

GÃ¼lfeza KardaÅ

List of Publications by Year in descending order

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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	Criss-crossed Fe_2O_3 nanorods/ Bi_2S_3 heterojunction for enhanced photoelectrochemical water splitting. <i>Fuel</i> , 2022, 324, 124477.	6.4	21
2	A new catalyst for HER : Ti-Co deposited nickel matrix. <i>International Journal of Energy Research</i> , 2022, 46, 14005-14013.	4.5	3
3	Illuminating of mild steel/ HCl interface in the presence of 5-DAT inhibitor. <i>Journal of Molecular Liquids</i> , 2021, 326, 115380.	4.9	9
4	Cu(I) complexes sensitized ZnO nanorods for photocatalytic water splitting. <i>Journal of Molecular Structure</i> , 2021, 1236, 130274.	3.6	3
5	Three dimensional rosette-rod $\text{TiO}_2/\text{Bi}_2\text{S}_3$ heterojunction for enhanced photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159133.	5.5	33
6	2 years of monitoring results from passive solar energy storage in test cabins with phase change materials. <i>Solar Energy</i> , 2020, 200, 29-36.	6.1	41
7	Inhibitive effect of 4-amino-N-benzylidene-benzamide Schiff base on mild steel corrosion in HCl solution. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 135-152.	2.6	28
8	Enhanced photoelectrochemical water splitting using gadolinium doped titanium dioxide nanorod array photoanodes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2709-2719.	7.1	27
9	Evaluation of nanoparticle formation and magnetic properties by boron doping in Ni/NiO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14591-14600.	2.2	2
10	Preparation, characterization, and thermal properties of novel fire-resistant microencapsulated phase change materials based on paraffin and a polystyrene shell. <i>RSC Advances</i> , 2020, 10, 24134-24144.	3.6	34
11	Adsorption ability, stability and corrosion inhibition mechanism of phoenix dactylifera extrat on mild steel. <i>Materials Research Express</i> , 2020, 7, 016585.	1.6	31
12	Effect of current change on iron-copper-nickel coating on nickel foam for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14151-14156.	7.1	19
13	Comprehensive investigation of butyl stearate as a multifunctional smart concrete additive for energy-efficient buildings. <i>International Journal of Energy Research</i> , 2019, 43, 7146.	4.5	13
14	Composites of Bimetallic Platinum-Cobalt Alloy Nanoparticles and Reduced Graphene Oxide for Electrochemical Determination of Ascorbic Acid, Dopamine, and Uric Acid. <i>Scientific Reports</i> , 2019, 9, 12258.	3.3	67
15	Synthesis of phosphine-containing novel Pd(II) and Ni(II) complexes: Electrochemical, photophysical and quantum chemical studies. <i>Journal of Molecular Structure</i> , 2019, 1198, 126889.	3.6	8
16	The investigation of Cu_2O electrochemical deposition time effect on ZnO for water splitting. <i>Journal of Molecular Structure</i> , 2019, 1193, 342-347.	3.6	8
17	Optimizing copper oxide layer on zinc oxide via two-step electrodeposition for better photocatalytic performance in photoelectrochemical cells. <i>Applied Surface Science</i> , 2019, 479, 1110-1117.	6.1	16
18	A study on the inhibition effect of expired amoxicillin on mild steel corrosion in 1N HCl . <i>Materials Research Express</i> , 2019, 6, 046419.	1.6	17

