

# Fakiha Heakal

## List of Publications by Year in descending order

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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	Impedance studies of the inhibitive effect of benzotriazole on the corrosion of copper in sodium chloride medium. <i>Corrosion Science</i> , 1980, 20, 887-898.	3.0	159
2	Gemini surfactants as corrosion inhibitors for carbon steel. <i>Journal of Molecular Liquids</i> , 2017, 230, 395-407.	2.3	143
3	A facile electrosynthesis approach of amorphous Mn-Co-Fe ternary hydroxides as binder-free active electrode materials for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 296, 59-68.	2.6	128
4	Electrochemical behaviour of passive films on molybdenum-containing austenitic stainless steels in aqueous solutions. <i>Electrochimica Acta</i> , 2004, 50, 43-49.	2.6	116
5	Influence of halides on the dissolution and passivation behavior of AZ91D magnesium alloy in aqueous solutions. <i>Electrochimica Acta</i> , 2009, 54, 1545-1557.	2.6	106
6	Nanostructured spinel manganese cobalt ferrite for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 51888-51895.	1.7	98
7	Mesoporous Ni-Zn-Fe layered double hydroxide as an efficient binder-free electrode active material for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 466, 228294.	4.0	96
8	AEO7 Surfactant as an Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl solution. <i>Scientific Reports</i> , 2019, 9, 2319.	1.6	91
9	Electrochemical behaviour of Ti-6Al-4V alloy and Ti in azide and halide solutions. <i>Corrosion Science</i> , 2011, 53, 2728-2737.	3.0	76
10	Role of some thiadiazole derivatives as inhibitors for the corrosion of C-steel in 1 M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Applied Electrochemistry</i> , 2009, 39, 391-402.	1.5	73
11	Performance of <i>Centaurea cyanus</i> aqueous extract towards corrosion mitigation of carbon steel in saline formation water. <i>Desalination</i> , 2018, 425, 111-122.	4.0	73
12	Green approach towards corrosion inhibition of carbon steel in produced oilfield water using lemongrass extract. <i>RSC Advances</i> , 2017, 7, 45241-45251.	1.7	69
13	Synthesis and assessment of new cationic gemini surfactants as inhibitors for carbon steel corrosion in oilfield water. <i>RSC Advances</i> , 2017, 7, 47335-47352.	1.7	65
14	Corrosion characterization of new tin-silver binary alloys in nitric acid solutions. <i>Corrosion Science</i> , 2008, 50, 1618-1626.	3.0	62
15	Enhanced corrosion resistance of magnesium alloy AM60 by cerium(III) in chloride solution. <i>Corrosion Science</i> , 2012, 56, 86-95.	3.0	61
16	Electrochemical behaviour of the Mg alloy AZ91D in borate solutions. <i>Corrosion Science</i> , 2011, 53, 1174-1185.	3.0	56
17	Inhibitive effect of some thiadiazole derivatives on C-steel corrosion in neutral sodium chloride solution. <i>Materials Chemistry and Physics</i> , 2011, 125, 26-36.	2.0	52
18	Electrochemical behavior of AZ91D magnesium alloy in phosphate medium—part I. Effect of pH. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 583-591.	1.5	51

