

# Ingrid Milošević

## List of Publications by Year in descending order

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141  
papers

7,547  
citations

66234

42  
h-index

58464

82  
g-index

142  
all docs

142  
docs citations

142  
times ranked

6034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of copper corrosion by 1,2,3-benzotriazole: A review. <i>Corrosion Science</i> , 2010, 52, 2737-2749.	3.0	539
2	Titanium nanostructures for biomedical applications. <i>Nanotechnology</i> , 2015, 26, 062002.	1.3	379
3	Passive film on orthopaedic TiAlV alloy formed in physiological solution investigated by X-ray photoelectron spectroscopy. <i>Biomaterials</i> , 2000, 21, 2103-2113.	5.7	311
4	Comparison of TiN, ZrN and CrN hard nitride coatings: Electrochemical and thermal oxidation. <i>Thin Solid Films</i> , 1997, 303, 246-254.	0.8	293
5	What Determines the Inhibition Effectiveness of ATA, BTAH, and BTAOH Corrosion Inhibitors on Copper?. <i>Journal of the American Chemical Society</i> , 2010, 132, 16657-16668.	6.6	278
6	Special modes of corrosion under physiological and simulated physiological conditions. <i>Acta Biomaterialia</i> , 2008, 4, 468-476.	4.1	267
7	The composition of the surface passive film formed on CoCrMo alloy in simulated physiological solution. <i>Electrochimica Acta</i> , 2003, 48, 2767-2774.	2.6	225
8	XPS and EIS study of the passive film formed on orthopaedic Ti-6Al-7Nb alloy in Hank's physiological solution. <i>Electrochimica Acta</i> , 2008, 53, 3547-3558.	2.6	210
9	A comparative electrochemical and quantum chemical calculation study of BTAH and BTAOH as copper corrosion inhibitors in near neutral chloride solution. <i>Electrochimica Acta</i> , 2008, 53, 8287-8297.	2.6	197
10	Impedance and XPS study of benzotriazole films formed on copper, copper-zinc alloys and zinc in chloride solution. <i>Corrosion Science</i> , 2008, 50, 1987-1997.	3.0	183
11	Benzotriazole as an inhibitor of brass corrosion in chloride solution. <i>Applied Surface Science</i> , 2007, 253, 8863-8873.	3.1	176
12	Density functional study of the corrosion inhibition properties of 1,2,4-triazole and its amino derivatives. <i>Chemical Physics Letters</i> , 2009, 483, 198-203.	1.2	167
13	Survivorship and Retrieval Analysis of Sikomet Metal-on-Metal Total Hip Replacements at a Mean of Seven Years. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 1173-1182.	1.4	155
14	Review Conversion Coatings Based on Zirconium and/or Titanium. <i>Journal of the Electrochemical Society</i> , 2018, 165, C127-C144.	1.3	124
15	Electrochemical and XPS study of polyethyleneimines of different molecular sizes as corrosion inhibitors for AISI 430 stainless steel in near-neutral chloride media. <i>Materials Chemistry and Physics</i> , 2009, 116, 198-206.	2.0	116
16	Polyethyleneimine as a corrosion inhibitor for ASTM 420 stainless steel in near-neutral saline media. <i>Corrosion Science</i> , 2009, 51, 525-533.	3.0	116
17	Synergistic effect of 2-mercaptobenzimidazole and octylphosphonic acid as corrosion inhibitors for copper and aluminium - An electrochemical, XPS, FTIR and DFT study. <i>Corrosion Science</i> , 2021, 182, 109082.	3.0	115
18	The behaviour of Cu-xNi (x = 10 to 40 wt%) alloys in alkaline solutions containing chloride ions. <i>Electrochimica Acta</i> , 1997, 42, 1537-1548.	2.6	111

