List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Application of corrosion inhibitors for steels in acidic media for the oil and gas industry: A review. Corrosion Science, 2014, 86, 17-41.	3.0	979
2	Inhibition of copper corrosion by 1,2,3-benzotriazole: A review. Corrosion Science, 2010, 52, 2737-2749.	3.0	539
3	What Determines the Inhibition Effectiveness of ATA, BTAH, and BTAOH Corrosion Inhibitors on Copper?. Journal of the American Chemical Society, 2010, 132, 16657-16668.	6.6	278
4	A comparative electrochemical and quantum chemical calculation study of BTAH and BTAOH as copper corrosion inhibitors in near neutral chloride solution. Electrochimica Acta, 2008, 53, 8287-8297.	2.6	197
5	Organic corrosion inhibitors for aluminum and its alloys in chloride and alkaline solutions: A review. Arabian Journal of Chemistry, 2019, 12, 4646-4663.	2.3	197
6	An electrochemical, long-term immersion, and XPS study of 2-mercaptobenzothiazole as a copper corrosion inhibitor in chloride solution. Corrosion Science, 2014, 83, 164-175.	3.0	185
7	2-Mercaptobenzimidazole as a copper corrosion inhibitor: Part I. Long-term immersion, 3D-profilometry, and electrochemistry. Corrosion Science, 2013, 72, 82-89.	3.0	149
8	2-Mercaptobenzimidazole as a copper corrosion inhibitor: Part II. Surface analysis using X-ray photoelectron spectroscopy. Corrosion Science, 2013, 72, 90-98.	3.0	139
9	Green corrosion inhibitors for aluminium and its alloys: a review. RSC Advances, 2017, 7, 27299-27330.	1.7	134
10	Electrochemical and XPS study of polyethyleneimines of different molecular sizes as corrosion inhibitors for AISI 430 stainless steel in near-neutral chloride media. Materials Chemistry and Physics, 2009, 116, 198-206.	2.0	116
11	Polyethyleneimine as a corrosion inhibitor for ASTM 420 stainless steel in near-neutral saline media. Corrosion Science, 2009, 51, 525-533.	3.0	116
12	EQCM and XPS analysis of 1,2,4-triazole and 3-amino-1,2,4-triazole as copper corrosion inhibitors in chloride solution. Corrosion Science, 2013, 77, 350-359.	3.0	111
13	2-Mercaptobenzoxazole as a copper corrosion inhibitor in chloride solution: Electrochemistry, 3D-profilometry, and XPS surface analysis. Corrosion Science, 2014, 80, 82-95.	3.0	107
14	Organic corrosion inhibitors for aluminium and its alloys in acid solutions: a review. RSC Advances, 2016, 6, 62833-62857.	1.7	107
15	Recent progressive use of atomic force microscopy in biomedical applications. TrAC - Trends in Analytical Chemistry, 2016, 80, 96-111.	5.8	100
16	Corrosion behaviour of stainless steels in aqueous solutions of methanesulfonic acid. Corrosion Science, 2010, 52, 2430-2438.	3.0	77
17	The corrosion inhibition of certain azoles on steel in chloride media: Electrochemistry and surface analysis. Corrosion Science, 2016, 111, 370-381.	3.0	74
18	Mechanically strong, flexible and thermally stable graphene oxide/nanocellulosic films with enhanced dielectric properties. RSC Advances, 2016, 6, 49138-49149.	1.7	58

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19	Novel chitosan/diclofenac coatings on medical grade stainless steel for hip replacement applications. Scientific Reports, 2016, 6, 26653.	1.6	56
20	A review of techniques for the application of bioactive coatings on metal-based implants to achieve controlled release of active ingredients. Materials and Design, 2022, 217, 110653.	3.3	54
21	Triazole, Benzotriazole, and Naphthotriazole as Copper Corrosion Inhibitors: I. Molecular Electronic and Adsorption Properties. ChemPhysChem, 2011, 12, 3547-3555.	1.0	53
22	Novel ethanol-induced pectin–xanthan aerogel coatings for orthopedic applications. Carbohydrate Polymers, 2017, 166, 365-376.	5.1	50
23	Corrosion study of copper in the presence of benzotriazole and its hydroxy derivative. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 956-966.	0.8	49
24	Electrochemical, 3D topography, XPS, and ToF-SIMS analyses of 4-methyl-2-phenylimidazole as a corrosion inhibitor for brass. Corrosion Science, 2020, 169, 108632.	3.0	45