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19	Stability of spontaneous passive films on high strength Mo-containing stainless steels in aqueous solutions. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 405-413.	1.5	44
20	Experimental and Theoretical Study of Uracil and Adenine Inhibitors in Sn-Ag Alloy/Nitric Acid Corroding System. <i>Journal of the Electrochemical Society</i> , 2008, 155, C534.	1.3	42
21	Kinetic studies of the dissolution behaviour of anodic oxide films on Zr in H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 147, 181-191.	0.3	39
22	Electrochemical behavior of AZ91D magnesium alloy in phosphate medium: Part II. Induced passivation. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1633-1642.	1.5	39
23	Monte Carlo simulation for guar and xanthan gums as green scale inhibitors. <i>Journal of Petroleum Science and Engineering</i> , 2018, 166, 263-273.	2.1	37
24	Synthesis, characterization and computational chemical study of novel pyrazole derivatives as anticorrosion and antiscalant agents. <i>Journal of Molecular Structure</i> , 2017, 1147, 714-724.	1.8	36
25	Mesoporous ZnMoS <sub>4</sub> as a supercapacitor electrode material with battery-like behavior. <i>New Journal of Chemistry</i> , 2019, 43, 1987-1992.	1.4	35
26	Characterization of newly synthesized pyrimidine derivatives for corrosion inhibition as inferred from computational chemical analysis. <i>Journal of Molecular Structure</i> , 2018, 1152, 328-336.	1.8	34
27	Investigation on the corrosion and hydrogen evolution for AZ91D magnesium alloy in single and anion-containing oxalate solutions. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 84-94.	3.8	32
28	Degradation behaviour of AZ80E magnesium alloy exposed to phosphate buffer saline medium. <i>Corrosion Science</i> , 2014, 86, 285-294.	3.0	32
29	Influence of chloride ion concentration on the corrosion behavior of Al-bearing TRIP steels. <i>Materials Chemistry and Physics</i> , 2011, 130, 743-749.	2.0	31
30	Serum albumin can influence magnesium alloy degradation in simulated blood plasma for cardiovascular stenting. <i>Materials Chemistry and Physics</i> , 2018, 220, 35-49.	2.0	30
31	Impact of chloride and fluoride additions on surface reactivity and passivity of AM60 magnesium alloy in buffer solution. <i>Corrosion Science</i> , 2012, 64, 153-163.	3.0	28
32	Electrochemical measurements and semi-empirical calculations for understanding adsorption of novel cationic Gemini surfactant on carbon steel in H <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of Molecular Structure</i> , 2018, 1156, 473-482.	1.8	25
33	Electrochemical performance of Mg <sup>90</sup> Al <sup>1</sup> Zn alloy in aqueous medium. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 125-138.	1.2	23
34	Influence of cerium (III) ions on corrosion and hydrogen evolution of carbon steel in acid solutions. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 19219-19230.	3.8	23
35	Improving the electrocatalytic performance of Pd nanoparticles supported on indium/tin oxide substrates towards glucose oxidation. <i>Applied Catalysis A: General</i> , 2019, 580, 28-33.	2.2	23
36	Impact of pH and temperature on the electrochemical and semiconducting properties of zinc in alkaline buffer media. <i>RSC Advances</i> , 2018, 8, 3816-3827.	1.7	21