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19	The roles of mercapto, benzene, and methyl groups in the corrosion inhibition of imidazoles on copper: II. Inhibitorâ€“copper bonding. <i>Corrosion Science</i> , 2015, 98, 457-470.	3.0	109
20	Electrochemical properties, chemical composition and thickness of passive film formed on novel Tiâ€“20Nbâ€“10Zrâ€“5Ta alloy. <i>Electrochimica Acta</i> , 2013, 99, 176-189.	2.6	101
21	The influence of complexing agent and proteins on the corrosion of stainless steels and their metal components. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 69-77.	1.7	100
22	The behavior of stainless steels in physiological solution containing complexing agent studied by X-ray photoelectron spectroscopy. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 404-412.	3.0	99
23	The roles of mercapto, benzene and methyl groups in the corrosion inhibition of imidazoles on copper: I. Experimental characterization. <i>Corrosion Science</i> , 2015, 98, 107-118.	3.0	90
24	Simplistic correlations between molecular electronic properties and inhibition efficiencies: Do they really exist?. <i>Corrosion Science</i> , 2021, 179, 108856.	3.0	86
25	Comparison of Ten-Year Survivorship of Hip Prostheses with Use of Conventional Polyethylene, Metal-on-Metal, or Ceramic-on-Ceramic Bearings. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 1756-1763.	1.4	79
26	Corrosion behaviour of stainless steels in aqueous solutions of methanesulfonic acid. <i>Corrosion Science</i> , 2010, 52, 2430-2438.	3.0	77
27	Corrosion Inhibition of Pure Aluminium and Alloys AA2024-T3 and AA7075-T6 by Cerium(III) and Cerium(IV) Salts. <i>Journal of the Electrochemical Society</i> , 2016, 163, C85-C93.	1.3	77
28	Serum levels of cobalt and chromium in patients with Sikomet metalâ€“metal total hip replacements. <i>Journal of Orthopaedic Research</i> , 2005, 23, 526-535.	1.2	75
29	Protection of copper against corrosion in simulated urban rain by the combined action of benzotriazole, 2-mercaptobenzimidazole and stearic acid. <i>Corrosion Science</i> , 2015, 98, 180-191.	3.0	74
30	How relevant is the adsorption bonding of imidazoles and triazoles for their corrosion inhibition of copper?. <i>Corrosion Science</i> , 2017, 124, 25-34.	3.0	64
31	Effects of mechanical and chemical pre-treatments on the morphology and composition of surfaces of aluminium alloys 7075-T6 and 2024-T3. <i>Corrosion Science</i> , 2017, 119, 46-59.	3.0	63
32	Corrosion protection of aluminium pretreated by vinyltriethoxysilane in sodium chloride solution. <i>Corrosion Science</i> , 2010, 52, 1060-1069.	3.0	62
33	A hybrid organicâ€“inorganic solâ€“gel coating for protecting aluminium alloy 7075-T6 against corrosion in Harrisonâ€™s solution. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 90-103.	1.1	60
34	Corrosion protection of carbon steel by silica-based hybrid coatings containing cerium salts: Effect of silica nanoparticle content. <i>Surface and Coatings Technology</i> , 2015, 265, 106-116.	2.2	60
35	The corrosion resistance of Nitinol alloy in simulated physiological solutions. <i>Materials Science and Engineering C</i> , 2012, 32, 1087-1096.	3.8	57
36	Corrosion of aluminium alloy AlSi7Mg0.3 in artificial sea water with added sodium sulphide. <i>Corrosion Science</i> , 2018, 144, 54-73.	3.0	55

