GÃ¼lfeza KardaÅ

List of Publications by Year
in descending order

103 papers	6,140 citations	71102 41 h-index	71685 76 g-index
105 all docs	105 docs citations	105 times ranked	3878 citing authors

#	Article	IF	Citations
1	Investigation of adsorption and inhibitive effect of 2-mercaptothiazoline on corrosion of mild steel in hydrochloric acid media. Electrochimica Acta, 2008, 53, 5941-5952.	5.2	727
2	Experimental and theoretical studies of thiazoles as corrosion inhibitors for mild steel in sulphuric acid solution. Corrosion Science, 2011, 53, 2902-2913.	6.6	408
3	Adsorption and corrosion inhibitive properties of 2-amino-5-mercapto-1,3,4-thiadiazole on mild steel in hydrochloric acid media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 312, 7-17.	4.7	333
4	Adsorption and inhibition effect of 2-thiohydantoin on mild steel corrosion in 0.1 M HCl. Corrosion Science, 2012, 58, 86-94.	6.6	197
5	Adsorption and corrosion inhibition effect of 2-((5-mercapto-1,3,4-thiadiazol-2-ylimino)methyl)phenol Schiff base on mild steel. Materials Chemistry and Physics, 2011, 125, 796-801.	4.0	195
6	Electrochemical and quantum chemical studies of 2-amino-4-methyl-thiazole as corrosion inhibitor for mild steel in HCl solution. Corrosion Science, 2014, 83, 310-316.	6.6	192
7	Electrochemical deposition and characterization of NiFe coatings as electrocatalytic materials for alkaline water electrolysis. Electrochimica Acta, 2009, 54, 3726-3734.	5.2	191
8	Experimental and theoretical investigation of 3-amino-1,2,4-triazole-5-thiol as a corrosion inhibitor for carbon steel in HCl medium. Corrosion Science, 2011, 53, 4265-4272.	6.6	189
9	The investigation of synergistic inhibition effect of rhodanine and iodide ion on the corrosion of copper in sulphuric acid solution. Corrosion Science, 2011, 53, 3231-3240.	6.6	169
10	N-Aminorhodanine as an effective corrosion inhibitor for mild steel in 0.5M H2SO4. Corrosion Science, 2011, 53, 4223-4232.	6.6	150
11	Electrochemical deposition and characterization of NiCu coatings as cathode materials for hydrogen evolution reaction. Electrochemistry Communications, 2008, 10, 1909-1911.	4.7	137
12	Adsorption properties of barbiturates as green corrosion inhibitors on mild steel in phosphoric acid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 325, 57-63.	4.7	135
13	The stability of hydrogen evolution activity and corrosion behavior of NiCu coatings with long-term electrolysis in alkaline solution. International Journal of Hydrogen Energy, 2009, 34, 2089-2094.	7.1	119
14	Inhibition effect of 2-amino-4-methylpyridine on mild steel corrosion: Experimental and theoretical investigation. Corrosion Science, 2014, 85, 287-295.	6.6	118
15	Investigation of corrosion inhibition effect of 3-[(2-hydroxy-benzylidene)-amino]-2-thioxo-thiazolidin-4-one on corrosion of mild steel in the acidic medium. Corrosion Science, 2013, 66, 278-284.	6.6	113
16	Fabrication and characterization of NiCoZnâ€“M (M: Ag, Pd and Pt) electrocatalysts as cathode materials for electrochemical hydrogen production. International Journal of Hydrogen Energy, 2011, 36, 12079-12087.	7.1	95
17	Thermal enhancement of concrete by adding bio-based fatty acids as phase change materials. Energy and Buildings, 2015, 106, 156-163.	6.7	86
18	Inhibition Effect of Rhodanine for Corrosion of Mild Steel in Hydrochloric Acid Solution. Protection of Metals, 2005, 41, 581-585.	0.2	83

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19	A novel thiophene Schiff base as an efficient corrosion inhibitor for mild steel in 1.0â€¯M HCl: Electrochemical and quantum chemical studies. Journal of Molecular Liquids, 2018, 269, 398-406.	4.9	81
