Jose Garcia-Anton

List of Publications by Year
in descending order

126	3,330	136950	182427
papers	citations	32	51
		h-index	g-index

130	130	130	2519
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition effect of chromate on the passivation and pitting corrosion of a duplex stainless steel in LiBr solutions using electrochemical techniques. Corrosion Science, 2007, 49, 3200-3225.	6.6	153
2	Assessment of the roughness factor effect and the intrinsic catalytic activity for hydrogen evolution reaction on Ni-based electrodeposits. International Journal of Hydrogen Energy, 2011, 36, 9428-9438.	7.1	146
3	Synthesis and characterization of macroporous Ni, Co and Niâ€“Co electrocatalytic deposits for hydrogen evolution reaction in alkaline media. International Journal of Hydrogen Energy, 2013, 38, 10157-10169.	7.1	128
4	Effect of pH and chloride concentration on the removal of hexavalent chromium in a batch electrocoagulation reactor. Journal of Hazardous Materials, 2009, 169, 1127-1133.	12.4	122
5	Effect of temperature on passive film formation of UNS N08031 Crâ€“Ni alloy in phosphoric acid contaminated with different aggressive anions. Electrochimica Acta, 2013, 111, 552-561.	5.2	117
6	Passive and transpassive behaviour of Alloy 31 in a heavy brine LiBr solution. Electrochimica Acta, 2013, 95, 1-11.	5.2	106
7	Corrosion studies of austenitic and duplex stainless steels in aqueous lithium bromide solution at different temperatures. Corrosion Science, 2004, 46, 2955-2974.	6.6	98
8	Comparison of inorganic inhibitors of copper, nickel and copperâ€“nickels in aqueous lithium bromide solution. Electrochimica Acta, 2004, 50, 957-966.	5.2	92
9	Elimination of pesticide atrazine by photoelectrocatalysis using a photoanode based on WO3 nanosheets. Chemical Engineering Journal, 2018, 350, 1114-1124.	12.7	67
10	The effect of chromate in the corrosion behavior of duplex stainless steel in LiBr solutions. Corrosion Science, 2006, 48, 4127-4151.	6.6	64
11	Effect of temperature on the corrosion resistance and pitting behaviour of Alloy 31 in LiBr solutions. Corrosion Science, 2008, 50, 1848-1857.	6.6	62
12	Effects of solution temperature on localized corrosion of high nickel content stainless steels and nickel in chromated LiBr solution. Corrosion Science, 2006, 48, 3349-3374.	6.6	61
13	Effect of alloying elements on the electronic properties of thin passive films formed on carbon steel, ferritic and austenitic stainless steels in a highly concentrated LiBr solution. Thin Solid Films, 2014, 558, 252-258.	1.8	58
14	Effect of aqueous LiBr solutions on the corrosion resistance and galvanic corrosion of an austenitic stainless steel in its welded and non-welded condition. Corrosion Science, 2006, 48, 863-886.	6.6	53
15	Effect of potential formation on the electrochemical behaviour of a highly alloyed austenitic stainless steel in contaminated phosphoric acid at different temperatures. Electrochimica Acta, 2012, 80, 248-256.	5.2	53
16	A simple method to fabricate high-performance nanostructured WO3 photocatalysts with adjusted morphology in the presence of complexing agents. Materials and Design, 2017, 116, 160-170.	7.0	53
17	Galvanic corrosion of titanium coupled to welded titanium in LiBr solutions at different temperatures. Corrosion Science, 2009, 51, 1095-1102.	6.6	50
18	The effect of temperature on the galvanic corrosion of the copper/AISI 304 pair in LiBr solutions under hydrodynamic conditions. Corrosion Science, 2010, 52, 722-733.	6.6	49

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19	Influence of pH on the electrochemical behaviour of a duplex stainless steel in highly concentrated LiBr solutions. Corrosion Science, 2011, 53, 575-581.	6.6	49
