siloxane film for ultra-sensing of Gemcitabine as a lung cancer chemotherapy medication. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111611.	5.3	26
46	Surface tension of non-ideal binary and ternary liquid mixtures at various temperatures and $p=81.5$ kPa. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 248-254.	1.0	25
47	Polythiophene supported MnO ₂ nanoparticles as nano-stabilizer for simultaneously electrostatically immobilization of d-amino acid oxidase and hemoglobin as efficient bio-nanocomposite in fabrication of dopamine bi-enzyme biosensor. <i>Materials Science and Engineering C</i> , 2017, 76, 637-645.	3.8	25
48	Prediction of the Surface Tension, Surface Concentration and the Relative Gibbs Adsorption Isotherm of Non-ideal Binary Liquid Mixtures. <i>Journal of Solution Chemistry</i> , 2013, 42, 2071-2086.	0.6	24
49	Influence of Short-Chain Alcohols on the Micellization Parameters of Sodium Dodecyl Sulfate (SDS). <i>Journal of the Chinese Chemical Society</i> , 1999, 46, 983-991.	0.8	23
50	Electropolymerization of Ni-LD metallopolymers on gold nanoparticles enriched multi-walled carbon nanotubes as nano-structure electrocatalyst for efficient voltammetric sertraline detection in human serum. <i>Electrochimica Acta</i> , 2016, 203, 281-291.	2.6	23
51	Electrodeposition of Pt Nanoparticles on New Porous Graphitic Carbon Nanostructures Prepared from Biomass for Fuel Cell and Methanol Sensing Applications. <i>Electrocatalysis</i> , 2015, 6, 220-228.	1.5	22
52	Surface Properties of Binary Mixtures of Ethylene Glycol with a Series of Aliphatic Alcohols (1-Pentanol, 1-Hexanol, and 1-Heptanol). <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1944-1949.	1.0	21
53	First report on hemoglobin electrostatic immobilization on WO ₃ nanoparticles: application in the simultaneous determination of levodopa, uric acid, and folic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3899-3909.	1.9	21
54	Effect of the adsorption of oxygen on electronic structures and geometrical parameters of armchair single-wall carbon nanotubes: A density functional study. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 1-12.	5.0	19

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55	CONFORMATIONAL STABILITY OF BOVINE SERUM ALBUMIN BY CATIONIC SURFACTANT TREATMENTS. <i>Physics and Chemistry of Liquids</i> , 2003, 41, 509-517.	0.4	18
56	Micellization of Cetylpyridinium Chloride Using Conductometric Technique. <i>Physics and Chemistry of Liquids</i> , 2001, 39, 521-532.	0.4	16
57	Nanostructured Flower like Pt-Ru for Ethanol Oxidation and Determination. <i>Journal of the Electrochemical Society</i> , 2015, 162, B41-B46.	1.3	16
58	A sensitive voltammetric sensor based on carbon nanotube/nickel nanoparticle for determination of daclatasvir (an anti-hepatitis C drug) in real samples. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 1199-1208.	1.5	16
59	Aggregation Number of Ionic Surfactants and its Application for Alkyltrimethyl Ammonium Bromides and Sodium Tetradecyl Sulfate by Potentiometric Technique. <i>Physics and Chemistry of Liquids</i> , 2003, 41, 227-238.	0.4	15
60	Predicting helium and neon adsorption and separation on carbon nanotubes by Monte Carlo simulation. <i>Journal of Molecular Modeling</i> , 2011, 17, 785-794.	0.8	15
61	Synthesis and characterization of supported silica nano hollow spheres with CdS quantum dots. <i>Journal of Molecular Liquids</i> , 2012, 174, 124-128.	2.3	14
62	Kinetic study, structural analysis and computational investigation of novel xerogel based on drug-PEG/SiO ₂ for controlled release of enrofloxacin. <i>Journal of Molecular Liquids</i> , 2018, 266, 733-742.	2.3	14
63	New Approach for Determination of Macroscopic Binding Constants of Ligands to Macromolecules. <i>Journal of Colloid and Interface Science</i> , 1999, 219, 217-224.	5.0	13
64	Thermodynamic studies of inclusion complex between cetyltrimethylammonium bromide (CTAB) and β -cyclodextrin (β -CD) in water/n-butanol mixture, using potentiometric technique. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 587-598.	0.4	13
65	Thermodynamic and binding study of hemoglobin, oxy-hemoglobin and carbamino-hemoglobin upon interaction with cationic surfactants, using surfactant membrane selective electrodes. <i>Journal of Molecular Liquids</i> , 2009, 144, 131-137.	2.3	12
66	Mixed micellization of tetradecyltrimethylammonium bromide and Triton X-100 in water-ethanol mixtures, using potentiometric and surface tension techniques. <i>Journal of Molecular Liquids</i> , 2007, 135, 128-134.	2.3	11