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37	Electrochemical methods in the study of localized corrosion attack. Journal of Applied Electrochemistry, 1992, 22, 448-455.	1.5	54
38	<i>In vivo</i> production of nanosized metal wear debris formed by tribochemical reaction as confirmed by high-resolution TEM and XPS analyses. Journal of Biomedical Materials Research - Part A, 2009, 91A, 1100-1110.	2.1	53
39	Triazole, Benzotriazole, and Naphthotriazole as Copper Corrosion Inhibitors: I. Molecular Electronic and Adsorption Properties. ChemPhysChem, 2011, 12, 3547-3555.	1.0	53
40	Breakdown of Passive Film on Copper in Bicarbonate Solutions Containing Sulfate Ions. Journal of the Electrochemical Society, 1992, 139, 2409-2418.	1.3	49
41	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
42	Poor results from the isoelastic total hip replacement. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 169-176.	1.2	45
43	Hybrid sol-gel coatings based on GPTMS/TEOS containing colloidal SiO <sub>2</sub> and cerium nitrate for increasing corrosion protection of aluminium alloy 7075-T6. Journal of Sol-Gel Science and Technology, 2018, 85, 546-557.	1.1	43
44	Self-Healing Effect of Hybrid Sol-Gel Coatings Based on GPTMS, TEOS, SiO <sub>2</sub> Nanoparticles and Ce(NO <sub>3</sub> ) <sub>3</sub> Applied on Aluminum Alloy 7075-T6. Journal of the Electrochemical Society, 2018, 165, C213-C225.	1.3	42
45	Electrochemical Study of Co-Based Alloys in Simulated Physiological Solution. Journal of Applied Electrochemistry, 2004, 34, 517-524.	1.5	41
46	Hybrid sol-gel coating agents based on zirconium(IV) propoxide and epoxysilane. Journal of Sol-Gel Science and Technology, 2015, 74, 447-459.	1.1	40
47	Passive Films on 90Cu-10Ni Alloy: The Mechanism of Breakdown in Chloride Containing Solutions. Journal of the Electrochemical Society, 1991, 138, 61-67.	1.3	39
48	The effect of Cu-rich sub-layer on the increased corrosion resistance of Cu-xZn alloys in chloride containing borate buffer. Electrochimica Acta, 2006, 52, 415-426.	2.6	39
49	The effect of biomolecules on the behaviour of CoCrMo alloy in various simulated physiological solutions. Electrochimica Acta, 2012, 78, 259-273.	2.6	37
50	Electrochemical, Surface-Analytical, and Computational DFT Study of Alkaline Etched Aluminum Modified by Carboxylic Acids for Corrosion Protection and Hydrophobicity. Journal of the Electrochemical Society, 2019, 166, C3131-C3146.	1.3	37
51	The influence of additional salts on corrosion inhibition by cerium(III) acetate in the protection of AA7075-T6 in chloride solution. Corrosion Science, 2019, 149, 108-122.	3.0	37
52	Surface Analysis and Electrochemical Behavior of Aluminum Pretreated by Vinyltriethoxysilane Films in Mild NaCl Solution. Journal of the Electrochemical Society, 2012, 159, C303-C311.	1.3	36
53	Study of a sol-gel process in the preparation of hybrid coatings for corrosion protection using FTIR and <sup>1</sup> H NMR methods. Journal of Non-Crystalline Solids, 2014, 396-397, 25-35.	1.5	35
54	Metal-on-metal vs. metal-on-polyethylene total hip arthroplasty tribological evaluation of retrieved components and periprosthetic tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 34, 243-252.	1.5	35