20	Passivation behaviour of Alloy 31 (UNS N08031) in polluted phosphoric acid at different temperatures. Corrosion Science, 2012, 56, 114-122.	6.6	49
21	Effect of cavitation on the corrosion behaviour of welded and non-welded duplex stainless steel in aqueous LiBr solutions. Corrosion Science, 2006, 48, 2380-2405.	6.6	48
22	Pourbaix diagrams for titanium in concentrated aqueous lithium bromide solutions at 25Â°C. Corrosion Science, 2011, 53, 1440-1450.	6.6	48
23	Study of the catalytic activity of 3D macroporous Ni and NiMo cathodes for hydrogen production by alkaline water electrolysis. Journal of Applied Electrochemistry, 2016, 46, 791-803.	2.9	46
24	Repassivation of the damage generated by cavitation on UNS N08031 in a LiBr solution by means of electrochemical techniques and Confocal Laser Scanning Microscopy. Corrosion Science, 2010, 52, 3453-3464.	6.6	44
25	Enhancement of photoelectrochemical activity for water splitting by controlling hydrodynamic conditions on titanium anodization. Journal of Power Sources, 2015, 286, 224-231.	7.8	42
26	Imposed potential measurements to evaluate the pitting corrosion resistance and the galvanic behaviour of a highly alloyed austenitic stainless steel and its weldment in a LiBr solution at temperatures up to 150Â°C. Corrosion Science, 2011, 53, 784-795.	6.6	40
27	ZnO/ZnS heterostructures for hydrogen production by photoelectrochemical water splitting. RSC Advances, 2016, 6, 30425-30435.	3.6	37
28	Passivity Breakdown of Titanium in LiBr Solutions. Journal of the Electrochemical Society, 2014, 161, C25-C35.	2.9	36
29	Improvement in photocatalytic activity of stable WO3 nanoplatelet globular clusters arranged in a tree-like fashion: Influence of rotation velocity during anodization. Applied Catalysis B: Environmental, 2016, 189, 266-282.	20.2	36
30	Corrosion behaviour and galvanic coupling of titanium and welded titanium in LiBr solutions. Corrosion Science, 2007, 49, 1000-1026.	6.6	34
31	Cavitation corrosion and repassivation kinetics of titanium in a heavy brine LiBr solution evaluated by using electrochemical techniques and Confocal Laser Scanning Microscopy. Electrochimica Acta, 2011, 58, 264-275.	5.2	34
32	Effect of temperature on the galvanic corrosion of a high alloyed austenitic stainless steel in its welded and non-welded condition in LiBr solutions. Corrosion Science, 2007, 49, 4472-4490.	6.6	33
33	Comparison between open circuit and imposed potential measurements to evaluate the effect of temperature on galvanic corrosion of the pair alloy 31â€“welded alloy 31 in LiBr solutions. Corrosion Science, 2008, 50, 3590-3598.	6.6	33
34	Evaluation of Alloy 146, 279, 900, and 926 sensitization to intergranular corrosion by means of electrochemical methods and image analysis. Corrosion Science, 2009, 51, 2080-2091.	6.6	33
35	Novel tree-like WO 3 nanoplatelets with very high surface area synthesized by anodization under controlled hydrodynamic conditions. Chemical Engineering Journal, 2016, 286, 59-67.	12.7	33
36	Study of the annealing conditions and photoelectrochemical characterization of a new iron oxide bi-layered nanostructure for water splitting. Solar Energy Materials and Solar Cells, 2016, 153, 68-77.	6.2	31

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37	Formation of anodic TiO2 nanotube or nanosponge morphology determined by the electrolyte hydrodynamic conditions. Electrochemistry Communications, 2013, 26, 1-4.	4.7	30
38	Study of the sensitisation process of a duplex stainless steel (UNS 1.4462) by means of confocal microscopy and localised electrochemical techniques. Corrosion Science, 2015, 94, 327-341.	6.6	29