20	Adsorption and Corrosion Inhibition Effect of 1,1â€²-Thiocarbonyldiimidazole on Mild Steel in H2SO4 Solution and Synergistic Effect of Iodide Ion. Acta Physico-chimica Sinica, 2008, 24, 1185-1191.	0.6	78
21	Hydrogen evolution and corrosion performance of NiZn coatings. Energy Conversion and Management, 2007, 48, 583-591.	9.2	75
22	The stability of NiCoZn electrocatalyst for hydrogen evolution activity in alkaline solution during long-term electrolysis. International Journal of Hydrogen Energy, 2009, 34, 7910-7918.	7.1	74
23	The corrosion performance of polyaniline on nickel plated mild steel. Applied Surface Science, 2005, 242, 97-106.	6.1	68
24	Composites of Bimetallic Platinum-Cobalt Alloy Nanoparticles and Reduced Graphene Oxide for Electrochemical Determination of Ascorbic Acid, Dopamine, and Uric Acid. Scientific Reports, 2019, 9, 12258.	3.3	67
25	Electrochemical synthesis and characterization of a new conducting polymer: Polyrhodanine. Applied Surface Science, 2007, 253, 3402-3407.	6.1	61
26	Investigation of inhibition effect of rhodanine-N-acetic acid on mild steel corrosion in HCl solution. Materials Chemistry and Physics, 2012, 131, 615-620.	4.0	61
27	Enhancement of hydrogen evolution at cobaltâ€“zinc deposited graphite electrode in alkaline solution. International Journal of Hydrogen Energy, 2011, 36, 7391-7397.	7.1	58
28	Robust microencapsulated phase change materials in concrete mixes for sustainable buildings. International Journal of Energy Research, 2017, 41, 113-126.	4.5	58
29	Preparation, characterization and application of alkaline leached CuNiZn ternary coatings for long-term electrolysis in alkaline solution. International Journal of Hydrogen Energy, 2010, 35, 10045-10049.	7.1	57
30	A comparative study on corrosion behavior of rebar in concrete with fatty acid additive as phase change material. Construction and Building Materials, 2017, 143, 490-500.	7.2	57
31	Inhibition Effect of Rhodanine-N-Acetic Acid on Copper Corrosion in Acidic Media. Industrial & Engineering Chemistry Research, 2013, 52, 9709-9718.	3.7	56
32	Photoelectrochemical characteristics of CuO films with different electrodeposition time. International Journal of Hydrogen Energy, 2017, 42, 23268-23275.	7.1	56
33	NiMn composite electrodes as cathode material for hydrogen evolution reaction in alkaline solution. International Journal of Hydrogen Energy, 2013, 38, 4466-4473.	7.1	54
34	Electrocatalysis of Ni-promoted Cd coated graphite toward methanol oxidation in alkaline medium. Journal of Power Sources, 2012, 205, 71-79.	7.8	53
35	Effect of C-felt supported Ni, Co and NiCo catalysts to produce hydrogen. International Journal of Hydrogen Energy, 2012, 37, 9470-9476.	7.1	52
36	The Ni-deposited carbon felt as substrate for preparation ofÂPt-modifiedÂelectrocatalysts: Application for alkaline water electrolysis. International Journal of Hydrogen Energy, 2012, 37, 8917-8922.	7.1	51

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37	Investigation of suitable cathodes for the production of hydrogen gas by electrolysis. International Journal of Hydrogen Energy, 1995, 20, 957-965.	7.1	50
38	The Inhibition Effect of 2-Thiobarbituric Acid on the Corrosion Performance of Mild Steel in HCl Solutions. Materials Science, 2005, 41, 337-343.	0.9	49
39	Electrochemical Investigation of Barbiturates as Green Corrosion Inhibitors for Mild Steel Protection. Corrosion Reviews, 2006, 24, .	2.0	46
