Husnu Gerengi

List of Publications by Year
in descending order

65 papers	2,191 citations	257429 24 h-index	233409 45 g-index
67 all docs	67 docs citations	67 times ranked	1493 citing authors

#	Article	IF	Citations
1	Assessment of the corrosion behaviour of untreated and chemically treated pure magnesium in simulated body fluid. Journal of Adhesion Science and Technology, 2023, 37, 1789-1805.	2.6	1
2	Corrosion inhibition of reinforcement steel in mixture water by caffeine and L-arginine. Journal of Adhesion Science and Technology, 2022, 36, 134-167.	2.6	8
3	Understanding the Corrosion Behavior of the AZ91D Alloy in Simulated Body Fluid through the Use of Dynamic EIS. ACS Omega, 2022, 7, 11929-11938.	3.5	7
4	Corrosion characteristics of plasma spray, arc spray, high velocity oxygen fuel, and diamond jet coated 30MnB5 boron alloyed steel in 3.5Âwt.% NaCl solution. Corrosion Reviews, 2022, 40, 51-63.	2.0	7
5	Inhibition effect ofCynara cardunculusleaf extract on corrosion of St37 steel immersed in seawater with and without bleach solution. Chemical Engineering Communications, 2021, 208, 1260-1278.	2.6	5
6	Corrosion inhibition performance of dwarf palm andCynara cardunculusleaves extract for St37 steel in 15% H₂SO₄: a comparative study. Journal of Adhesion Science and Technology, 2021, 35, 691-722.	2.6	25
7	Nanocatalysts for hydrogen evolution reactions from hydrazine borane. , 2021, , 197-218.		0
8	Sodium nitrite as a corrosion inhibitor of copper in simulated cooling water. Scientific Reports, 2021, 11, 8353.	3.3	17
9	Shallow cryogenic treatment: effect on the corrosion resistance and hardness properties of AA5083-H111 alloy in chloride-ions enriched medium. Materials Research Express, 2021, 8, 076516.	1.6	2
10	A newly synthesized ionic liquid as an effective corrosion inhibitor for carbon steel in HCl medium: A combined experimental and computational studies. Materials Today Communications, 2021, 29, 102905.	1.9	9
11	Corrosion behavior of dual phase 600 and 800 steels in 3.5â€‰wt.% NaCl environment. Journal of Adhesion Science and Technology, 2020, 34, 903-915.	2.6	14
12	The potency of zeolite and diatomite on the corrosive destruction of reinforcing steel in 1â€¯M HNO3 environment. Construction and Building Materials, 2020, 236, 117572.	7.2	13
13	Corrosion Protection of Aluminum Alloy AA7020 in NaCl Solution by Hybrid Solâ€“Gel Coatings. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 405-413.	1.1	2
14	Synthesis and anticorrosion studies of 4-[(2-nitroacetophenonylidene)-amino]-antipyrine on SAE 1012 carbon steel in 15â€‰wt.% HCl solution. Journal of Adhesion Science and Technology, 2020, 34, 2448-2466.	2.6	15
15	The effect of caffeine molecule on the physico-chemical properties of blended cement. Construction and Building Materials, 2020, 255, 119394.	7.2	7
16	Investigation of â€œPropolisâ€•as a Green Inhibitor of SAE 1010 Carbon Steel Corrosion in 3.5% NaCl Environment. Industrial & Engineering Chemistry Research, 2020, 59, 9328-9339.	3.7	9
17	New Method of Non-Linear Electrochemical Impedance Spectroscopy with an Amplitude-Modulated Perturbation Signal. Journal of the Electrochemical Society, 2019, 166, C559-C563.	2.9	5
18	Corrosion response of ultra-high strength steels used for automotive applications. Materials Research Express, 2019, 6, 0865a6.	1.6	30

