Alireza Khoshroo

List of Publications by Year
in descending order

60 papers	2,338 citations	172457 29 h-index	214800 47 g-index
60 all docs	60 docs citations	60 times ranked	2696 citing authors

#	Article	IF	Citations
1	Screen-printed electrodes for biosensing: a review (2008â€“2013). Mikrochimica Acta, 2014, 181, 865-891.	5.0	387
2	An electrochemical immunosensor based on poly p-phenylenediamine and graphene nanocomposite for detection of neuron-specific enolase via electrochemically amplified detection. Analytical Biochemistry, 2018, 548, 53-59.	2.4	105
3	One-step Synthesized Silver Nanoparticles Using Isoimperatorin: Evaluation of Photocatalytic, and Electrochemical Activities. Scientific Reports, 2020, 10, 1762.	3.3	85
4	Electrocatalytic oxidation and voltammetric determination of levodopa in the presence of carbidopa at the surface of a nanostructure based electrochemical sensor. Biosensors and Bioelectronics, 2012, 35, 75-81.	10.1	82
5	Electrochemical immunosensor for the breast cancer marker CA 15â€“3 based on the catalytic activity of a CuS/reduced graphene oxide nanocomposite towards the electrooxidation of catechol. Mikrochimica Acta, 2018, 185, 79.	5.0	79
6	Electrochemical determination of diazepam in real samples based on fullerene-functionalized carbon nanotubes/ionic liquid nanocomposite. Sensors and Actuators B: Chemical, 2017, 240, 125-131.	7.8	74
7	An electrochemical sensor based on poly (l-Cysteine)@AuNPs @ reduced graphene oxide nanocomposite for determination of levofloxacin. Microchemical Journal, 2019, 147, 198-206.	4.5	73
8	Label-free electrochemical immunosensor for detection of tumor necrosis factor Î± based on fullerene-functionalized carbon nanotubes/ionic liquid. Journal of Electroanalytical Chemistry, 2015, 757, 58-64.	3.8	71
9	An electrochemical study of benzofuran derivative in modified electrode-based CNT/ionic liquids for determining nanomolar concentrations of hydrazine. Electrochimica Acta, 2013, 103, 77-84.	5.2	68
10	Enhanced performance of label-free electrochemical immunosensor for carbohydrate antigen 15-3 based on catalytic activity of cobalt sulfide/graphene nanocomposite. Sensors and Actuators B: Chemical, 2018, 255, 580-587.	7.8	65
11	Sensitivity analysis of energy inputs in crop production using artificial neural networks. Journal of Cleaner Production, 2018, 197, 992-998.	9.3	61
12	A non-parametric Data Envelopment Analysis approach for improving energy efficiency of grape production. Energy, 2013, 63, 189-194.	8.8	58
13	High sensitive sensor based on functionalized carbon nanotube/ionic liquid nanocomposite for simultaneous determination of norepinephrine and serotonin. Journal of Electroanalytical Chemistry, 2014, 717-718, 17-23.	3.8	58
14	Development of electrochemical sensor for sensitive determination of oxazepam based on silver-platinum coreâ€“shell nanoparticles supported on graphene. Journal of Electroanalytical Chemistry, 2018, 823, 61-66.	3.8	57
15	High performance electrochemical sensor based on fullerene-functionalized carbon nanotubes/ionic liquid: Determination of some catecholamines. Electrochemistry Communications, 2014, 42, 9-12.	4.7	53
16	Silver nanofibers/ionic liquid nanocomposite based electrochemical sensor for detection of clonazepam via electrochemically amplified detection. Microchemical Journal, 2019, 145, 1185-1190.	4.5	53
17	Nano composite system based on coumarin derivativeâ€“titanium dioxide nanoparticles and ionic liquid: Determination of levodopa and carbidopa in human serum and pharmaceutical formulations. Analytica Chimica Acta, 2013, 798, 25-32.	5.4	52
18	Simultaneous determination of hydrazine and hydroxylamine based on fullerene-functionalized carbon nanotubes/ionic liquid nanocomposite. Sensors and Actuators B: Chemical, 2015, 214, 132-137.	7.8	52