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19	A study of the effect of Agave Americana extract inhibitor on the corrosion of mild steel in 0.5 M H ₂ SO ₄ . Materials Research Express, 2019, 6, 016504.	1.6	6
20	NiGa modified carbon-felt cathode for hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 14157-14163.	7.1	26
21	Thermal decomposition of sol-gel derived Zn _{0.8} Ga _{0.2} O precursor-gel: A kinetic, thermodynamic, and DFT studies. Acta Materialia, 2018, 146, 152-159.	7.9	5
22	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
23	2.12 Electrolytic Materials. , 2018, , 329-367.		5
24	A novel thiophene Schiff base as an efficient corrosion inhibitor for mild steel in 1.0 M HCl: Electrochemical and quantum chemical studies. Journal of Molecular Liquids, 2018, 269, 398-406.	4.9	81
25	The noble metal loading binary iron-zinc electrode for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 6455-6461.	7.1	26
26	Investigation of noble metal loading CoWZn electrode for HER. International Journal of Hydrogen Energy, 2017, 42, 23260-23267.	7.1	15
27	Anticorrosion Effect of 4-Amino-5-(4-pyridyl)-1,2,4-triazole-3-thiol for Mild Steel in HCl Solution. ChemistrySelect, 2017, 2, 3676-3682.	1.5	14
28	Molybdenum disulfide as the interfacial layer in the CuO-TiO ₂ photocathode for photoelectrochemical cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 12937-12943.	2.2	5
29	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
30	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
31	Photoelectrochemical characteristics of CuO films with different electrodeposition time. International Journal of Hydrogen Energy, 2017, 42, 23268-23275.	7.1	56
32	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
33	Robust microencapsulated phase change materials in concrete mixes for sustainable buildings. International Journal of Energy Research, 2017, 41, 113-126.	4.5	58
34	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
35	Characterization of Concrete Mixes Containing Phase Change Materials. IOP Conference Series: Materials Science and Engineering, 2017, 251, 012118.	0.6	10
36	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

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37	Evaluation of corrosion resistance and surface characteristics of orthodontic wires immersed in different mouthwashes. <i>Bio-Medical Materials and Engineering</i> , 2016, 27, 539-549.	0.6	6
38	Comparison of nonaqueous electrolytes on oxygen reduction in Li-air batteries. <i>Journal of Molecular Liquids</i> , 2016, 223, 343-349.	4.9	3
39	The experimental and quantum chemical investigation for two isomeric compounds as aminopyrazine and 2-amino-pyrimidine against mild steel corrosion. <i>Anti-Corrosion Methods and Materials</i> , 2016, 63, 369-376.	1.5	8
40	Enhancement of electrochemical activity of Raney-type NiZn coatings by modifying with PtRu binary deposits: Application for alkaline water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1432-1440.	7.1	36
41	Experimental and quantum chemical studies on corrosion inhibition effect of 5,5 diphenyl 2-thiohydantoin on mild steel in HCl solution. <i>Journal of Molecular Liquids</i> , 2016, 218, 384-392.	4.9	44
42	Enhanced electrocatalytic efficiency of C/MWNTs for methanol oxidation using Ni deposited on MWNTs. <i>Turkish Journal of Chemistry</i> , 2015, 39, 813-823.	1.2	3
43	A novel, effective and low cost electrocatalyst for direct methanol fuel cells applications. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4840-4849.	7.1	20
44	Fabrication and characterization of alkaline leached CuZn/Cu electrode as anode material for direct methanol fuel cell. <i>Energy</i> , 2015, 90, 1144-1151.	8.8	27
45	Thermal enhancement of concrete by adding bio-based fatty acids as phase change materials. <i>Energy and Buildings</i> , 2015, 106, 156-163.	6.7	86
46	Electrochemical performance of lithium molybdenum composite catalyst in oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8889-8896.	7.1	1
47	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 – morphological and structural characterization, physico-chemical stability and mechanical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1415-1426.	16.4	33
48	Inhibition effect of 2-amino-4-methylpyridine on mild steel corrosion: Experimental and theoretical investigation. <i>Corrosion Science</i> , 2014, 85, 287-295.	6.6	118
49	Electrochemical and quantum chemical studies of 2-amino-4-methyl-thiazole as corrosion inhibitor for mild steel in HCl solution. <i>Corrosion Science</i> , 2014, 83, 310-316.	6.6	192
50	Investigating Rhodanine film formation on roughened Cu surfaces with electrochemical impedance spectroscopy and surface-enhanced Raman scattering spectroscopy. <i>Corrosion Science</i> , 2014, 83, 59-66.	6.6	17
51	The electrocatalytic properties of lithium copper composite in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2014, 148, 276-282.	5.2	8
52	Hydrogen evolution stability of platinum modified graphite electrode. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11355-11359.	7.1	22
53	Inhibition Effect of Rhodanine-N-Acetic Acid on Copper Corrosion in Acidic Media. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9709-9718.	3.7	56
54	Electrocatalytic oxidation of methanol on Ru deposited NiZn catalyst at graphite in alkaline medium. <i>Electrochimica Acta</i> , 2013, 107, 216-224.	5.2	29

