Fakiha Heakal

List of Publications by Year
in descending order

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Version: 2024-02-01

82 papers	2,502 citations	186209 28 h-index	206029 48 g-index
83 all docs	83 docs citations	83 times ranked	1985 citing authors

#	Article	IF	Citations
1	Potential Application of Carbonâ€based Electrical Sensor for the Highly Sensitive Diltiazem HCl Quantification in its Pharmaceutical Products and Biological Samples. Electroanalysis, 2023, 35, .	1.5	4
2	The potential of tantalum as an efficient electrocatalyst for green hydrogen production. Electrochimica Acta, 2022, 404, 139783.	2.6	6
3	Hydrothermal Microwave-Assisted Fabrication of Nanohydroxyapatite Powder and Optimization of Its Nanocomposite Coatings on Magnesium Alloy for Orthopedic Applications. ACS Omega, 2022, 7, 1021-1034.	1.6	4
4	Influence of anodization and bovine serum albumin on the degradation of new AXJ-magnesium alloy system as a bioabsorbable orthopedic implant. Journal of Electroanalytical Chemistry, 2022, 918, 116458.	1.9	5
5	Mesoporous Ni-Zn-Fe layered double hydroxide as an efficient binder-free electrode activeÂmaterial for high-performance supercapacitors. Journal of Power Sources, 2020, 466, 228294.	4.0	96
6	Insight into the Electrochemical and Semiconducting Properties of Native Oxide Films on Ti Metal and Its Tiâ€“6Alâ€“4V Alloy in Borate Buffer Solutions. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 333-342.	0.3	6
7	Synthesis of worm-like binary metallic active material by electroless deposition approach for high-performance supercapacitor. Journal of Energy Storage, 2020, 31, 101625.	3.9	18
8	An efficient graphene/graphite paste sensor chemically modified by diphenylcarbazone for the detection of Al(III) ions in real water samples. Microchemical Journal, 2020, 155, 104691.	2.3	7
9	Newly selective electrochemical sensors for trace-level determination of Al(III) ions in drainage water, spiked tap water and pharmaceutical preparation samples. Journal of the Iranian Chemical Society, 2019, 16, 2795-2807.	1.2	6
10	Mesoporous ZnMoS₄ as a supercapacitor electrode material with battery-like behavior. New Journal of Chemistry, 2019, 43, 1987-1992.	1.4	35
11	Electrochemical Characterization of Certain Mg-Based Alloys in Artificial Perspiration Biofluid for Consumer and Industrial Applications. Journal of Materials Engineering and Performance, 2019, 28, 4379-4392.	1.2	7
12	Role of amoxicillin in enhancing AZ31 alloy degradation resistance and its monitoring using nano-Pd electrochemical sensor. Materials Chemistry and Physics, 2019, 234, 224-236.	2.0	9
13	Improving the electrocatalytic performance of Pd nanoparticles supported on indium/tin oxide substrates towards glucose oxidation. Applied Catalysis A: General, 2019, 580, 28-33.	2.2	23
14	AEO7 Surfactant as an Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl solution. Scientific Reports, 2019, 9, 2319.	1.6	91
15	A facile electrosynthesis approach of amorphous Mn-Co-Fe ternary hydroxides as binder-free active electrode materials for high-performance supercapacitors. Electrochimica Acta, 2019, 296, 59-68.	2.6	128
16	Impact of pH and temperature on the electrochemical and semiconducting properties of zinc in alkaline buffer media. RSC Advances, 2018, 8, 3816-3827.	1.7	21
17	Monte Carlo simulation for guar and xanthan gums as green scale inhibitors. Journal of Petroleum Science and Engineering, 2018, 166, 263-273.	2.1	37
18	Characterization of newly synthesized pyrimidine derivatives for corrosion inhibition as inferred from computational chemical analysis. Journal of Molecular Structure, 2018, 1152, 328-336.	1.8	34