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55	Metallic materials for biomedical applications: Laboratory and clinical studies. <i>Pure and Applied Chemistry</i> , 2010, 83, 309-324.	0.9	34
56	The formation of hydrophobic and corrosion resistant surfaces on copper and bronze by treatment in myristic acid. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1317-1323.	1.5	33
57	Corrosion behaviour and chemical stability of transparent hybrid sol-gel coatings deposited on aluminium in acidic and alkaline solutions. <i>Progress in Organic Coatings</i> , 2018, 124, 286-295.	1.9	33
58	Metal ion release and surface composition of the Cu <sup>18</sup> Ni <sup>20</sup> Zn nickel-silver during 30 days immersion in artificial sweat. <i>Applied Surface Science</i> , 2007, 254, 644-652.	3.1	32
59	The comparison of organic protective layers on bronze and copper. <i>Progress in Organic Coatings</i> , 2010, 69, 199-206.	1.9	32
60	SURVIVORSHIP AND RETRIEVAL ANALYSIS OF SIKOMET METAL-ON-METAL TOTAL HIP REPLACEMENTS AT A MEAN OF SEVEN YEARS. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 1173-1182.	1.4	32
61	Study of the synergistic effect of cerium acetate and sodium sulphate on the corrosion inhibition of AA2024-T3. <i>Electrochimica Acta</i> , 2019, 308, 337-349.	2.6	31
62	Composition, structure and morphology of hybrid acrylate-based sol-gel coatings containing Si and Zr composed for protective applications. <i>Surface and Coatings Technology</i> , 2016, 286, 388-396.	2.2	30
63	DFT study of n-alkyl carboxylic acids on oxidized aluminum surfaces: From standalone molecules to self-assembled-monolayers. <i>Applied Surface Science</i> , 2020, 525, 146156.	3.1	30
64	Hybrid sol-gel coatings applied on anodized AA2024-T3 for active corrosion protection. <i>Surface and Coatings Technology</i> , 2021, 419, 127251.	2.2	30
65	Effect of anodization on the surface characteristics and electrochemical behaviour of zirconium in artificial saliva. <i>Materials Science and Engineering C</i> , 2016, 62, 458-466.	3.8	29
66	Editors' Choice™ The Effect of Anchor Group and Alkyl Backbone Chain on Performance of Organic Compounds as Corrosion Inhibitors for Aluminum Investigated Using an Integrative Experimental-Modeling Approach. <i>Journal of the Electrochemical Society</i> , 2020, 167, 061509.	1.3	29
67	Sol-gel synthesis, characterization and properties of TiO <sub>2</sub> and Ag-TiO <sub>2</sub> coatings on titanium substrate. <i>Surface and Coatings Technology</i> , 2016, 307, 790-799.	2.2	26
68	Determination of trace cobalt concentrations in human serum by adsorptive stripping voltammetry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2003, 17, 153-158.	1.5	25
69	Study of Cu <sup>18</sup> Ni <sup>20</sup> Zn Nickel Silver and other Cu-based alloys in artificial sweat and physiological solution. <i>Electrochimica Acta</i> , 2007, 52, 6799-6810.	2.6	25
70	CoCrMo Alloy for Biomedical Applications. <i>Modern Aspects of Electrochemistry</i> , 2012, , 1-72.	0.2	25
71	Amino acids as corrosion inhibitors for copper in acidic medium: Experimental and theoretical study. <i>Journal of the Serbian Chemical Society</i> , 2013, 78, 2069-2086.	0.4	25
72	Corrosion Properties of UV Cured Hybrid Sol-Gel Coatings on AA7075-T6 Determined under Simulated Aircraft Conditions. <i>Journal of the Electrochemical Society</i> , 2014, 161, C412-C420.	1.3	25