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55	Electrocatalytic behavior of the Pd-modified electrocatalyst for hydrogen evolution. International Journal of Hydrogen Energy, 2013, 38, 3881-3888.	7.1	39
56	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
57	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
58	Cobalt-modified nickel-zinc catalyst for electrooxidation of methanol in alkaline medium. Journal of Solid State Electrochemistry, 2013, 17, 2871-2877.	2.5	19
59	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
60	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
61	Investigation of the hydrogen evolution on Ni deposited titanium oxide nano tubes. International Journal of Hydrogen Energy, 2012, 37, 11625-11631.	7.1	24
62	The Ni-deposited carbon felt as substrate for preparation of Pt-modified electrocatalysts: Application for alkaline water electrolysis. International Journal of Hydrogen Energy, 2012, 37, 8917-8922.	7.1	51
63	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
64	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
65	Electrocatalysis of Ni-promoted Cd coated graphite toward methanol oxidation in alkaline medium. Journal of Power Sources, 2012, 205, 71-79.	7.8	53
66	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
67	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
68	N-Aminorhodanine as an effective corrosion inhibitor for mild steel in 0.5M H2SO4. Corrosion Science, 2011, 53, 4223-4232.	6.6	150
69	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
70	Electrocatalytic behaviour of NiBi coatings for hydrogen evolution reaction in alkaline medium. Journal of Alloys and Compounds, 2011, 509, 9190-9194.	5.5	24
71	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
72	Copper/polypyrrole multilayer coating for 7075 aluminum alloy protection. Progress in Organic Coatings, 2011, 72, 748-754.	3.9	37

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73	Adsorption and corrosion inhibition effect of 2-((5-mercapto-1,3,4-thiadiazol-2-ylimino)methyl)phenol Schiff base on mild steel. <i>Materials Chemistry and Physics</i> , 2011, 125, 796-801.	4.0	195
74	The role of <i>Spirulina platensis</i> on corrosion behavior of carbon steel. <i>Materials Chemistry and Physics</i> , 2011, 130, 697-701.	4.0	9
75	Fabrication and characterization of NiCoZnâ€M (M: Ag, Pd and Pt) electrocatalysts as cathode materials for electrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12079-12087.	7.1	95
76	Anodizing and corrosion behaviour of aluminium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011, 47, 102-107.	1.1	12
77	Investigation of adsorption and corrosion inhibition effect of 1,1â€™-thiocarbonyldiimidazole on mild steel in hydrochloric acid solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011, 47, 264-271.	1.1	14
78	Electrocatalytic oxidation of methanol on Pt/NiZn electrode in alkaline medium. <i>Russian Journal of Electrochemistry</i> , 2011, 47, 811-818.	0.9	20
79	Enhancement of hydrogen evolution at cobaltâ€zinc deposited graphite electrode in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7391-7397.	7.1	58
80	Corrosion behaviour of polyrhodanine coated copper electrode in 0.1M H ₂ SO ₄ solution. <i>Materials Chemistry and Physics</i> , 2010, 121, 354-358.	4.0	32
81	Preparation, characterization and application of alkaline leached CuNiZn ternary coatings for long-term electrolysis in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10045-10049.	7.1	57
82	Electrochemical synthesis and characterization of poly-2-aminothiazole. <i>Progress in Organic Coatings</i> , 2009, 64, 81-88.	3.9	46
83	Copper modified poly-6-amino-m-cresol (poly-AmC/Cu) coating for mild steel protection. <i>Surface and Coatings Technology</i> , 2009, 203, 1469-1473.	4.8	17
84	The stability of hydrogen evolution activity and corrosion behavior of NiCu coatings with long-term electrolysis in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2089-2094.	7.1	119
85	The stability of NiCoZn electrocatalyst for hydrogen evolution activity in alkaline solution during long-term electrolysis. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7910-7918.	7.1	74
86	Electrochemical deposition and characterization of NiFe coatings as electrocatalytic materials for alkaline water electrolysis. <i>Electrochimica Acta</i> , 2009, 54, 3726-3734.	5.2	191
87	Investigation of adsorption and inhibitive effect of 2-mercaptothiazoline on corrosion of mild steel in hydrochloric acid media. <i>Electrochimica Acta</i> , 2008, 53, 5941-5952.	5.2	727
88	Electrochemical deposition and characterization of NiCu coatings as cathode materials for hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2008, 10, 1909-1911.	4.7	137
89	Adsorption properties of barbiturates as green corrosion inhibitors on mild steel in phosphoric acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 325, 57-63.	4.7	135
90	Adsorption and corrosion inhibitive properties of 2-amino-5-mercapto-1,3,4-thiadiazole on mild steel in hydrochloric acid media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 312, 7-17.	4.7	333