40	Electrochemical synthesis and characterization of poly-2-aminothiazole. Progress in Organic Coatings, 2009, 64, 81-88.	3.9	46
41	Preparation and characterization of Pd-modified Raney-type NiZn coatings and their application for alkaline water electrolysis. International Journal of Hydrogen Energy, 2017, 42, 2464-2475.	7.1	45
42	Experimental and quantum chemical studies on corrosion inhibition effect of 5,5 diphenyl 2-thiohydantoin on mild steel in HCl solution. Journal of Molecular Liquids, 2016, 218, 384-392.	4.9	44
43	2 years of monitoring results from passive solar energy storage in test cabins with phase change materials. Solar Energy, 2020, 200, 29-36.	6.1	41
44	The Rhodanine inhibition effect on the corrosion of a mild steel in acid along the exposure time. Protection of Metals, 2007, 43, 476-482.	0.2	40
45	Electrocatalytic behavior of the Pd-modified electrocatalyst forÂhydrogen evolution. International Journal of Hydrogen Energy, 2013, 38, 3881-3888.	7.1	39
46	Copper/polypyrrole multilayer coating for 7075 aluminum alloy protection. Progress in Organic Coatings, 2011, 72, 748-754.	3.9	37
47	Citric acid as natural corrosion inhibitor for aluminium protection. Corrosion Engineering Science and Technology, 2008, 43, 186-191.	1.4	36
48	Enhancement of electrochemical activity of Raney-type NiZn coatings by modifying with PtRu binary deposits: Application for alkaline water electrolysis. International Journal of Hydrogen Energy, 2016, 41, 1432-1440.	7.1	36
49	Preparation, characterization, and thermal properties of novel fire-resistant microencapsulated phase change materials based on paraffin and a polystyrene shell. RSC Advances, 2020, 10, 24134-24144.	3.6	34
50	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 â€“ morphological and structural characterization, physico-chemical stability and mechanical properties. Renewable and Sustainable Energy Reviews, 2015, 43, 1415-1426.	16.4	33
51	Three dimensional rosette-rod TiO2/Bi2S3 heterojunction for enhanced photoelectrochemical water splitting. Journal of Alloys and Compounds, 2021, 868, 159133.	5.5	33
52	Corrosion behaviour of polyrhodanine coated copper electrode in 0.1M H2SO4 solution. Materials Chemistry and Physics, 2010, 121, 354-358.	4.0	32
53	Direct Incorporation of Butyl Stearate as Phase Change Material into Concrete for Energy Saving in Buildings. Journal of Clean Energy Technologies, 2017, 5, 64-68.	0.1	32
54	Adsorption ability, stability and corrosion inhibition mechanism of phoenix dactylifera extrat on mild steel. Materials Research Express, 2020, 7, 016585.	1.6	31

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55	Electrocatalytic oxidation of methanol on Ru deposited NiZn catalyst at graphite in alkaline medium. Electrochimica Acta, 2013, 107, 216-224.	5.2	29
56	Polypyrrole and polyaniline top coats on nickel coated mild steel. Progress in Organic Coatings, 2004, 51, 27-35.	3.9	28
57	Inhibitive effect of 4-amino-N-benzylidene-benzamide Schiff base on mild steel corrosion in HCl solution. Journal of Adhesion Science and Technology, 2020, 34, 135-152.	2.6	28
58	Fabrication and characterization of alkaline leached CuZn/Cu electrode as anode material for direct methanol fuel cell. Energy, 2015, 90, 1144-1151.	8.8	27
59	Enhanced photoelectrochemical water splitting using gadolinium doped titanium dioxide nanorod array photoanodes. International Journal of Hydrogen Energy, 2020, 45, 2709-2719.	7.1	27
60	The noble metal loading binary ironâ€“zinc electrode for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 6455-6461.	7.1	26