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73	Electrochemical and Salt Spray Testing of Hybrid Coatings Based on Si and Zr Deposited on Aluminum and Its Alloys. <i>Journal of the Electrochemical Society</i> , 2015, 162, C592-C600.	1.3	25
74	Rare earth chloride and nitrate salts as individual and mixed inhibitors for aluminium alloy 7075-T6 in chloride solution. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 201-211.	0.7	25
75	Prolonged protection, by zirconium conversion coatings, of AlSi7Mg0.3 aluminium alloy in chloride solution. <i>Corrosion Science</i> , 2020, 169, 108615.	3.0	25
76	Passivity and Corrosion of Cu $\times$ Zn (x=10-40wt%) Alloys in Borate Buffer Containing Chloride Ions. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 975-984.	1.5	24
77	One-step ultrasound fabrication of corrosion resistant, self-cleaning and anti-icing coatings on aluminium. <i>Surface and Coatings Technology</i> , 2019, 369, 175-185.	2.2	24
78	The corrosion resistance of Nitinol alloy in simulated physiological solutions Part 2: The effect of surface treatment. <i>Materials Science and Engineering C</i> , 2012, 32, 1068-1077.	3.8	23
79	Effect of anodic oxidation on the corrosion behavior of Ti-based materials in simulated physiological solution. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 645-658.	1.5	23
80	Mechanistic insight on the combined effect of albumin and hydrogen peroxide on surface oxide composition and extent of metal release from Ti6Al4V. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 858-867.	1.6	23
81	Easy and Fast Fabrication of Self-Cleaning and Anti-Icing Perfluoroalkyl Silane Film on Aluminium. <i>Coatings</i> , 2020, 10, 234.	1.2	23
82	Influence of preparation methods on the properties of self-assembled films of octadecylphosphonate on Nitinol: XPS and EIS studies. <i>Materials Science and Engineering C</i> , 2012, 32, 2604-2616.	3.8	22
83	Acrylate-Based Hybrid Sol-Gel Coating for Corrosion Protection of AA7075-T6 in Aircraft Applications: The Effect of Copolymerization Time. <i>Polymers</i> , 2020, 12, 948.	2.0	22
84	The effect of various halide ions on the passivity of Cu, Zn and Cu $\times$ Zn alloys in borate buffer. <i>Corrosion Science</i> , 2007, 49, 637-653.	3.0	21
85	The Effect of the Methyl and Ethyl Group of the Acrylate Precursor in Hybrid Silane Coatings Used for Corrosion Protection of Aluminium Alloy 7075-T6. <i>Coatings</i> , 2020, 10, 172.	1.2	21
86	Contemporary Modes of Corrosion Protection and Functionalization of Materials. <i>Acta Chimica Slovenica</i> , 2019, 66, 511-533.	0.2	21
87	Effect of chloride concentration range on the corrosion resistance of Cu $\times$ Ni alloys. <i>Journal of Applied Electrochemistry</i> , 1999, 29, 393-402.	1.5	20
88	The synergistic effect of cerium acetate and sodium sulphate on corrosion inhibition of AA2024-T3 at various temperatures. <i>Electrochimica Acta</i> , 2021, 370, 137664.	2.6	20
89	pH and metal concentration of synovial fluid of osteoarthritic joints and joints with metal replacements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2507-2515.	1.6	19
90	On the importance of time-resolved electrochemical evaluation in corrosion inhibitor-screening studies. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	18

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91	Study Of Mercaptobenzimidazoles As Inhibitors For Copper Corrosion: Down to the Molecular Scale. Journal of the Electrochemical Society, 2021, 168, 051504.	1.3	18
92	Kinetics of passivity of NiTi in an acidic solution and the spectroscopic characterization of passive films. Journal of Solid State Electrochemistry, 2012, 16, 2503-2513.	1.2	17
93	Hyaluronic acid stimulates the formation of calcium phosphate on CoCrMo alloy in simulated physiological solution. Journal of Materials Science: Materials in Medicine, 2013, 24, 555-571.	1.7	17
94	Elaboration and characterization of fluorohydroxyapatite and fluoroapatite sol-gel coatings on CoCrMo alloy. Journal of Alloys and Compounds, 2016, 665, 355-364.	2.8	17
95	Electrochemical Behavior and Self-Sealing Ability of Zirconium Conversion Coating Applied on Aluminum Alloy 3005 in 0.5 M NaCl Solution. Journal of the Electrochemical Society, 2020, 167, 021509.	1.3	17
96	Siloxane polyacrylic sol-gel coatings with alkyl and perfluoroalkyl chains: Synthesis, composition, thermal properties and long-term corrosion protection. Applied Surface Science, 2022, 574, 151578.	3.1	17
97	Characterization of self-assembled layers made with stearic acid, benzotriazole, or 2-mercaptobenzimidazole on surface of copper for corrosion protection in simulated urban rain. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 30-41.	0.8	16
98	The Effect of Cerium Ions on the Structure, Porosity and Electrochemical Properties of Si/Zr-Based Hybrid Sol-Gel Coatings Deposited on Aluminum. Metals, 2018, 8, 248.	1.0	16
99	The effects of cerium ions on the curing, polymerisation and condensation of hybrid sol-gel coatings. Journal of Non-Crystalline Solids, 2019, 510, 93-100.	1.5	16
100	How relevant are molecular electronic parameters for predicting corrosion inhibition efficiency: imidazoles as corrosion inhibitors of Cu/Zr materials in NaCl solution. Corrosion Science, 2021, 193, 109900.	3.0	16
101	Risk of cancer after primary total hip replacement: The influence of bearings, cementation and the material of the stem. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 89, 234-239.	1.2	15
102	An impedance study of two types of stainless steel in Ringer physiological solution containing complexing agents. Journal of Materials Science: Materials in Medicine, 2006, 17, 911-918.	1.7	14
103	From In Vitro to Retrieval Studies of Orthopedic Implants. Corrosion, 2017, 73, 1496-1509.	0.5	14
104	Dissociation of the metal inlay from the polyethylene liner in an uncemented threaded cup. Archives of Orthopaedic and Trauma Surgery, 2005, 125, 134-141.	1.3	13
105	Quaternary Ti-20Nb-10Zr-5Ta alloy during immersion in simulated physiological solutions: formation of layers, dissolution and biocompatibility. Journal of Materials Science: Materials in Medicine, 2014, 25, 1099-1114.	1.7	13
106	A Comparative Study of Four Bearing Couples of the Same Acetabular and Femoral Component: A Mean Follow-Up of 11.5 Years. Journal of Arthroplasty, 2014, 29, 176-180.	1.5	13
107	Comparison of the Electrochemical Behaviour and Self-sealing of Zirconium Conversion Coatings Applied on Aluminium Alloys of series 1xxx to 7xxx. Journal of the Electrochemical Society, 2020, 167, 111506.	1.3	13
108	Corrosion protection of brasses and zinc in simulated urban rain. Part II. The combination of inhibitors benzotriazole and 2-mercaptobenzimidazole with stearic acid. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 92-103.	0.8	12