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37	Kinetic studies on the dissolution of the anodic oxide film on titanium in phosphoric acid solutions. <i>Corrosion Science</i> , 1987, 27, 453-462.	3.0	19
38	Electrochemical and Quantum Chemical Studies on the Corrosion Inhibition Potential of <i>Camellia sinensis</i> Leaves Extract for Carbon Steel in Produced Water. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 232, 13-35.	1.4	19
39	Electrochemical behavior of 304L stainless steel in high saline and sulphate solutions containing alga <i>Dunaliella Salina</i> and $\beta$ -carotene. <i>Journal of Alloys and Compounds</i> , 2010, 491, 636-642.	2.8	18
40	Synthesis of worm-like binary metallic active material by electroless deposition approach for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2020, 31, 101625.	3.9	18
41	Anodic Behavior of Titanium in Aqueous Media. <i>Corrosion</i> , 1988, 44, 705-710.	0.5	16
42	Corrosion Degradation of AXJ530 Magnesium Alloy in Simulated Pysiological Fluid and Its Mitigation by Fluoride and Chitosan Coatings for Osteosynthetic Applications. <i>International Journal of Electrochemical Science</i> , 2018, 13, 7724-7747.	0.5	16
43	Formation and dissolution of anodic oxide films on zirconium in NaOH: Kinetic studies. <i>Journal of Applied Electrochemistry</i> , 1989, 19, 213-218.	1.5	14
44	Effect of various de-anodizing techniques on the surface stability of non-colored and colored nanoporous AAO films in acidic solution. <i>Applied Surface Science</i> , 2015, 359, 939-947.	3.1	14
45	Effect of Fluoride Media on the Stability of Anodic ZrO <sub>2</sub> Films. <i>Corrosion</i> , 1990, 46, 247-253.	0.5	13
46	Adsorption and orientation of coumarin molecules on mercury(II). <i>Electrochimica Acta</i> , 1975, 20, 489-497.	2.6	12
47	Formation and dissolution behaviour of ZrO <sub>2</sub> film in H <sub>3</sub> PO <sub>4</sub> acid solutions. <i>Thin Solid Films</i> , 1992, 219, 146-152.	0.8	12
48	Role of Some Plating Parameters in the Properties of Ni-P/Al <sub>2</sub> O <sub>3</sub> Nanocomposite Coatings on Mg alloy. <i>International Journal of Electrochemical Science</i> , 2016, 11, 7198-7215.	0.5	12
49	Electrochemical behaviour of Mo-containing austenitic stainless steels in buffer solution. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004, 35, 407-412.	0.5	11
50	Electrochemistry of the azide ion(III). Reactivity of the azide ion compared with that of chloride and bromide ions towards electron transfer at electrodes. <i>Electrochimica Acta</i> , 1970, 15, 1391-1397.	2.6	9
51	Role of amoxicillin in enhancing AZ31 alloy degradation resistance and its monitoring using nano-Pd electrochemical sensor. <i>Materials Chemistry and Physics</i> , 2019, 234, 224-236.	2.0	9
52	Discussion on the Behavior of a Porous Anodic Film on Aluminum in H <sub>3</sub> PO <sub>4</sub> Studied by Electrochemical Techniques. <i>Corrosion</i> , 1988, 44, 354-359.	0.5	8
53	Kinetic studies of dissolution behaviour of bismuth and anodic oxide films in sulphuric acid. <i>Corrosion Engineering Science and Technology</i> , 1988, 23, 41-46.	0.3	8
54	Electrochemical Behavior of Sn-Ag Alloys in Sodium Fluoride Solutions. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006, 37, 589-596.	0.5	8