#	Article	IF	Citations
19	Improving energy efficiency considering reduction of CO2 emission of turnip production: A novel data envelopment analysis model with undesirable output approach. Journal of Cleaner Production, 2018, 187, 605-615.	9.3	42
20	Eco-efficiency measurement and material balance principle: an application in power plants Malmquist Luenberger Index. Annals of Operations Research, 2017, 255, 221-239.	4.1	41
21	A new composite consisting of electrosynthesized conducting polymers, graphene sheets and biosynthesized gold nanoparticles for biosensing acute lymphoblastic leukemia. Bioelectrochemistry, 2018, 121, 38-45.	4.6	39
22	Nickel nitride nanoparticles as efficient electrocatalyst for effective electro-oxidation of ethanol and methanol in alkaline media. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 201-205.	3.5	37
23	A nanocomposite consisting of reduced graphene oxide and electropolymerized Î²-cyclodextrin for voltammetric sensing of levofloxacin. Mikrochimica Acta, 2019, 186, 438.	5.0	37
24	Electrocatalytic properties of functionalized carbon nanotubes with titanium dioxide and benzofuran derivative/ionic liquid for simultaneous determination of isoproterenol and serotonin. Electrochimica Acta, 2014, 130, 634-641.	5.2	36
25	Electrochemical determination of the antipsychotic medication clozapine by a carbon paste electrode modified with a nanostructure prepared from titania nanoparticles and copper oxide. Mikrochimica Acta, 2019, 186, 698.	5.0	36
26	Ultrasensitive Electrochemical Immunosensor for Detection of Tumor Necrosis Factorâ€Î± Based on Functionalized MWCNTâ€Gold Nanoparticle/Ionic Liquid Nanocomposite. Electroanalysis, 2015, 27, 2518-2526.	2.9	33
27	Electrochemical system designed on a copper tape platform as a nonenzymatic glucose sensor. Sensors and Actuators B: Chemical, 2020, 325, 128778.	7.8	33
28	Application of graphene to modified ionic liquid graphite composite and its enhanced electrochemical catalysis properties for levodopa oxidation. Sensors and Actuators B: Chemical, 2014, 204, 282-288.	7.8	31
29	Earlier diagnoses of acute leukemia by a sandwich type of electrochemical aptasensor based on copper sulfide-graphene composite. Analytica Chimica Acta, 2021, 1146, 1-10.	5.4	31
30	Oxidized multiwalled carbon nanotubes for improving the electrocatalytic activity of a Schiff base modified electrode in determination of isoprenaline. Journal of Electroanalytical Chemistry, 2013, 705, 75-80.	3.8	28
31	Simultaneous Determination of Isoproterenol, Acetaminophen and Folic Acid Using a Novel Nanostructureâ€Based Electrochemical Sensor. Electroanalysis, 2014, 26, 275-284.	2.9	28
32	Enhanced activity for non-enzymatic glucose oxidation on nickel nanostructure supported on PEDOT:PSS. Journal of Electroanalytical Chemistry, 2016, 775, 116-120.	3.8	27
33	Nano composite system based on fullerene-functionalized carbon nanotubes for simultaneous determination of levodopa and acetaminophen. Measurement: Journal of the International Measurement Confederation, 2016, 91, 162-167.	5.0	27
34	Carbon nanotube electrochemical sensor based on and benzofuran derivative as a mediator for the determination of levodopa, acetaminophen, and tryptophan. Ionics, 2015, 21, 1741-1749.	2.4	25
35	Determination of homocysteine using a dopamine-functionalized graphene composite. Microchemical Journal, 2021, 165, 106124.	4.5	24
36	Enhanced performance of dye-sensitized solar cells with dual-function coadsorbent: reducing the surface concentration of dyeâ€“iodine complexes concomitant with attenuated charge recombination. Physical Chemistry Chemical Physics, 2015, 17, 22985-22990.	2.8	23