39	Electrochemical recovery of tin and palladium from the activating solutions of the electroless plating of polymers. Separation and Purification Technology, 2005, 45, 183-191.	7.9	28
40	Characterization of thermal oxide films formed on a duplex stainless steel by means of confocal-Raman microscopy and electrochemical techniques. Thin Solid Films, 2015, 576, 1-10.	1.8	28
41	Corrosion behaviour of sensitized and unsensitized Alloy 900 (UNS 1.4462) in concentrated aqueous lithium bromide solutions at different temperatures. Corrosion Science, 2010, 52, 950-959.	6.6	27
42	Electrochemical recovery of tin from the activating solutions of the electroless plating of polymersGalvanostatic operation. Separation and Purification Technology, 2006, 51, 143-149.	7.9	26
43	Pourbaix diagrams for chromium in concentrated aqueous lithium bromide solutions at 25Â°C. Corrosion Science, 2009, 51, 807-819.	6.6	26
44	Effect of the micro-plasma arc welding technique on the microstructure and pitting corrosion of AISI 316L stainless steels in heavy LiBr brines. Corrosion Science, 2011, 53, 2598-2610.	6.6	26
45	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 1195-1202.	2.9	25
46	Photoelectrochemical removal of chlorfenvinphos by using WO3 nanorods: Influence of annealing temperature and operation pH. Separation and Purification Technology, 2019, 212, 458-464.	7.9	25
47	Effect of different micro-plasma arc welding (MPAW) processes on the corrosion of AISI 316L SS tubes in LiBr and H3PO4 solutions under flowing conditions. Corrosion Science, 2010, 52, 1508-1519.	6.6	24
48	Controlled hydrodynamic conditions on the formation of iron oxide nanostructures synthesized by electrochemical anodization: Effect of the electrode rotation speed. Applied Surface Science, 2017, 392, 503-513.	6.1	23
49	Photoelectrocatalyzed degradation of a pesticides mixture solution (chlorfenvinphos and bromacil) by WO3 nanosheets. Science of the Total Environment, 2019, 674, 88-95.	8.0	23
50	Degradation of Diazinon based on photoelectrocatalytic technique using enhanced WO3 nanostructures: Mechanism and pathway. Journal of Environmental Chemical Engineering, 2021, 9, 105371.	6.7	23
51	Analysis of mass and momentum transfer in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1999, 54, 1667-1675.	3.8	21
52	Contribution to the elucidation of corrosion initiation through confocal laser scanning microscopy (CLSM). Corrosion Science, 2010, 52, 2133-2142.	6.6	21
53	Contribution of the flowing conditions to the galvanic corrosion of the copper/AISI 316L coupling in highly concentrated LiBr solutions. Corrosion Science, 2013, 68, 91-100.	6.6	21
54	Photoelectrochemical characterization of anatase-rutile mixed TiO2 nanosponges. International Journal of Hydrogen Energy, 2016, 41, 18380-18388.	7.1	21

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55	Galvanic corrosion of high alloyed austenitic stainless steel welds in LiBr systems. Corrosion Science, 2007, 49, 4452-4471.	6.6	20
56	The influence of Reynolds number on the galvanic corrosion of the copper/AISI 304 pair in aqueous LiBr solutions. Corrosion Science, 2009, 51, 2733-2742.	6.6	20
57	Thermogalvanic corrosion of Alloy 31 in different heavy brine LiBr solutions. Corrosion Science, 2012, 55, 40-53.	6.6	20
58	Influence of temperature and applied potential on the electrochemical behaviour of nickel in LiBr solutions by means of electrochemical impedance spectroscopy. Corrosion Science, 2009, 51, 2406-2415.	6.6	19
59	Corrosion Behaviour of a Highly Alloyed Austenitic Alloy UB6 in Contaminated Phosphoric Acid. International Journal of Corrosion, 2013, 2013, 1-9.	1.1	19
