Mehdi Shabani-nooshabadi

List of Publications by Year
in descending order

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66 papers	3,396 citations	126901 33 h-index	144002 57 g-index
66 all docs	66 docs citations	66 times ranked	2707 citing authors

#	Article	IF	Citations
1	A critical review on the use of potentiometric based biosensors for biomarkers detection. Biosensors and Bioelectronics, 2021, 184, 113252.	10.1	343
2	3D reduced graphene oxide/FeNi3-ionic liquid nanocomposite modified sensor; an electrical synergic effect for development of tert-butylhydroquinone and folic acid sensor. Composites Part B: Engineering, 2019, 172, 666-670.	12.0	305
3	Analysis of glutathione in the presence of acetaminophen and tyrosine via an amplified electrode with MgO/SWCNTs as a sensor in the hemolyzed erythrocyte. Talanta, 2018, 176, 208-213.	5.5	238
4	Determination of D&C Red 33 and Patent Blue V Azo dyes using an impressive electrochemical sensor based on carbon paste electrode modified with ZIF-8/g-C3N4/Co and ionic liquid in mouthwash and toothpaste as real samples. Food and Chemical Toxicology, 2022, 162, 112907.	3.6	231
5	Novel enzymatic graphene oxide based biosensor for the detection of glutathione in biological body fluids. Chemosphere, 2022, 287, 132187.	8.2	160
6	Santolina chamaecyparissus extract as a natural source inhibitor for 304 stainless steel corrosion in 3.5% NaCl. Journal of Industrial and Engineering Chemistry, 2015, 31, 231-237.	5.8	120
7	Synthesis of Niâ€“Co-Fe layered double hydroxide and Fe2O3/Graphene nanocomposites as actively materials for high electrochemical performance supercapacitors. Electrochimica Acta, 2019, 317, 83-92.	5.2	104
8	Fabrication of a new electrocatalytic sensor for determination of diclofenac, morphine and mefenamic acid using synergic effect of NiO-SWCNT and 2, 4-dimethyl-N/-[1- (2, 3-dihydroxy phenyl) methylidene] aniline. Sensors and Actuators B: Chemical, 2018, 273, 228-233.	7.8	100
9	Electrochemical reduced graphene oxide-polyaniline as effective nanocomposite film for high-performance supercapacitor applications. Electrochimica Acta, 2017, 245, 575-586.	5.2	94
10	NiFe2O4-rGO/ionic liquid modified carbon paste electrode: An amplified electrochemical sensitive sensor for determination of Sunset Yellow in the presence of Tartrazine and Allura Red. Food Chemistry, 2021, 339, 127841.	8.2	88
11	Electrochemical performance of aluminium alloy in strong alkaline media by urea and thiourea as inhibitor for aluminium-air batteries. Journal of Molecular Liquids, 2017, 242, 971-978.	4.9	78
12	Direct electrosynthesis of polyanilineâ€“montmorrilonite nanocomposite coatings on aluminum alloy 3004 and their corrosion protection performance. Corrosion Science, 2011, 53, 3035-3042.	6.6	72
13	Novel bi-functional electrocatalysts based on the electrochemical synthesized bimetallicmetal organic frameworks: Towards high energy advanced reversible zincâ€“air batteries. Journal of Power Sources, 2020, 451, 227768.	7.8	68
14	Electrochemical deposition and characterization of polyaniline-graphene nanocomposite films and its corrosion protection properties. Journal of Polymer Research, 2016, 23, 1.	2.4	64
15	Electrochemical hydrogen storage properties of NiAl2O4/NiO nanostructures using TiO2, SiO2 and graphene by auto-combustion method using green tea extract. Renewable Energy, 2018, 115, 199-207.	8.9	63
16	Synthesis, characterization and investigation of the electrochemical hydrogen storage properties of CuOâ€“CeO2 nanocomposites synthesized by green method. International Journal of Hydrogen Energy, 2017, 42, 14608-14620.	7.1	61
17	Modification of carbon paste electrode with NiO/graphene oxide nanocomposite and ionic liquids for fabrication of high sensitive voltammetric sensor on sulfamethoxazole analysis. Journal of Molecular Liquids, 2016, 220, 329-333.	4.9	59
18	Enhanced Supercapacitor Performance Using a Co₃O₄@Co₃S₄ Nanocomposite on Reduced Graphene Oxide/Ni Foam Electrodes. Chemistry - an Asian Journal, 2021, 16, 1258-1270.	3.3	56