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19	Performance of Centaurea cyanus aqueous extract towards corrosion mitigation of carbon steel in saline formation water. Desalination, 2018, 425, 111-122.	4.0	73
20	Electrochemical measurements and semi-empirical calculations for understanding adsorption of novel cationic Gemini surfactant on carbon steel in H 2 SO 4 solution. Journal of Molecular Structure, 2018, 1156, 473-482.	1.8	25
21	Characterization of electrodeposited undoped and doped thin ZnO passive films on zinc metal in alkaline HCO₃^â/CO₃^{2â} buffer solution. RSC Advances, 2018, 8, 39321-39333.	1.7	4
22	Corrosion Degradation of AXJ530 Magnesium Alloy in Simulated Pysiological Fluid and Its Mitigation by Fluoride and Chitosan Coatings for Osteosynthetic Applications. International Journal of Electrochemical Science, 2018, 13, 7724-7747.	0.5	16
23	Serum albumin can influence magnesium alloy degradation in simulated blood plasma for cardiovascular stenting. Materials Chemistry and Physics, 2018, 220, 35-49.	2.0	30
24	Gemini surfactants as corrosion inhibitors for carbon steel. Journal of Molecular Liquids, 2017, 230, 395-407.	2.3	143
25	Optimizing parameters affecting electroless Ni-P coatings on AZ91D magnesium alloy as corrosion protection barriers. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 177-187.	0.3	8
26	Electrochemical and Quantum Chemical Studies on the Corrosion Inhibition Potential of Camellia sinensis Leaves Extract for Carbon Steel in Produced Water. Zeitschrift Fur Physikalische Chemie, 2017, 232, 13-35.	1.4	19
27	Relevant aspects in the stability performance of different anodic alumina (AAO) films in aqueous sulfate solutions. Journal of Electroanalytical Chemistry, 2017, 792, 95-103.	1.9	8
28	Synthesis and assessment of new cationic gemini surfactants as inhibitors for carbon steel corrosion in oilfield water. RSC Advances, 2017, 7, 47335-47352.	1.7	65
29	Green approach towards corrosion inhibition of carbon steel in produced oilfield water using lemongrass extract. RSC Advances, 2017, 7, 45241-45251.	1.7	69
30	Nanostructured spinel manganese cobalt ferrite for high-performance supercapacitors. RSC Advances, 2017, 7, 51888-51895.	1.7	98
31	Synthesis, characterization and computational chemical study of novel pyrazole derivatives as anticorrosion and antiscalant agents. Journal of Molecular Structure, 2017, 1147, 714-724.	1.8	36
32	Electrochemical Characterization of Nickel in Oxalic Acid Solutions and the Effect of Halides and Azide Ions Additions on Its Behavior. International Journal of Electrochemical Science, 2017, , 9378-9397.	0.5	5
33	Role of Some Plating Parameters in the Properties of Ni-P/Al2O3 Nanocomposite Coatings on Mg alloy. International Journal of Electrochemical Science, 2016, 11, 7198-7215.	0.5	12
34	RP-HPLC Stability-indicating Method for Estimation of Irbesartan and Hydrochlorothiazide in Bulk and Pharmaceutical Dosage Form. Chinese Journal of Analytical Chemistry, 2016, 44, e1601-e1608.	0.9	7
35	Effect of various de-anodizing techniques on the surface stability of non-colored and colored nanoporous AAO films in acidic solution. Applied Surface Science, 2015, 359, 939-947.	3.1	14
36	Degradation behaviour of AZ80E magnesium alloy exposed to phosphate buffer saline medium. Corrosion Science, 2014, 86, 285-294.	3.0	32