60	Influence of electrolyte temperature on the synthesis of iron oxide nanostructures by electrochemical anodization for water splitting. International Journal of Hydrogen Energy, 2018, 43, 7923-7937.	7.1	19
61	Customized WO3 nanoplatelets as visible-light photoelectrocatalyst for the degradation of a recalcitrant model organic compound (methyl orange). Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 46-56.	3.9	18
62	Corrosion behaviour of micro-plasma arc welded stainless steels in H3PO4 under flowing conditions at different temperatures. Corrosion Science, 2011, 53, 1237-1246.	6.6	17
63	Thermogalvanic corrosion and galvanic effects of copper and AISI 316L stainless steel pairs in heavy LiBr brines under hydrodynamic conditions. Corrosion Science, 2012, 60, 118-128.	6.6	17
64	Study of the sensitisation of a highly alloyed austenitic stainless steel, Alloy 926 (UNS N08926), by means of scanning electrochemical microscopy. Electrochimica Acta, 2012, 70, 105-111.	5.2	17
65	Organophosphorus pesticides (chlorfenvinphos, phosmet and fenamiphos) photoelectrodegradation by using WO3 nanostructures as photoanode. Journal of Electroanalytical Chemistry, 2021, 894, 115366.	3.8	17
66	Influence of temperature and hydrodynamic conditions on the corrosion behavior of AISI 316L stainless steel in pure and polluted H3PO4: Application of the response surface methodology. Materials Chemistry and Physics, 2012, 133, 289-298.	4.0	16
67	Synergistic effect between hydrodynamic conditions during Ti anodization and acidic treatment on the photoelectric properties of TiO2 nanotubes. Journal of Catalysis, 2015, 330, 434-441.	6.2	16
68	Improvement of the electrochemical behaviour of Zn-electroplated steel using regenerated Cr (III) passivation baths. Chemical Engineering Science, 2014, 111, 402-409.	3.8	15
69	Effect of Reynolds number and lithium cation insertion on titanium anodization. Electrochimica Acta, 2016, 196, 24-32.	5.2	15
70	Determination of tin and lead by differential pulse polarography with addition of hyamine-2389. Analytica Chimica Acta, 1985, 177, 225-229.	5.4	14
71	TiO2 Nanostructures for Photoelectrocatalytic Degradation of Acetaminophen. Nanomaterials, 2019, 9, 583.	4.1	14
72	Determination of Hyamine 2389 critical micelle concentration (CMC) by means of conductometric, spectrophotometric and polarographic methods. Colloids and Surfaces, 1991, 61, 137-145.	0.9	13

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73	Effect of citric acid and hydrochloric acid on the polarographic behaviour of tin. Analytica Chimica Acta, 2003, 484, 243-251.	5.4	13
74	Influence of cavitation on the passive behaviour of duplex stainless steels in aqueous LiBr solutions. Corrosion Science, 2008, 50, 2560-2571.	6.6	13
75	Effects of microplasma arc AISI 316L welds on the corrosion behaviour of pipelines in LiBr cooling systems. Corrosion Science, 2013, 73, 365-374.	6.6	13
76	Iron oxide nanostructures for photoelectrochemical applications: Effect of applied potential during Fe anodization. Journal of Industrial and Engineering Chemistry, 2019, 70, 234-242.	5.8	13
77	Corrosion Behavior of Austenitic and Duplex Stainless Steel Weldings in Aqueous Lithium Bromide Solution. Corrosion, 2004, 60, 982-995.	1.1	12
78	Electrochemical study of the activating solution for electroless plating of polymers. Journal of Applied Electrochemistry, 2007, 37, 1145-1152.	2.9	12
79	Visible-light photoelectrodegradation of diuron on WO3 nanostructures. Journal of Environmental Management, 2018, 226, 249-255.	7.8	12
80	Enhancement of mass transfer at a spherical electrode in pulsating flow. Journal of Applied Electrochemistry, 1995, 25, 267.	2.9	11