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19	Electrodeposition of polyaniline-montmorrilonite nanocomposite coatings on 316L stainless steel for corrosion prevention. Journal of Polymer Research, 2014, 21, 1.	2.4	54
20	Fabrication of an Electroanalytical Sensor for Determination of Deoxyepinephrine in the Presence of Uric Acid Using CuFe₂O_{4Â}Nanoparticle/Ionic Liquid Amplified Sensor. Journal of the Electrochemical Society, 2019, 166, H218-H223.	2.9	50
21	High lithium anodic performance of reduced Sn particles on Co metal-organic frameworks for lithium-ion batteries with a long-cycle life. Composites Part B: Engineering, 2020, 193, 108008.	12.0	50
22	Facile synthesis of crumpled-paper like CoWO4-CoMn2O4/N-doped Graphene hybrid nanocomposites for high performance all-solid-state asymmetric supercapacitors. Journal of Energy Storage, 2022, 45, 103513.	8.1	48
23	Electrocatalytic Determination of Hydroxylamine in the Presence of Thiosulfate in Water and Wastewater Samples Using a Nanostructure Modified Carbon Paste Electrode. Electroanalysis, 2015, 27, 1733-1741.	2.9	43
24	Voltammetric analysis of mycophenolate mofetil in pharmaceutical samples via electrochemical nanostructure based sensor modified with ionic liquid and MgO/SWCNTs. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 989-996.	5.3	43
25	The potential of electrochemistry for one-pot and sensitive analysis of patent blue V, tartrazine, acid violet 7 and ponceau 4R in foodstuffs using IL/Cu-BTC MOF modified sensor. Food Chemistry, 2022, 368, 130811.	8.2	43
26	Gold nanoparticles and reduced graphene oxide-amplified label-free DNA biosensor for dasatinib detection. New Journal of Chemistry, 2018, 42, 16378-16383.	2.8	42
27	An electrochemical strategy to determine thiosulfate, 4-chlorophenol and nitrite as three important pollutants in water samples via a nanostructure modified sensor. Journal of Colloid and Interface Science, 2017, 507, 11-17.	9.4	41
28	Electrosynthesis of a polyaniline/zeolite nanocomposite coating on copper in a three-step process and the effect of current density on its corrosion protection performance. RSC Advances, 2015, 5, 96601-96610.	3.6	40
29	Electropolymerized coatings of poly(o-anisidine) and poly(o-anisidine)-TiO₂ nanocomposite on aluminum alloy 3004 by using the galvanostatic method and their corrosion protection performance. Polymers for Advanced Technologies, 2014, 25, 279-287.	3.2	38
30	Electropolymerized coatings of polyaniline on copper by using the galvanostatic method and their corrosion protection performance in HCl medium. Surface and Interface Analysis, 2014, 46, 472-479.	1.8	36
31	Rapid and fast strategy for the determination of glutathione in the presence of vitamin B6in biological and pharmaceutical samples using a nanostructure based electrochemical sensor. RSC Advances, 2015, 5, 56255-56261.	3.6	36
32	Incorporation of graphene oxideâ€“NiO nanocomposite and n-hexyl-3-methylimidazolium hexafluoro phosphate into carbon paste electrode: application as an electrochemical sensor for simultaneous determination of benserazide, levodopa and tryptophan. Journal of the Iranian Chemical Society, 2017, 14, 955-961.	2.2	34
33	Square wave voltammetric determination of hydrazine and 4-chlorophenol as two important water pollutants using nanostructure-amplified sensor. Research on Chemical Intermediates, 2018, 44, 5389-5401.	2.7	34
34	Inhibition of acid corrosion of glass ampoule in Pb/HBF4/PbO2 reserve batteries using nanobis[3-(trimethoxysilyl)propyl]amine. Journal of Molecular Liquids, 2020, 302, 112578.	4.9	33
35	Simultaneous determination of citalopram and selegiline using an efficient electrochemical sensor based on ZIF-8 decorated with RGO and g-C3N4 in real samples. Analytica Chimica Acta, 2022, 1203, 339662.	5.4	31
36	Investigation of Mn2O3 as impurity on the electrochemical hydrogen storage performance of MnO2CeO2 nanocomposites. International Journal of Hydrogen Energy, 2017, 42, 28473-28484.	7.1	29