25	Cellulose nanofibrils-reduced graphene oxide xerogels and cryogels for dielectric and electric and electrochemical storage applications. Polymer, 2018, 147, 260-270.	1.8	44
26	Galvanic series of different stainless steels and copper- and aluminium-based materials in acid solutions. Corrosion Science, 2013, 68, 51-56.	3.0	40
27	A detailed electrochemical impedance spectroscopy study of a bismuth-film glassy carbon electrode for trace metal analysis. Analytica Chimica Acta, 2018, 1004, 10-21.	2.6	40
28	Determination of the Cu[sub 2]O Thickness on BTAH-Inhibited Copper by Reconstruction of Auger Electron Spectra. Journal of the Electrochemical Society, 2010, 157, C295.	1.3	36
29	UV-Induced reduction of graphene oxide in cellulose nanofibril composites. New Journal of Chemistry, 2019, 43, 681-688.	1.4	35
30	Carboxymethyl cellulose/diclofenac bioactive coatings on AISI 316LVM for controlled drug delivery, and improved osteogenic potential. Carbohydrate Polymers, 2020, 230, 115612.	5.1	30
31	Bismuth-tin-film electrodes for Zn(II), Cd(II), and Pb(II) trace analysis. Microchemical Journal, 2019, 145, 676-685.	2.3	29
32	A combination of interdisciplinary analytical tools for evaluation of multi-layered coatings on medical grade stainless steel for biomedical applications. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 128, 230-246.	2.0	28
33	Polysaccharide Thin Solid Films for Analgesic Drug Delivery and Growth of Human Skin Cells. Frontiers in Chemistry, 2019, 7, 217.	1.8	28
34	Clindamycin-Based 3D-Printed and Electrospun Coatings for Treatment of Implant-Related Infections. Materials, 2021, 14, 1464.	1.3	27
35	X-ray excited Auger Cu L3L4,5M4,5 spectra measured at low take-off angles as a fingerprint for a Cuâ€organics connection. Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 10-14.	0.8	25
36	The first electrochemical and surface analysis of 2-aminobenzimidazole as a corrosion inhibitor for copper in chloride solution. New Journal of Chemistry, 2017, 41, 7151-7161.	1.4	23

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37	Efficient Copper Removal from an Aqueous Anvironment using a Novel and Hybrid Nanoadsorbent Based on Derived-Polyethyleneimine Linked to Silica Magnetic Nanocomposites. Nanomaterials, 2019, 9, 209.	1.9	21
38	A Review of Recent Advances in the Inhibition of Sweet Corrosion. Chemical Record, 2021, 21, 1845-1875.	2.9	21
39	A Flexible, Disposable Hydrogen Peroxide Sensor on Graphene Nanoplatelet-Coated Cellulose. Current Analytical Chemistry, 2017, 13, .	0.6	21
40	Corrosion inhibition and surface analysis of amines on mild steel in chloride medium. Chemical Papers, 2017, 71, 81-89.	1.0	19
41	The Corrosion Inhibition of AA6082 Aluminium Alloy by Certain Azoles in Chloride Solution: Electrochemistry and Surface Analysis. Coatings, 2019, 9, 380.	1.2	19
42	Copper-bismuth-film in situ electrodes for heavy metal detection. Microchemical Journal, 2020, 154, 104635.	2.3	19
43	Effect of surface powder particles and morphologies on corrosion of Ti-6Al-4ÂV fabricated with different energy densities in selective laser melting. Materials and Design, 2021, 211, 110184.	3.3	18
44	Copper-film electrodes for Pb(II) trace analysis and a detailed electrochemical impedance spectroscopy study. Microchemical Journal, 2019, 147, 863-871.	2.3	17
45	Surface analysis of the 2-mercaptobenzothiazole corrosion inhibitor on 6082 aluminum alloy using ToF-SIMS and XPS. Analytical Methods, 2020, 12, 456-465.	1.3	17
46	The Role of Growth Factors in Bioactive Coatings. Pharmaceutics, 2021, 13, 1083.	2.0	15
47	Analytical Techniques for the Characterization of Bioactive Coatings for Orthopaedic Implants. Biomedicines, 2021, 9, 1936.	1.4	15
48	The first X-ray photoelectron spectroscopy surface analysis of 4-methyl-2-phenyl-imidazole adsorbed on copper. Analytical Methods, 2015, 7, 6496-6503.	1.3	14