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37	Electrocatalysis of dopamine in the presence of uric acid and folic acid on modified carbon nanotube paste electrode. Chinese Journal of Catalysis, 2014, 35, 201-209.	14.0	20
38	Green synthesis and structural characterization of gold nanoparticles from Achillea wilhelmsii leaf infusion and in vitro evaluation. Bulletin of Materials Science, 2020, 43, 1.	1.7	19
39	Electrochemical Study of Catechol Derivatives in the Presence of Î²-diketones: Synthesis of Benzofuran Derivatives. Journal of the Electrochemical Society, 2012, 159, H912-H917.	2.9	17
40	Energy management in crop production using a novel fuzzy data envelopment analysis model. RAIRO - Operations Research, 2018, 52, 595-617.	1.8	17
41	Electrochemical and catalytic investigations of epinephrine, acetaminophen and folic acid at the surface of titanium dioxide nanoparticle-modified carbon paste electrode. Ionics, 2014, 20, 1757-1765.	2.4	15
42	Simultaneous determination of the concentrations of isoproterenol, uric acid, and folic acid in solution using a novel nanostructure- based electrochemical sensor. Chinese Journal of Catalysis, 2014, 35, 565-572.	14.0	14
43	Electrochemical determination of captopril in the presence of acetaminophen, tryptophan, folic acid, and l-cysteine at the surface of modified carbon nanotube paste electrode. Ionics, 2015, 21, 239-250.	2.4	14
44	Energy efficiency and congestion considering data envelopment analysis and bounded adjusted measure: A case of tomato production. Journal of Cleaner Production, 2021, 328, 129639.	9.3	14
45	Development of paper-based aptasensor for circulating tumor cells detection in the breast cancer. Journal of Electroanalytical Chemistry, 2022, 910, 116182.	3.8	14
46	A Simple Method for Developing a Handâ€Drawn Paperâ€Based Sensor for Mercury; Using Green Synthesized Silver Nanoparticles and Smartphone as a Handâ€Heldâ€Device for Colorimetric Assay. Global Challenges, 2021, 5, 2000099.	3.6	12
47	High-performance electrochemical sensor based on electrodeposited iron oxide nanoparticle: catecholamine as analytical probe. Journal of the Iranian Chemical Society, 2017, 14, 1659-1664.	2.2	8
48	Self-assembled monolayers of organosulfur derivative on gold nanoparticles as electrochemical sensor for determination of isoprenaline. Journal of the Iranian Chemical Society, 2018, 15, 1061-1068.	2.2	7
49	Electrochemical analysis of anionic analytes in weakly supported media using electron transfer promotion effect: a case study on nitrite. Scientific Reports, 2020, 10, 14511.	3.3	7
50	Total factor energy productivity considering undesirable pollutant outputs: A new double frontier based malmquist productivity index. Energy, 2022, 258, 124819.	8.8	7
51	Electrocatalytic Properties of Vanadyl Complex in Graphite Nanocomposite and its Enhanced Electrochemical Catalysis Properties for Levodopa Oxidation. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 1576-1581.	3.7	6
52	Surface passivation of titanium dioxide via an electropolymerization method to improve the performance of dye-sensitized solar cells. RSC Advances, 2016, 6, 12537-12543.	3.6	6
53	Different Electrocatalytic Response Related to the Morphological Structure of TiO₂ Nanomaterial: Hydroquinone as an Analytical Probe. Electroanalysis, 2017, 29, 231-237.	2.9	6
54	Graphene sheet for improving the electrocatalytic activity of a benzofuran derivative modified electrode for determination of epinephrine in the presence of serotonin. Journal of Analytical Chemistry, 2017, 72, 689-698.	0.9	5

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55	Thiosemicarbazide derivative-functionalized carbon nanotube for simultaneous determination of isoprenaline and piroxicam. Journal of Analytical Science and Technology, 2017, 8, .	2.1	5
56	Investigating the Effective Component of Classroom Management in Predicting Academic Achievement among English Language Students. Procedia, Social and Behavioral Sciences, 2015, 205, 591-596.	0.5	4
57	Improving Energy Efficiency Using Data Envelopment Analysis: A Case of Walnut Production. Profiles in Operations Research, 2014, , 227-240.	0.4	4
58	Simultaneous Determination of Ascorbic Acid, Uric Acid and Tryptophan by Novel Carbon Nanotube Paste Electrode. Iranian Journal of Pharmaceutical Research, 2018, 17, 851-863.	0.5	3
59	Influence of Nitrogen Doping on the Electrocatalytic Effect of TiO2Nanofibers. Journal of the Electrochemical Society, 2017, 164, H903-H907.	2.9	2
60	Simultaneous Determination of Isoproterenol, Acetaminophen and Folic Acid Using Nanostructured Electrochemical Sensor Based on Benzofuran Derivative and Carbon Nanotubes. Journal of the Brazilian Chemical Society, 2014, , .	0.6	1