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19	Understanding the origin of high corrosion inhibition efficiency of bee products towards aluminium alloys in alkaline environments. Electrochimica Acta, 2019, 304, 263-274.	5.2	57
20	THE EFFECT OF CRYOGENIC TREATMENTS ON PITTING CORROSION SUSCEPTIBILITY OF AA5083-H111 IN 3.5% NaCl ENVIRONMENT. Proceedings on Engineering Sciences, 2019, 1, 70-76.	0.4	0
21	Influence of 1-butyl-1-methylpiperidinium tetrafluoroborate on St37 steel dissolution behavior in HCl environment. Chemical Engineering Communications, 2018, 205, 538-548.	2.6	23
22	Improved Performance of 1-Ethyl-3-Methylimidazolium Tetrafluoroborate at Steel/HCl Interface by Iodide Ions. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	2.6	5
23	Electrochemical and morphological assessments of inhibition level of 8-hydroxylquinoline for AA2024-T4 alloy in 3.5% NaCl solution. Journal of Adhesion Science and Technology, 2018, 32, 207-223.	2.6	10
24	Gum Arabic-silver nanoparticles composite as a green anticorrosive formulation for steel corrosion in strong acid media. Carbohydrate Polymers, 2018, 181, 43-55.	10.2	100
25	An evaluation of the anticorrosion effect of ethylene glycol for AA7075-T6 alloy in 3.5% NaCl solution. Measurement: Journal of the International Measurement Confederation, 2018, 116, 264-272.	5.0	19
26	The Effect of FlamestabÂ® NOR 116 on EPDM-based Automotive Sealing Profiles. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2018, 21, 209-223.	1.1	1
27	Exploration of Dextran for Application as Corrosion Inhibitor for Steel in Strong Acid Environment: Effect of Molecular Weight, Modification, and Temperature on Efficiency. ACS Applied Materials & Interfaces, 2018, 10, 28112-28129.	8.0	134
28	Evaluation of the corrosion inhibiting efficacy of a newly synthesized nitrone against St37 steel corrosion in acidic medium: Experimental and theoretical approaches. Materials Science and Engineering C, 2018, 93, 539-553.	7.3	38
29	The Use of Dynamic Electrochemical Impedance Spectroscopy in Corrosion Inhibitor Studies. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 536-540.	1.1	17
30	The effect of Tinuvin derivatives as an ultraviolet (UV) stabilizer on EPDM rubber. Periodicals of Engineering and Natural Sciences, 2018, 6, 52.	0.5	4
31	Carboxymethyl Cellulose/Silver Nanoparticles Composite: Synthesis, Characterization and Application as a Benign Corrosion Inhibitor for St37 Steel in 15% H₂SO₄Medium. ACS Applied Materials & Interfaces, 2017, 9, 6376-6389.	8.0	213
32	Synergistic inhibition of St37 steel corrosion in 15% H2SO4 solution by chitosan and iodide ion additives. Cellulose, 2017, 24, 931-950.	4.9	65
33	Enhanced corrosion inhibition effect of chitosan for St37 in 15% H2SO4 environment by silver nanoparticles. International Journal of Biological Macromolecules, 2017, 104, 638-649.	7.5	83
34	Performance Evaluation of a Chitosan/Silver Nanoparticles Composite on St37 Steel Corrosion in a 15% HCl Solution. ACS Sustainable Chemistry and Engineering, 2017, 5, 809-820.	6.7	144
35	THE EFFECT OF NIOBIUM AND VANADIUM ON CORROSION OF LOW CARBON STEEL OBTAINED BY POWDER METALLURGY IN 3.5%NaCl ENVIRONMENT. E-Journal of New World Sciences Academy, 2017, 12, 73-86.	0.2	1
36	Corrosion behavior of concrete produced with diatomite and zeolite exposed to chlorides. Computers and Concrete, 2017, 19, 161-169.	0.7	7