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91	Adsorption and Corrosion Inhibition Effect of 1,1â¬2-Thiocarbonyldiimidazole on Mild Steel in H2SO4 Solution and Synergistic Effect of Iodide Ion. <i>Acta Physico-chimica Sinica</i> , 2008, 24, 1185-1191.	0.6	78
92	Citric acid as natural corrosion inhibitor for aluminium protection. <i>Corrosion Engineering Science and Technology</i> , 2008, 43, 186-191.	1.4	36
93	Hydrogen evolution and corrosion performance of NiZn coatings. <i>Energy Conversion and Management</i> , 2007, 48, 583-591.	9.2	75
94	The Rhodanine inhibition effect on the corrosion of a mild steel in acid along the exposure time. <i>Protection of Metals</i> , 2007, 43, 476-482.	0.2	40
95	Electrochemical synthesis and characterization of a new conducting polymer: Polyrhodanine. <i>Applied Surface Science</i> , 2007, 253, 3402-3407.	6.1	61
96	Electrochemical Investigation of Barbiturates as Green Corrosion Inhibitors for Mild Steel Protection. <i>Corrosion Reviews</i> , 2006, 24, .	2.0	46
97	The corrosion performance of polyaniline on nickel plated mild steel. <i>Applied Surface Science</i> , 2005, 242, 97-106.	6.1	68
98	The Inhibition Effect of 2-Thiobarbituric Acid on the Corrosion Performance of Mild Steel in HCl Solutions. <i>Materials Science</i> , 2005, 41, 337-343.	0.9	49
99	Inhibition Effect of Rhodanine for Corrosion of Mild Steel in Hydrochloric Acid Solution. <i>Protection of Metals</i> , 2005, 41, 581-585.	0.2	83
100	Polypyrrole and polyaniline top coats on nickel coated mild steel. <i>Progress in Organic Coatings</i> , 2004, 51, 27-35.	3.9	28
101	Effect of some primary alcohols on hydrogen yield on platinum cathode in chloride solution. <i>International Journal of Hydrogen Energy</i> , 2003, 28, 1213-1218.	7.1	11
102	Investigation of suitable cathodes for the production of hydrogen gas by electrolysis. <i>International Journal of Hydrogen Energy</i> , 1995, 20, 957-965.	7.1	50
103	ZIF-Derived CuPt@Ag as Catalyst for Hydrogen Evolution Reaction. <i>Journal of Basic & Applied Sciences</i> , 0, 17, 153-161.	0.8	0