61	NiGa modified carbon-felt cathode for hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 14157-14163.	7.1	26
62	Electrocatalytic behaviour of NiBi coatings for hydrogen evolution reaction in alkaline medium. Journal of Alloys and Compounds, 2011, 509, 9190-9194.	5.5	24
63	Experimental and theoretical studies on electrochemical synthesis of poly(3-amino-1,2,4-triazole). Applied Surface Science, 2012, 258, 9668-9674.	6.1	24
64	Investigation of the hydrogen evolution on Ni deposited titanium oxide nano tubes. International Journal of Hydrogen Energy, 2012, 37, 11625-11631.	7.1	24
65	Hydrogen evolution stability of platinum modified graphite electrode. International Journal of Hydrogen Energy, 2014, 39, 11355-11359.	7.1	22
66	Criss-crossed Î±-Fe2O3 nanorods/Bi2S3 heterojunction for enhanced photoelectrochemical water splitting. Fuel, 2022, 324, 124477.	6.4	21
67	Electrocatalytic oxidation of methanol on Pt/NiZn electrode in alkaline medium. Russian Journal of Electrochemistry, 2011, 47, 811-818.	0.9	20
68	A novel, effective and low cost electrocatalyst for direct methanol fuel cells applications. International Journal of Hydrogen Energy, 2015, 40, 4840-4849.	7.1	20
69	Cobalt-modified nickelâ€“zinc catalyst for electrooxidation of methanol in alkaline medium. Journal of Solid State Electrochemistry, 2013, 17, 2871-2877.	2.5	19
70	Effect of current change on iron-copper-nickel coating on nickel foam for hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 14151-14156.	7.1	19
71	Copper modified poly-6-amino-m-cresol (poly-AmC/Cu) coating for mild steel protection. Surface and Coatings Technology, 2009, 203, 1469-1473.	4.8	17
72	Investigating Rhodanine film formation on roughened Cu surfaces with electrochemical impedance spectroscopy and surface-enhanced Raman scattering spectroscopy. Corrosion Science, 2014, 83, 59-66.	6.6	17

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73	A study on the inhibition effect of expired amoxicillin on mild steel corrosion in 1N HCl. Materials Research Express, 2019, 6, 046419.	1.6	17
74	Optimizing copper oxide layer on zinc oxide via two-step electrodeposition for better photocatalytic performance in photoelectrochemical cells. Applied Surface Science, 2019, 479, 1110-1117.	6.1	16
75	Investigation of noble metal loading CoWZn electrode for HER. International Journal of Hydrogen Energy, 2017, 42, 23260-23267.	7.1	15
76	Electrochemical preparation and characterization of nickel and zinc-modified poly-2-aminothiazole films on mild steel surface and their corrosion inhibition performance. Reactive and Functional Polymers, 2011, 71, 1148-1154.	4.1	14
77	Investigation of adsorption and corrosion inhibition effect of 1,1â€™-thiocarbonyldiimidazole on mild steel in hydrochloric acid solution. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 264-271.	1.1	14
78	Anticorrosion Effect of 4â€Aminoâ€5â€(4â€pyridyl)â€4Hâ€1,2,4â€triazoleâ€3â€thiol for Mild Steel in HCl Solution. ChemistrySelect, 2017, 2, 3676-3682.	1.5	14
79	Effect of Sr doping on the electronic band structure and optical properties of ZnO: A first principle calculation. Journal of Applied Physics, 2017, 122, .	2.5	14
80	The photoelectrocatalytic activity, long term stability and corrosion performance of NiMo deposited titanium oxide nano-tubes for hydrogen production in alkaline medium. Applied Surface Science, 2017, 423, 704-715.	6.1	14
81	Comprehensive investigation of butyl stearate as a multifunctional smart concrete additive for energyâ€efficient buildings. International Journal of Energy Research, 2019, 43, 7146.	4.5	13