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37	KATYONÄ°K BOR Ä°Ã‡EREN Ä°YONÄ°K SIVILARIN KOROZYON Ä°NHÄ°BÄ°TÃ–RÃœ OLARAK KULLANILMASI Ä°LE Ä°LGÄ°LÄ° PATENT Ã‡ALIÅžMALARI. E-Journal of New World Sciences Academy, 2017, 12, 53-65.	0.2	2
38	Synergistic corrosion inhibition effect of 1-ethyl-1-methylpyrrolidinium tetrafluoroborate and iodide ions for low carbon steel in HCl solution. Journal of Adhesion Science and Technology, 2016, 30, 2383-2403.	2.6	40
39	Experimental and Quantum Chemical Evaluation of 8-Hydroxyquinoline as a Corrosion Inhibitor for Copper in 0.1 M HCl. Industrial & Engineering Chemistry Research, 2016, 55, 9614-9624.	3.7	131
40	Evaluation of the inhibitive effect of Diospyros kaki (Persimmon) leaves extract on St37 steel corrosion in acid medium. Sustainable Chemistry and Pharmacy, 2016, 4, 57-66.	3.3	52
41	A morphological and electrochemical comparison of the corrosion process of aluminum alloys under simulated acid rain conditions. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 509-516.	5.3	32
42	Investigation of corrosion behavior of 6060 and 6082 aluminum alloys under simulated acid rain conditions. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 233-240.	1.5	31
43	The Effects of Cryogenic Treatment on the Corrosion of AISI D3 Steel. Materials Research, 2015, 18, 569-574.	1.3	29
44	A comprehensive evaluation of mimosa extract as a corrosion inhibitor on AA6060 alloy in acid rain solution: part I. Electrochemical AC methods. Journal of Adhesion Science and Technology, 2015, 29, 36-48.	2.6	22
45	The effect of zeolite and diatomite on the corrosion of reinforcement steel in 1 M HCl solution. Results in Physics, 2015, 5, 148-153.	4.1	14
46	Fe@Ag nanoparticles decorated reduced graphene oxide as ultrahigh capacity anode material for lithium-ion battery. Ionics, 2015, 21, 3185-3192.	2.4	61
47	The inhibition effect of mad Honey on corrosion of 2007-type aluminium alloy in 3.5% NaCl solution. Materials Research, 2014, 17, 255-264.	1.3	27
48	Impact of Copper Chrome Boron (CCB) Wood Preservative on the Corrosion of St37 Steel. Industrial & Engineering Chemistry Research, 2014, 53, 19192-19198.	3.7	15
49	Simultaneous impedance and volumetric studies and additionally potentiodynamic polarization measurements of molasses as a carbon steel corrosion inhibitor in 1M hydrochloric acid solution. Construction and Building Materials, 2014, 52, 482-487.	7.2	26
50	Dynamic electrochemical impedance spectroscopy and polarization studies to evaluate the inhibition effect of benzotriazole on copperâ€manganeseâ€aluminium alloy in artificial seawater. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 1024-1031.	1.5	27
51	Multi-faceted investigation of the effect of de-icer chemicals on the engineering properties of asphalt concrete. Cold Regions Science and Technology, 2013, 87, 59-67.	3.5	36
52	Electrochemical investigations on the corrosion behaviour of reinforcing steel in diatomite- and zeolite-containing concrete exposed to sulphuric acid. Construction and Building Materials, 2013, 49, 471-477.	7.2	65
53	Anticorrosive Properties of Date Palm (Phoenix dactylifera L.) Fruit Juice on 7075 Type Aluminum Alloy in 3.5% NaCl Solution. Industrial & Engineering Chemistry Research, 2012, 51, 12835-12843.	3.7	53
54	Schinopsis lorentzii Extract As a Green Corrosion Inhibitor for Low Carbon Steel in 1 M HCl Solution. Industrial & Engineering Chemistry Research, 2012, 51, 780-787.	3.7	216

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55	Corrosion-inhibiting effect of Mimosa extract on brass-MM55 corrosion in 0.5 M H2SO4 acidic media. Journal of Industrial and Engineering Chemistry, 2012, 18, 2204-2210.	5.8	56
56	Adsorption and inhibition effect of benzotriazole on brass-118 and brass-MM55 in artificial seawater. Protection of Metals and Physical Chemistry of Surfaces, 2012, 48, 361-366.	1.1	6
57	Investigation effect of benzotriazole on the corrosion of brass-MM55 alloy in artificial seawater by dynamic EIS. Journal of Solid State Electrochemistry, 2010, 14, 897-902.	2.5	50
58	Evaluation of corrosion inhibition of brass-118 in artificial seawater by benzotriazole using Dynamic EIS. Corrosion Science, 2009, 51, 2573-2579.	6.6	86
59	KALIP ÅžARTLANDIRICI SERPANTÄ°NÄ°NDE OLUÅžAN KOROZYONUN Ä°NHÄ°BÄ°TÃ–R KULLANIMIYLA ENGELLENMESÄ°. DÃ¼zce Ãœniversitesi Bilim Ve Teknoloji Dergisi, 0, , 971-986.	0.7	0
60	Performans Bisiklet LastiÄŸi SÄ±rt KarÄ±ÅŸÄ±mÄ±nÄ±n GeliÅŸtirilmesi ve Ã–zelliklerinin Ä°ncelenmesi. DÃ¼zce Ãœniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.7	1
61	Assessment of the Corrosion Behaviour of Unmodified and Chemically Modified Pure Magnesium in Simulated Body Fluid. SSRN Electronic Journal, 0, , .	0.4	1
62	Elektro Galvaniz Ä°ÅŸleminin St37 Ankraj ElemanÄ±nÄ±n Korozyon MekanizmasÄ±na Etkisinin AraÅŸtÄ±rÄ±lmasÄ±. DÃ¼zce Ãœniversitesi Bilim Ve Teknoloji Dergisi, 0, , 367-378.	0.7	0
63	Experimental Methods of Corrosion Inhibition Assessment. ACS Symposium Series, 0, , 49-60.	0.5	1
64	Electrochemical Evaluation of Sustainable Corrosion Inhibitors via Dynamic Electrochemical Impedance Spectroscopy. ACS Symposium Series, 0, , 61-85.	0.5	5
65	Functionalization of Nanomaterials: Synthesis and Characterization. ACS Symposium Series, 0, , 1-26.	0.5	4