49	Surface analysis of 2-mercapto-1-methylimidazole adsorbed on copper by X-ray photoelectron spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 290-297.	2.0	13
50	Characterization of chitosan-lysine surfactant bioactive coating on silicone substrate. Carbohydrate Polymers, 2020, 232, 115817.	5.1	13
51	Evaluation of Au/ZrO2 Catalysts Prepared via Postsynthesis Methods in CO2 Hydrogenation to Methanol. Catalysts, 2022, 12, 218.	1.6	13
52	An Improved Reversed-Phase High-Performance Liquid Chromatography Method for the Analysis of Related Substances of Prednisolone in Active Ingredient. ACS Omega, 2020, 5, 7987-8000.	1.6	12
53	Surface analysis by gas cluster ion beam XPS and ToF-SIMS tandem MS of 2-mercaptobenzoxazole corrosion inhibitor for brass. Corrosion Science, 2021, 182, 109269.	3.0	12
54	Cyclic Voltammetry as an Electroanalytical Tool for Analysing the Reaction Mechanisms of Copper in Chloride Solution Containing Different Azole Compounds. Current Analytical Chemistry, 2020, 16, 465-474.	0.6	12

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55	Addressing the Needs of the Rapidly Aging Society through the Development of Multifunctional Bioactive Coatings for Orthopedic Applications. International Journal of Molecular Sciences, 2022, 23, 2786.	1.8	12
56	Recent Progress in Non-Enzymatic Electroanalytical Detection of Pesticides Based on the Use of Functional Nanomaterials as Electrode Modifiers. Biosensors, 2022, 12, 263.	2.3	12
5 7	Reusability of SPE and Sb-modified SPE Sensors for Trace Pb(II) Determination. Sensors, 2018, 18, 3976.	2.1	11
58	Analysis of the Thermal Stability of Very Thin Surface Layers of Corrosion Inhibitors by Time-of-Flight Secondary Ion Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 2305-2316.	1.2	11
59	Degradation behaviour of Mg-4Ag and Mg-5Gd alloys under in-vitro conditions and different time-frames. Journal of Alloys and Compounds, 2019, 774, 980-987.	2.8	11
60	Dexamethasone-Loaded Bioactive Coatings on Medical Grade Stainless Steel Promote Osteointegration. Pharmaceutics, 2021, 13, 568.	2.0	11
61	Artificial Biomimetic Electrochemical Assemblies. Biosensors, 2022, 12, 44.	2.3	11
62	The development and characterization of bioactive coatings for local drug delivery in orthopedic applications. Progress in Organic Coatings, 2021, 158, 106350.	1.9	9
63	Time-of-flight secondary ion mass spectrometry analysis of chitosan-treated viscose fibres. Analytical Biochemistry, 2018, 557, 131-141.	1.1	8
64	Advanced surface analysis using GCIB-C60++-tandem-ToF-SIMS and GCIB-XPS of 2-mercaptobenzimidazole corrosion inhibitor on brass. Microchemical Journal, 2020, 159, 105495.	2.3	8
65	The corrosion resistance of 2205 duplex steel in nonâ€inhibited methanesulphonic acid at elevated temperature. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1299-1304.	0.8	7
66	Indicator Layers Based on Ethylene-Vinyl Acetate Copolymer (EVA) and Dicyanovinyl Azobenzene Dyes for Fast and Selective Evaluation of Vaporous Biogenic Amines. Sensors, 2018, 18, 4361.	2.1	7
67	Electrochemical and Surface Analysis of 2-Phenylimidazole Adsorbed on Copper from Chloride Solution. Coatings, 2018, 8, 234.	1.2	7
68	An Advanced Statistical Approach Using Weighted Linear Regression in Electroanalytical Method Development for Epinephrine, Uric Acid and Ascorbic Acid Determination. Sensors, 2020, 20, 7056.	2.1	7
69	Single-Drop Analysis of Epinephrine and Uric Acid on a Screen-Printed Carbon Electrode. Biosensors, 2021, 11, 285.	2.3	7
70	Bioactive coatings with anti-osteoclast therapeutic agents for bone implants: Enhanced compliance and prolonged implant life. Pharmacological Research, 2022, 176, 106060.	3.1	7
71	A Comparison of Hydrochloric Acid and Acetate Buffer Media for Trace Metal Analysis Using Sb-Film Electrodes: A Detailed Electrochemical Impedance Spectroscopy Study. Journal of the Electrochemical Society, 2019, 166, H108-H118.	1.3	6
72	2-Phenylimidazole Corrosion Inhibitor on Copper: An XPS and ToF-SIMS Surface Analytical Study. Coatings, 2021, 11, 966.	1.2	6