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109	Protection of Aluminum Alloy 3003 in Sodium Chloride and Simulated Acid Rain Solutions by Commercial Conversion Coatings Containing Zr and Cr. <i>Coatings</i> , 2019, 9, 563.	1.2	12
110	The effect of copolymerisation on the performance of acrylate-based hybrid sol-gel coating for corrosion protection of AA2024-T3. <i>Progress in Organic Coatings</i> , 2020, 147, 105701.	1.9	12
111	The influence of length of alkyl chain on the chemical structure and corrosion resistance of silica-polyacrylic hybrid coatings on structural steel. <i>Progress in Organic Coatings</i> , 2021, 150, 105982.	1.9	12
112	Corrosion resistance of crystalline and amorphous CuZr alloys in NaCl aqueous environment and effect of corrosion inhibitors. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160464.	2.8	12
113	Superhydrophobic Aluminium Surface to Enhance Corrosion Resistance and Obtain Self-Cleaning and Anti-Icing Ability. <i>Molecules</i> , 2022, 27, 1099.	1.7	12
114	An electrochemical study of the passive film formed on Ni-Cr (80/20) coating. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1994, 98, 1243-1249.	0.9	11
115	Results of Revision of Total HIP Arthroplasty for Alumina Ceramic-on-Ceramic Bearing Fracture. <i>HIP International</i> , 2016, 26, 237-243.	0.9	11
116	Conversion Coatings Based on Rare Earth Nitrates and Chlorides for Corrosion Protection of Aluminum Alloy 7075-T6. <i>Corrosion</i> , 2017, 73, 822-843.	0.5	11
117	Roles of Chloride Ions in the Formation of Corrosion Protective Films on Copper. <i>Journal of the Electrochemical Society</i> , 2021, 168, 031504.	1.3	11
118	The effect of surface preparation on the protective properties of Al <sub>2</sub> O <sub>3</sub> and HfO <sub>2</sub> thin films deposited on cp-titanium by atomic layer deposition. <i>Electrochimica Acta</i> , 2021, 366, 137431.	2.6	10
119	Ionic and Electronic Conductivity of the Anodic Films on Nickel. <i>Journal of the Electrochemical Society</i> , 2015, 162, C767-C774.	1.3	9
120	The Effects of Perfluoroalkyl and Alkyl Backbone Chains, Spacers, and Anchor Groups on the Performance of Organic Compounds as Corrosion Inhibitors for Aluminum Investigated Using an Integrative Experimental-Modeling Approach. <i>Journal of the Electrochemical Society</i> , 2021, 168, 071506.	1.3	8
121	The Effect of Surface Pretreatment of Aluminum Alloy 7075-T6 on the Subsequent Inhibition by Cerium(III) Acetate in Chloride-Containing Solution. <i>Journal of the Electrochemical Society</i> , 2022, 169, 011504.	1.3	8
122	Comparison of a ternary Cu-18Ni-20Zn alloy and binary Cu-based alloys in alkaline solutions. <i>Materials Chemistry and Physics</i> , 2007, 104, 44-49.	2.0	7
123	Metals for joint replacement. , 2008, , 115-162.		7
124	Structural Analysis, Electrochemical Behavior, and Biocompatibility of Novel Quaternary Titanium Alloy with near $\beta$ Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3130-3143.	1.1	7
125	Corrosion protection of brasses and zinc in simulated urban rain. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015, 66, 1402-1413.	0.8	7
126	Cerium chloride and acetate salts as corrosion inhibitors for aluminium alloy AA7075-T6 in sodium chloride solution. <i>Corrosion</i> , 0, , .	0.5	7