82	Anodizing and corrosion behaviour of aluminium. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 102-107.	1.1	12
83	Effect of some primary alcohols on hydrogen yield on platinum cathode in chloride solution. International Journal of Hydrogen Energy, 2003, 28, 1213-1218.	7.1	11
84	Characterization of Concrete Mixes Containing Phase Change Materials. IOP Conference Series: Materials Science and Engineering, 2017, 251, 012118.	0.6	10
85	The role of Spirulina platensis on corrosion behavior of carbon steel. Materials Chemistry and Physics, 2011, 130, 697-701.	4.0	9
86	Illuminating of mild steel/HCl interface in the presence of 5-DAT inhibitor. Journal of Molecular Liquids, 2021, 326, 115380.	4.9	9
87	The electrocatalytic properties of lithium copper composite in the oxygen reduction reaction. Electrochimica Acta, 2014, 148, 276-282.	5.2	8
88	The experimental and quantum chemical investigation for two isomeric compounds as aminopyrazine and 2-amino-pyrimidine against mild steel corrosion. Anti-Corrosion Methods and Materials, 2016, 63, 369-376.	1.5	8
89	Enhanced photoelectrochemical activity of electrochemically deposited ZnO nanorods for water splitting reaction. Journal of Materials Science: Materials in Electronics, 2018, 29, 9547-9554.	2.2	8
90	Synthesis of phosphine-containing novel Pd(II) and Ni(II) complexes: Electrochemical, photophysical and quantum chemical studies. Journal of Molecular Structure, 2019, 1198, 126889.	3.6	8

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91	The investigation of Cu2O electrochemical deposition time effect on ZnO for water splitting. Journal of Molecular Structure, 2019, 1193, 342-347.	3.6	8
92	Evaluation of corrosion resistance and surface characteristics of orthodontic wires immersed in different mouthwashes. Bio-Medical Materials and Engineering, 2016, 27, 539-549.	0.6	6
93	A study of the effect of Agave Americana extract inhibitor on the corrosion of mild steel in 0.5 M H₂SO₄. Materials Research Express, 2019, 6, 016504.	1.6	6
94	Molybdenum disulfide as the interfacial layer in the CuOâ€“TiO2 photocathode for photoelectrochemical cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 12937-12943.	2.2	5
95	Thermal decomposition of sol-gel derived Zn0.8Ga0.2O precursor-gel: A kinetic, thermodynamic, and DFT studies. Acta Materialia, 2018, 146, 152-159.	7.9	5
96	2.12 Electrolytic Materials. , 2018, , 329-367.		5
97	Enhanced electrocatalytic efficiency of C/MWNTs for methanol oxidation using Ni deposited on MWNTs. Turkish Journal of Chemistry, 2015, 39, 813-823.	1.2	3
98	Comparison of nonaqueous electrolytes on oxygen reduction in Li-air batteries. Journal of Molecular Liquids, 2016, 223, 343-349.	4.9	3
99	Cu(I) complexes sensitized ZnO nanorods for photocatalytic water splitting. Journal of Molecular Structure, 2021, 1236, 130274.	3.6	3
100	A new catalyst for <scp>HER</scp> : <scp>Tinâ€Cobalt</scp> Coâ€deposited nickel matrix. International Journal of Energy Research, 2022, 46, 14005-14013.	4.5	3
101	Evaluation of nanoparticle formation and magnetic properties by boron doping in Ni/NiOÎ´ nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 14591-14600.	2.2	2
102	Electrochemical performance of lithium molybdenum composite catalyst in oxygen reduction reaction. International Journal of Hydrogen Energy, 2015, 40, 8889-8896.	7.1	1
103	ZIF-Derived CuPt@Ag as Catalyst for Hydrogen Evolution Reaction. Journal of Basic & Applied Sciences, 0, 17, 153-161.	0.8	0