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73	Indolizine quaternary ammonium salt inhibitors: The inhibition and anti-corrosion mechanism of new dimer derivatives from ethyl acetate quinolinium bromide and n-butyl quinolinium bromide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129649.	2.3	6
74	Electrochemical Study of AISI C1018 Steel in Methanesulfonic Acid Containing an Acetylenic Alcohol–Based Corrosion Inhibitor Formulation. Journal of the Association for Laboratory Automation, 2016, 21, 632-641.	2.8	5
75	Novel <i>inâ€situ</i> Biâ^'Sbâ€Film Electrodes for Trace Heavy Metal Analysis. Electroanalysis, 2018, 30, 2781-2792.	1.5	5
76	HPLC–MS/MS method optimisation for matrix metalloproteinase 3 and matrix metalloproteinase 9 determination in human blood serum using target analysis. Journal of Pharmaceutical and Biomedical Analysis, 2018, 150, 137-143.	1.4	4
77	The Effect of Polyphenolics in Extracts from Natural Materials on Metabolic Activity of Metastatic Melanoma WM-266-4 Cells. Applied Sciences (Switzerland), 2020, 10, 3499.	1.3	4
78	Pb(II) Determination in a Single Drop Using a Modified Screen-Printed Electrode. Chemosensors, 2021, 9, 38.	1.8	4
79	The influence of the amino group in 3â€aminoâ€1,2,4â€triazole corrosion inhibitor on the interface properties for brass studied by ToFâ€SIMS. Rapid Communications in Mass Spectrometry, 2021, 35, e9056.	0.7	4
80	Analysis of the Enameled AISI 316LVM Stainless Steel. Journal of Materials Engineering and Performance, 2018, 27, 1122-1129.	1.2	3
81	The Use of Factorial Design and Simplex Optimization to Improve Analytical Performance of In Situ Film Electrodes. Sensors, 2020, 20, 3921.	2.1	3
82	Progressive use of multispectral imaging flow cytometry in various research areas. Analyst, The, 2021, 146, 4985-5007.	1.7	3
83	The Interface Characterization of 2-Mercapto-1-methylimidazole Corrosion Inhibitor on Brass. Coatings, 2021, 11, 295.	1.2	3
84	Evaluation of Natural Extracts as Promising Components of Bioactive Coatings for Orthopedic Implants. Frontiers in Materials, 2022, 9, .	1.2	3
85	Defective Grey TiO2 with Minuscule Anatase–Rutile Heterophase Junctions for Hydroxyl Radicals Formation in a Visible Light-Triggered Photocatalysis. Catalysts, 2021, 11, 1500.	1.6	3
86	Trace Arsenic Determination in a TiO2 Pigment Matrix Using Electrothermal Atomic Absorption Spectrometry. SLAS Technology, 2020, 25, 123-131.	1.0	2
87	Surface analysis and interface properties of 2-aminobenzimidazole corrosion inhibitor for brass in chloride solution. Analytical and Bioanalytical Chemistry, 2020, 412, 8431-8442.	1.9	2
88	Dimer Indolizine Derivatives of Quaternary Salt Corrosion Inhibitors: Enlightened High-Effective Choice for Corrosion Prevention of Steel in Acidizing. SPE Production and Operations, 2021, 36, 34-42.	0.4	1
89	A Magnetic Nanocomposite Modifier for Improved Ultrasensitive Detection of Hexavalent Chromium in Water Samples. Chemosensors, 2021, 9, 189.	1.8	1
90	Timeâ€ofâ€flight secondary ion mass spectrometry and Xâ€ray photoelectron spectroscopy study of 2â€phenylimidazole on brass. Rapid Communications in Mass Spectrometry, 2021, 35, e8974.	0.7	1

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91	Novel High-Effective Component for Acidizing Corrosion Inhibitors: Indolizine Derivatives of the Quaternary Quinolinium Salts. , 2020, , .		1
92	The Effect of Preconditioning Strategies on the Adsorption of Model Proteins onto Screen-Printed Carbon Electrodes. Sensors, 2022, 22, 4186.	2.1	1
93	xmins:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.svg"> < mml:mrow> < mml:msub> < mml:mtext> Cu < /mml:mtext> < mml:mn> 2 < /mml:mn> < /mml:msub> mathvariant="normal"> O < /mml:mi> < /mml:mrow> < /mml:math>/ < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	<mml:mi 1.5</mml:mi 	1
94	Development and analysis of frits for enamelling AA2024, AA6082Âand AA7075 aluminium alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 660-671.	0.8	0