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127	Wear debris from hip prostheses characterized by electron imaging. <i>Open Medicine (Poland)</i> , 2013, 8, 476-484.	0.6	6
128	Scrutinizing the importance of surface chemistry versus surface roughness for aluminium / sol-gel film adhesion. <i>Surfaces and Interfaces</i> , 2021, 26, 101417.	1.5	6
129	Degradation of Sol-Gel Acrylic Coatings Based on Si and Zr Investigated Using Electrochemical Impedance, Infrared and X-Ray Photoelectron Spectroscopies. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	6
130	Metals for joint replacement. , 2014, , 81-151.		5
131	The Effect of Deposition Parameters on the Properties of CeCl <sub>3</sub> and LaCl <sub>3</sub> Conversion Coatings Deposited on Three Al-Based Substrates. <i>Corrosion</i> , 2020, 76, 18-38.	0.5	5
132	Corrosion resistance of cerium-conversion coatings formed from cerium(III) salts on aluminium alloy 7075-T6. <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2020, 65, 227-244.	0.1	5
133	Investigations of the Thermal Parameters of Hybrid Sol-Gel Coatings Using Nondestructive Photothermal Techniques. <i>Energies</i> , 2022, 15, 4122.	1.6	5
134	Survival rate of total hip replacements with matched and with mixed components with 10.7 years mean follow-up. <i>HIP International</i> , 2020, , 112070002097271.	0.9	4
135	Corrosion of Cu-xZn alloys in slightly alkaline chloride solutions studied by stripping voltammetry and microanalysis. <i>Annali Di Chimica</i> , 2001, 91, 343-54.	0.6	4
136	Wear and corrosion in the loosening of total joint replacements (TJR). , 2013, , 74-110.		3
137	<i>Technical Note:</i> Does Cr <sup>6+</sup> Really Exist? Difference Between Charge and Oxidation State and How to Record Them. <i>Corrosion</i> , 2021, 77, 696-699.	0.5	3
138	Al <sub>2</sub> O <sub>3</sub> and HfO <sub>2</sub> Atomic Layers Deposited in Single and Multilayer Configurations on Titanium and on Stainless Steel for Biomedical Applications. <i>Journal of the Electrochemical Society</i> , 2021, 168, 071510.	1.3	3
139	Surface Treatments of Titanium with Antibacterial Agents for Implant Applications. <i>Modern Aspects of Electrochemistry</i> , 2016, , 1-87.	0.2	2
140	Biocorrosion Special Issue. <i>Corrosion</i> , 2017, 73, 1399-1400.	0.5	2
141	Metals for joint replacement. , 2021, , 65-122.		1