81	The effect of benzotriazole on mass transfer in the corrosion of a copper rotating disk electrode. Journal of Applied Electrochemistry, 2000, 30, 379-384.	2.9	11
82	Effect of fluoride on corrosion behavior of UNS N08904 stainless steel in polluted phosphoric acid. Journal of Molecular Liquids, 2018, 265, 390-397.	4.9	11
83	Thermogalvanic effects on the corrosion of copper in heavy brine LiBr solutions. Corrosion Science, 2012, 63, 304-315.	6.6	10
84	Should TiO2 nanostructures doped with Li+ be used as photoanodes for photoelectrochemical water splitting applications?. Journal of Catalysis, 2017, 349, 41-52.	6.2	10
85	Study of corrosion on copper strips by petroleum naphtha in the ASTM D-130 test by means of electronic microscopy (SEM) and energy dispersive X-ray (EDX). Fresenius' Journal of Analytical Chemistry, 1990, 337, 382-388.	1.5	9
86	Velocity profiles and limiting current in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1997, 52, 843-851.	3.8	9
87	Photoelectrochemical Poperties of Anodic TiO2 Nanosponge Layers. ECS Electrochemistry Letters, 2012, 2, H9-H11.	1.9	9
88	Study of Passive Films Formed on AISI 316L Stainless Steel in Non-Polluted and Underwater-Volcano-Polluted Seawater. Corrosion, 2014, 70, 390-401.	1.1	9
89	Cathodoluminescence characterization of Zno/Zns nanostructures anodized under hydrodynamic conditions. Electrochimica Acta, 2018, 269, 553-559.	5.2	9
90	The effect of Reynolds number on TiO2 nanosponges doped with Li+ cations. New Journal of Chemistry, 2018, 42, 11054-11063.	2.8	9

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91	Influence of elemental sulfur and mercaptans on corrosion of copper strips in the ASTM D-130 test by means of electronic microscopy (SEM) and energy dispersive X-ray (EDX). Fresenius' Journal of Analytical Chemistry, 1991, 341, 606-610.	1.5	8
92	Spreadsheet Techniques for Evaluating the Solubility of Sparingly Soluble Salts of Weak Acids. Journal of Chemical Education, 1999, 76, 1157.	2.3	8
93	Influence of Zn(NO3)2 concentration during the ZnO electrodeposition on TiO2 nanosponges used in photoelectrochemical applications. Ceramics International, 2022, 48, 14460-14472.	4.8	8
94	Indirect charge transfer of holes via surface states in ZnO nanowires for photoelectrocatalytic applications. Ceramics International, 2022, 48, 21856-21867.	4.8	8
95	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 809-816.	2.9	7
96	Effect of Temperature on the Corrosion Resistance of Stainless Steels in Polluted Phosphoric Acid. ECS Transactions, 2010, 25, 49-61.	0.5	7
97	Confocal laser scanning microscopy for the study of the morphological changes of the postextraction sites. Microscopy Research and Technique, 2012, 75, 513-519.	2.2	7
98	Determination of elemental sulfur, mercaptan and disulfide in petroleum naphtha by differential-pulse polarography. Fresenius' Journal of Analytical Chemistry, 1990, 337, 372-376.	1.5	6
99	Erosionâ€“Corrosion Effect on the Alloy 316L in Polluted Phosphoric Acid. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	6
100	Corrosion Resistance and Galvanic Coupling of UNS N08031 Base Metal, Heat-Affected Zone, and Weld Metal in Phosphoric Acid at Different Temperatures. Corrosion, 2011, 67, 035001-1-035001-10.	1.1	5
101	Passive Behavior and Passivity Breakdown of AISI 304 in LiBr Solutions through Scanning Electrochemical Microscopy. Journal of the Electrochemical Society, 2014, 161, C565-C572.	2.9	5
102	Chemical and Physical Effects of Fluoride on the Corrosion of Austenitic Stainless Steel in Polluted Phosphoric Acid. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	5