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37	Influence of cerium (III) ions on corrosion and hydrogen evolution of carbon steel in acid solutions. International Journal of Hydrogen Energy, 2012, 37, 19219-19230.	3.8	23
38	Enhanced corrosion resistance of magnesium alloy AM60 by cerium(III) in chloride solution. Corrosion Science, 2012, 56, 86-95.	3.0	61
39	Impact of chloride and fluoride additions on surface reactivity and passivity of AM60 magnesium alloy in buffer solution. Corrosion Science, 2012, 64, 153-163.	3.0	28
40	Investigation on the corrosion and hydrogen evolution for AZ91D magnesium alloy in single and anion-containing oxalate solutions. International Journal of Hydrogen Energy, 2012, 37, 84-94.	3.8	32
41	Electrochemical behaviour of the Mg alloy AZ91D in borate solutions. Corrosion Science, 2011, 53, 1174-1185.	3.0	56
42	Electrochemical behaviour of Tiâ€“6Alâ€“4V alloy and Ti in azide and halide solutions. Corrosion Science, 2011, 53, 2728-2737.	3.0	76
43	Effects of Nb and Cr on the Corrosion Characterization of Al-Containing Transformation-Induced Plasticity Steels in Neutral Chloride Solutions. Corrosion, 2011, 67, 095006-095006-9.	0.5	1
44	Inhibitive effect of some thiadiazole derivatives on C-steel corrosion in neutral sodium chloride solution. Materials Chemistry and Physics, 2011, 125, 26-36.	2.0	52
45	Influence of chloride ion concentration on the corrosion behavior of Al-bearing TRIP steels. Materials Chemistry and Physics, 2011, 130, 743-749.	2.0	31
46	Electrochemical performance of Mgâ€“9Alâ€“1Zn alloy in aqueous medium. Journal of Solid State Electrochemistry, 2011, 15, 125-138.	1.2	23
47	Electrochemical properties of the anodic films formed on titanium and its Tiâ€6Alâ€4V alloy in HBr solution. Surface and Interface Analysis, 2010, 42, 1695-1701.	0.8	7
48	Cyclic Voltammetric Studies on Selected Tin-Silver Binary Alloys in Sodium Hydroxide Solution. Corrosion, 2010, 66, 115001-115001-12.	0.5	1
49	Electrochemical behavior of 304L stainless steel in high saline and sulphate solutions containing alga Dunaliella Salina and Î²-carotene. Journal of Alloys and Compounds, 2010, 491, 636-642.	2.8	18
50	Role of some thiadiazole derivatives as inhibitors for the corrosion of C-steel in 1 M H2SO4. Journal of Applied Electrochemistry, 2009, 39, 391-402.	1.5	73
51	Electrochemical behavior of AZ91D magnesium alloy in phosphate mediumâ€”part I. Effect of pH. Journal of Applied Electrochemistry, 2009, 39, 583-591.	1.5	51
52	Electrochemical behavior of AZ91D magnesium alloy in phosphate medium: Part II. Induced passivation. Journal of Applied Electrochemistry, 2009, 39, 1633-1642.	1.5	39
53	Influence of halides on the dissolution and passivation behavior of AZ91D magnesium alloy in aqueous solutions. Electrochimica Acta, 2009, 54, 1545-1557.	2.6	106
54	Corrosion characterization of new tinâ€“silver binary alloys in nitric acid solutions. Corrosion Science, 2008, 50, 1618-1626.	3.0	62