67	Simple and Fast Determination of Piroxicam in Pharmaceutical and Real Samples Using Glassy Carbon Electrode Modified with Copper Nano-particles. <i>Journal of the Electrochemical Society</i> , 2020, 167, 067521.	1.3	11
68	Effect of the pH and electrodeposition frequency on magnetic properties of binary Co _{1-x} Sn _x nanowire arrays. <i>Journal of Materials Research</i> , 2014, 29, 190-196.	1.2	9
69	Electrostatically Immobilized Hemoglobin on Silica-Coated Magnetic Nanoparticles for Simultaneous Determination of Dopamine, Uric Acid, and Folic Acid. <i>Journal of the Electrochemical Society</i> , 2016, 163, B609-B616.	1.3	9
70	Enhanced photocatalytic activity of hydrothermally synthesised SrTiO ₃ /rGO for gaseous toluene degradation in the air: modelling and process optimisation using response surface methodology. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 222-242.	1.8	9
71	Study of inclusion complex formation between chlorpromazine hydrochloride, as an antiemetic drug, and β -cyclodextrin, using conductometric technique. <i>Materials Science and Engineering C</i> , 2009, 29, 791-795.	3.8	8
72	Thermodynamic investigation of inclusion complex formation between cetyltrimethyl ammonium bromide (CTAB) and β -cyclodextrin at various temperatures. <i>Journal of Molecular Liquids</i> , 2014, 195, 145-149.	2.3	8

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73	Kinetic and theoretical studies of novel biodegradable thermo-sensitive xerogels based on PEG/PVP/silica for sustained release of enrofloxacin. <i>Applied Surface Science</i> , 2017, 425, 282-290.	3.1	8
74	Nanocomposite adsorbent based on β -cyclodextrin-PVP-clay for the removal of naproxen from aqueous solution: fixed-bed column and modeling studies. , 0, 132, 63-74.		8
75	Fabrication of self-ordered nanoporous alumina with 500–750 nm inter-pore distances using hard anodization in phosphoric/oxalic acid mixtures. <i>Journal of Porous Materials</i> , 2016, 23, 357-363.	1.3	7
76	First Report for Levodopa Electrocatalytic Oxidation Based on Copper Metal-Organic Framework (MOF): Application in a Voltammetric Sensor Development for Levodopa in Real Samples. <i>ChemistrySelect</i> , 2020, 5, 8532-8539.	0.7	7
77	Study of interaction between <i>Aspergillus niger</i> cellulase (ANC) and Cetyltrimethylammonium Bromide (CTAB) using surfactant membrane selective electrode. <i>Journal of Molecular Liquids</i> , 2007, 136, 44-49.	2.3	6
78	Development of a Novel Biosensor for Nanomolar Detection of Methylparaben. <i>Procedia Engineering</i> , 2015, 120, 552-555.	1.2	5
79	Effect of in-ovo feeding of iron nanoparticles and methionine hydroxy analogue on broilers chickens small intestinal characteristics. <i>Acta Scientiarum - Animal Sciences</i> , 0, 42, e46903.	0.3	5
80	Highly Efficient Degradation of Linear Alkylbenzene Sulfonate Surfactant by MIL-53 (Fe) Metal Organic Framework Derived Electro-Fenton Applicable in Water Treatments. <i>ChemistrySelect</i> , 2021, 6, 8889-8898.	0.7	5
81	Effect of the Electrodeposition Frequency, Wave Form, and Thermal Annealing on Magnetic Properties of [Co _{0.975} Cr _{0.025}] _{0.99} Cu _{0.01} Nanowire Arrays. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2821-2827.	0.8	4
82	Development of Novel Biodegradable Enrofloxacin-Silica Composite for In Vitro Drug Release Kinetic Studies. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3404-3411.	2.4	4
83	Synergic and Antifouling Effect of ZnO on Ethanol Oxidation by Silver-Palladium Bimetallic Electrocatalyst. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2556-A2562.	1.3	3
84	Quantum chemical study of the host-guest inclusion complexes of the local anaesthetic drugs, procaine hydrochloride and butacaine hydrochloride, with β - and γ -cyclodextrins. <i>Monatshefte für Chemie</i> , 2008, 139, 763-771.	0.9	2
85	Oxidation of L-Phenylalanine by Manganese(VII) in Concentrated Sulfuric Acid Medium. <i>Physics and Chemistry of Liquids</i> , 2003, 41, 25-31.	0.4	1
86	Electrocatalytic Behavior of TiO ₂ /MWCNTs Nanocomposite Decorated on Glassy Carbon Electrode for Individual and Simultaneous Voltammetric Determination of Adenine and Guanine in Real Samples. <i>Journal of the Electrochemical Society</i> , 2022, 169, 047516.	1.3	1
87	Thermodynamic Studies of Interaction Between Cationic Surfactants and Lysozyme Using Potentiometric Techniques. <i>Physics and Chemistry of Liquids</i> , 2001, 39, 533-541.	0.4	0