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55	Optimizing parameters affecting electroless Ni-P coatings on AZ91D magnesium alloy as corrosion protection barriers. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 177-187.	0.3	8
56	Relevant aspects in the stability performance of different anodic alumina (AAO) films in aqueous sulfate solutions. <i>Journal of Electroanalytical Chemistry</i> , 2017, 792, 95-103.	1.9	8
57	Valve metal behaviour of bismuth in NaOH. <i>Journal of Applied Electrochemistry</i> , 1988, 18, 555-560.	1.5	7
58	Some formation factors affecting the dissolution behaviour of anodic oxide films on aluminum in H <sub>3</sub> PO <sub>4</sub> . <i>Thin Solid Films</i> , 1990, 192, 193-199.	0.8	7
59	Electrochemical properties of the anodic films formed on titanium and its Ti-6Al-4V alloy in HBr solution. <i>Surface and Interface Analysis</i> , 2010, 42, 1695-1701.	0.8	7
60	RP-HPLC Stability-indicating Method for Estimation of Irbesartan and Hydrochlorothiazide in Bulk and Pharmaceutical Dosage Form. <i>Chinese Journal of Analytical Chemistry</i> , 2016, 44, e1601-e1608.	0.9	7
61	Electrochemical Characterization of Certain Mg-Based Alloys in Artificial Perspiration Biofluid for Consumer and Industrial Applications. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4379-4392.	1.2	7
62	An efficient graphene/graphite paste sensor chemically modified by diphenylcarbazone for the detection of Al(III) ions in real water samples. <i>Microchemical Journal</i> , 2020, 155, 104691.	2.3	7
63	Newly selective electrochemical sensors for trace-level determination of Al(III) ions in drainage water, spiked tap water and pharmaceutical preparation samples. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 2795-2807.	1.2	6
64	Insight into the Electrochemical and Semiconducting Properties of Native Oxide Films on Ti Metal and Its Ti-6Al-4V Alloy in Borate Buffer Solutions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 333-342.	0.3	6
65	The potential of tantalum as an efficient electrocatalyst for green hydrogen production. <i>Electrochimica Acta</i> , 2022, 404, 139783.	2.6	6
66	Electrochemical Behaviour of Anodically formed Oxide Layers on Ti in HClO <sub>4</sub> . <i>Corrosion Engineering Science and Technology</i> , 1983, 18, 156-159.	0.3	5
67	Electrochemical Characterization of Nickel in Oxalic Acid Solutions and the Effect of Halides and Azide Ions Additions on Its Behavior. <i>International Journal of Electrochemical Science</i> , 2017, , 9378-9397.	0.5	5
68	Influence of anodization and bovine serum albumin on the degradation of new AXJ-magnesium alloy system as a bioabsorbable orthopedic implant. <i>Journal of Electroanalytical Chemistry</i> , 2022, 918, 116458.	1.9	5
69	Characterization of electrodeposited undoped and doped thin ZnO passive films on zinc metal in alkaline HCO <sub>3</sub> <sup>-</sup> /CO <sub>3</sub> <sup>2-</sup> buffer solution. <i>RSC Advances</i> , 2018, 8, 39321-39333.	1.7	4
70	Hydrothermal Microwave-Assisted Fabrication of Nanohydroxyapatite Powder and Optimization of Its Nanocomposite Coatings on Magnesium Alloy for Orthopedic Applications. <i>ACS Omega</i> , 2022, 7, 1021-1034.	1.6	4
71	Potential Application of Carbon-based Electrical Sensor for the Highly Sensitive Diltiazem HCl Quantification in its Pharmaceutical Products and Biological Samples. <i>Electroanalysis</i> , 2023, 35, .	1.5	4
72	Adsorption of adenosine molecules at the mercury-electrolyte interface as inferred from electrocapillary measurements in aqueous electrolytes. <i>Surface Technology</i> , 1983, 18, 293-302.	0.4	3

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73	Differential capacitance of mercury in the absence and the presence of adenosine in aqueous electrolytes. <i>Surface Technology</i> , 1983, 18, 303-312.	0.4	3
74	Medium effects on the electroreduction of In(III) at DME. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1980, 115, 247-251.	0.3	2
75	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. <i>Surface Technology</i> , 1982, 17, 229-237.	0.4	2
76	Effect of pH on the formation-dissolution processes of anodic films on bismuth. <i>Journal of Materials Science</i> , 1990, 25, 1289-1293.	1.7	2
77	Cyclic Voltammetric Studies on Selected Tin-Silver Binary Alloys in Sodium Hydroxide Solution. <i>Corrosion</i> , 2010, 66, 115001-115001-12.	0.5	1
78	Effects of Nb and Cr on the Corrosion Characterization of Al-Containing Transformation-Induced Plasticity Steels in Neutral Chloride Solutions. <i>Corrosion</i> , 2011, 67, 095006-095006-9.	0.5	1
79	Retardation of the Cd <sup>2+</sup> and In <sup>3+</sup> Reduction Processes at DME in Chloride Medium in Relation to Adsorption of Coumarin. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1986, 90, 1205-1209.	0.9	0
80	Catalytic reduction of In(III) at the dropping mercury electrode in 1 M Na <sub>3</sub> N medium and the activation energies of its electrochemical processes. <i>Surface and Coatings Technology</i> , 1987, 31, 63-75.	2.2	0
81	A study of the impedance characteristics of thin oxide films on bismuth. <i>Thin Solid Films</i> , 1990, 187, 221-230.	0.8	0
82	Dissolution of Oxalic Acid on Passive Bismuth. <i>Corrosion</i> , 1990, 46, 243-247.	0.5	0