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37	An Electrochemical Sensor for Analysis of Food Red 17 in the Presence of Tartrazine in Food Products Amplified with CdO/rGO Nanocomposite and 1,3-Dipropylimidazolium Bromide. Food Analytical Methods, 2018, 11, 646-653.	2.6	29
38	A new strategy to design label-free electrochemical biosensor for ultrasensitive diagnosis of CYFRA 21â€“1 as a biomarker for detection of non-small cell lung cancer. Chemosphere, 2022, 301, 134636.	8.2	28
39	Green Approach to Corrosion Inhibition of Copper by the Extract of Calligonum comosum in Strong Acidic Medium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 293-299.	2.2	22
40	Voltammetric Determination of Thiosulfate in Presence of p-Nitrophenol Using an Electrochemical Nanostructure Sensor Modified with a New Mediator. Journal of the Electrochemical Society, 2017, 164, H975-H980.	2.9	22
41	Interaction of anionic azo dye and TTAB: cationic surfactant. Journal of the Brazilian Chemical Society, 2009, 20, 460-465.	0.6	20
42	A novel platform based on CoMn2O4-rGO/1-ethyl-3-methylimidazolium chloride modified carbon paste electrode for voltammetric detection of pethidine in the presence morphine and olanzapine. Chemosphere, 2022, 301, 134710.	8.2	20
43	Study of N-benzylidene derivatives synthesized as corrosion inhibitors for copper in HCl solution. RSC Advances, 2015, 5, 23357-23366.	3.6	19
44	Introducing the Santolina chamaecyparissus Extract as a Suitable Green Inhibitor for 304 Stainless Steel Corrosion in Strong Acidic Medium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5139-5148.	2.2	18
45	Root and shoot extracts of Ajuga chamaecistus subsp. scoparia as natural inhibitors for 304 stainless steel corrosion in strong acidic medium. Surface Engineering and Applied Electrochemistry, 2017, 53, 560-569.	0.8	15
46	Cu-BTC Metal-Organic Frameworks as Catalytic Modifier for Ultrasensitive Electrochemical Determination of Methocarbamol in the Presence of Methadone. Journal of the Electrochemical Society, 2021, 168, 097507.	2.9	15
47	Use of a nano-porous gold film electrode modified with chitosan / polypyrrole for electrochemical determination of metronidazole in the Presence of Acetaminophen. Chemosphere, 2022, 307, 135722.	8.2	15
48	Study of hydrogen storage performance of ZnOâ€“CeO2 ceramic nanocomposite and the effect of various parameters to reach the optimum product. International Journal of Hydrogen Energy, 2018, 43, 22955-22965.	7.1	14
49	Sol-gel synthesis, characterization and electrochemical corrosion behavior of S-N-C-doped TiO2 nano coating on copper. Journal of Molecular Liquids, 2018, 266, 99-105.	4.9	14
50	A Potential Strategy for Simultaneous Determination of Deferoxamine and Vitamin C Using MCR-ALS with Nanostructured Electrochemical Sensor in Serum and Urine of Thalassemia and Diabetic Patients. Journal of the Electrochemical Society, 2021, 168, 046514.	2.9	13
51	Fabrication of a sensitive sensor for electrochemical detection of diltiazem in presence of methyldopa. Chemosphere, 2022, 297, 134170.	8.2	12
52	Determination of Acid Green 25 in the presence of Brilliant Blue in hair dye and wastewater using voltammetric sensor amplified with reduced graphene oxide/CoFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e918" altimg="si7.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e926" altimg="si8.svg"><mml	6.1	10
53	A Practical One-Pot Electrochemical Synthesis of Pyrimido[4,5-b]indole Derivatives. Bulletin of the Chemical Society of Japan, 2017, 90, 68-73.	3.2	9
54	Electrosynthesis of Poly(ortho-phenetidine) Coatings on Steel and Investigation of Their Corrosion Protection Properties. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 104-112.	1.1	8

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55	Characterization of hydrogen storage behavior of the as-synthesized p-type NiO/n-type CeO2 nanocomposites by carbohydrates as a capping agent: The influence of morphology. International Journal of Hydrogen Energy, 2018, 43, 14557-14568.	7.1	8
56	Development of an amplified nanostructured electrochemical sensor for the detection of cefixime in pharmaceuticals and biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2022, 212, 114657.	2.8	8
57	Introduction of AlV₃O₉/CNT Nanocomposite for Modification of the Electrochemical Sensor in Order the Determination of Amlodipine and Hydrochlorothiazide in Biological and Pharmaceutical Samples. Industrial & Engineering Chemistry Research, 2023, 62, 4481-4493.	3.7	8
58	The study of synergistic effects of ZnO decorated graphene nanosheets and room temperature ionic liquid for analysis of raloxifene in pharmaceutical samples. Research on Chemical Intermediates, 2018, 44, 5181-5191.	2.7	7
59	High sensitive titanium/chitosan-coated nanoporous gold film electrode for electrochemical determination of acetaminophen in the presence of piroxicam. Progress in Organic Coatings, 2021, 151, 106100.	3.9	7
60	Introducing of Li2FeMn3O8 /Câ€“C3N4 /IL nanocomposite for electrochemical determination of pantoprazole sodium in real samples. Chemosphere, 2022, 287, 132311.	8.2	7
61	Graphene oxide/NiO nanoparticle composite-ionic liquid modified carbon paste electrode for selective sensing of 4-chlorophenol in the presence of nitrite. Journal of Molecular Liquids, 2020, , 114687.	4.9	5
62	An Electrochemical Platform for Determination of Isoprenaline in the Presence of Acetaminophen Based on a Nanoporous Gold Film Electrode Modified With Polyaniline. IEEE Sensors Journal, 2020, 20, 9502-9509.	4.7	5
63	Poly(2-chloroaniline) Electropolymerization Coatings on Aluminum Alloy 3105 and Evaluating Their Corrosion Protection Performance. Transactions of the Indian Institute of Metals, 2014, 67, 511-520.	1.5	4
64	Electrochemical Synthesis of Some 6-Amino-5-hydroquinone-1,3-dimethyluracil Derivatives: A Green, Simple and Efficient Strategy. Journal of the Electrochemical Society, 2017, 164, G10-G16.	2.9	3
65	A green approach for the electroorganic synthesis of 2-[(4-methyl-2-pyridyl)amino]-1,4-benzenediol derivatives in aqueous solution. Journal of the Iranian Chemical Society, 2018, 15, 171-179.	2.2	1
66	Sensing and Monitoring. Carbon Nanostructures, 2018, , 171-186.	0.1	1