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55	Experimental and Theoretical Study of Uracil and Adenine Inhibitors in Sn-Ag Alloy/Nitric Acid Corroding System. Journal of the Electrochemical Society, 2008, 155, C534.	1.3	42
56	Stability of spontaneous passive films on high strength Mo-containing stainless steels in aqueous solutions. Journal of Applied Electrochemistry, 2007, 37, 405-413.	1.5	44
57	Electrochemical Behavior of Sn-Ag Alloys in Sodium Fluoride Solutions. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 589-596.	0.5	8
58	Electrochemical behaviour of Mo-containing austenitic stainless steels in buffer solution. Materialwissenschaft Und Werkstofftechnik, 2004, 35, 407-412.	0.5	11
59	Electrochemical behaviour of passive films on molybdenum-containing austenitic stainless steels in aqueous solutions. Electrochimica Acta, 2004, 50, 43-49.	2.6	116
60	Formation and dissolution behaviour of ZrO2 film in H3PO4 acid solutions. Thin Solid Films, 1992, 219, 146-152.	0.8	12
61	Effect of Fluoride Media on the Stability of Anodic ZrO2Films. Corrosion, 1990, 46, 247-253.	0.5	13
62	Effect of pH on the formation-dissolution processes of anodic films on bismuth. Journal of Materials Science, 1990, 25, 1289-1293.	1.7	2
63	A study of the impedance characteristics of thin oxide films on bismuth. Thin Solid Films, 1990, 187, 221-230.	0.8	0
64	Some formation factors affecting the dissolution behaviour of anodic oxide films on aluminum in H3PO4. Thin Solid Films, 1990, 192, 193-199.	0.8	7
65	Dissolution of Oxalic Acid on Passive Bismuth. Corrosion, 1990, 46, 243-247.	0.5	0
66	Formation and dissolution of anodic oxide films on zirconium in NaOH: Kinetic studies. Journal of Applied Electrochemistry, 1989, 19, 213-218.	1.5	14
67	Valve metal behaviour of bismuth in NaOH. Journal of Applied Electrochemistry, 1988, 18, 555-560.	1.5	7
68	Anodic Behavior of Titanium in Aqueous Media. Corrosion, 1988, 44, 705-710.	0.5	16
69	Discussion on the Behavior of a Porous Anodic Film on Aluminum in H₃PO₄Studied by Electrochemical Techniques. Corrosion, 1988, 44, 354-359.	0.5	8
70	Kinetic studies of dissolution behaviour of bismuth and anodic oxide films in sulphuric acid. Corrosion Engineering Science and Technology, 1988, 23, 41-46.	0.3	8
71	Kinetic studies on the dissolution of the anodic oxide film on titanium in phosphoric acid solutions. Corrosion Science, 1987, 27, 453-462.	3.0	19
72	Catalytic reduction of In(III) at the dropping mercury electrode in 1 M NaN3 medium and the activation energies of its electrochemical processes. Surface and Coatings Technology, 1987, 31, 63-75.	2.2	0

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73	Retardation of the Cd²⁺ and In³⁺ Reduction Processes at DME in Chloride Medium in Relation to Adsorption of Coumarin. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 1205-1209.	0.9	0
74	Kinetic studies of the dissolution behaviour of anodic oxide films on Zr in H2SO4. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 147, 181-191.	0.3	39
75	Adsorption of adenosine molecules at the mercury-electrolyte interface as inferred from electrocapillary measurements in aqueous electrolytes. Surface Technology, 1983, 18, 293-302.	0.4	3
76	Differential capacitance of mercury in the absence and the presence of adenosine in aqueous electrolytes. Surface Technology, 1983, 18, 303-312.	0.4	3
77	Electrochemical Behaviour of Anodically formed Oxide Layers on Ti in HClO₄. Corrosion Engineering Science and Technology, 1983, 18, 156-159.	0.3	5
78	Adsorption behaviour and orientation of adenosine molecules at the mercury drop electrode: Congruence of isotherms with respect to the electrode potential and surface charge density in neutral electrolytes. Surface Technology, 1982, 17, 229-237.	0.4	2
79	Medium effects on the electroreduction of In(III) at DME. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 115, 247-251.	0.3	2
80	Impedance studies of the inhibitive effect of benzotriazole on the corrosion of copper in sodium chloride medium. Corrosion Science, 1980, 20, 887-898.	3.0	159
81	Adsorption and orientation of coumarin molecules on mercuryâ€”II. Electrochimica Acta, 1975, 20, 489-497.	2.6	12
82	Electrochemistry of the azide ionâ€”III. Reactivity of the azide ion compared with that of chloride and bromide ions towards electron transfer at electrodes. Electrochimica Acta, 1970, 15, 1391-1397.	2.6	9