103	How does anodization time affect morphological and photocatalytic properties of iron oxide nanostructures?. Journal of Materials Science and Technology, 2020, 38, 159-169.	10.7	5
104	Influence of triton X-100 in a micellar solution and in an emulsion on the polarographic behaviour of cobalt and determination of cobalt in paint driers and varnishes by differential-pulse polarography. Analyst, The, 1985, 110, 1365-1368.	3.5	4
105	Influence of triton X-100 in a micellar solution and in an emulsion on the polarographic behaviour of lead and the determination of lead in paint driers and varnishes by differential-pulse polarography. Analyst, The, 1986, 111, 823-825.	3.5	4
106	Determination of zinc in lubricating oil by polarography of emulsified samples. Fresenius' Journal of Analytical Chemistry, 1992, 343, 905-906.	1.5	4
107	Effect of Temperature on Galvanic Corrosion of Non-Welded/Welded AISI 316L Stainless Steel in H3PO4. ECS Transactions, 2009, 25, 63-81.	0.5	4
108	Postâ€extraction mesioâ€distal gap reduction assessment by confocal laser scanning microscopy â€“ a clinical 3â€month followâ€up study. Journal of Clinical Periodontology, 2017, 44, 548-555.	4.9	4

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109	Original Approach to Synthesize TiO2/ZnO Hybrid Nanosponges Used as Photoanodes for Photoelectrochemical Applications. Materials, 2021, 14, 6441.	2.9	4
110	Study of corrosion on copper strips by mixtures of mercaptans, sulphides and disulphides with elemental sulphur in the ASTM D-130 test by means of electron microscopy (SEM) and energy dispersive X-ray (EDX). Fresenius' Journal of Analytical Chemistry, 1992, 343, 593-596.	1.5	3
111	Use of ion-exchange membranes for the removal of tin from spent activating solutions. Desalination and Water Treatment, 2009, 3, 150-156.	1.0	3
112	Comparison of the effect of nonâ€polluted and underwaterâ€volcanoâ€polluted seawater on the corrosion resistance of different stainless steels. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1279-1289.	1.5	3
113	Influence of ionic potential on the chromatographic behaviour of some alkaline earth halides. Chromatographia, 1980, 13, 497-499.	1.3	2
114	Influence of Temperature and Reynolds Number on the Galvanic Corrosion of the Copper/AISI 304 Stainless Steel Pair in Lithium Bromide Using a Zero-Resistance Ammeter. Corrosion, 2012, 68, 411-420.	1.1	2
115	Potential-pH Diagrams of Iron in Concentrated Aqueous LiBr Solutions at 25Â°C. Corrosion, 2018, 74, 1102-1116.	1.1	2
116	Electrochemical study of the components of Karl Fischer reagent on platinum rotating disk electrode. Electrochimica Acta, 1991, 36, 1057-1061.	5.2	1
117	In Situ Study of Corrosion Evolution of Alloy 926 (UNS N08926) in its Unsensitized and Sensitized State in LiBr Solutions Using Confocal Laser Scanning Microscopy. ECS Transactions, 2012, 41, 45-54.	0.5	1
118	Effect of Temperature and Impurities on the AISI 316L/Microplasma Arc Welded AISI 316L Galvanic Pair in H3PO4 under Flowing Conditions. ECS Transactions, 2012, 41, 35-44.	0.5	1
119	Effect of temperature on the passive state of Alloy 31 in a LiBr solution: Passivation and Mottâ€Schottky analysis. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1305-1314.	1.5	1
120	ZnO nanostructures: synthesis by anodization and applications in photoelectrocatalysis. Reviews in Chemical Engineering, 2022, 38, 1065-1088.	4.4	1
121	Specific effect of alkali-metal cations on the kinetics of peroxodisulfateâ€“iodide reactions. Influence of approach distance, Gibbs energy of hydration and equivalent ionic conductivity. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1345-1348.	1.7	0
122	Influence of Temperature on the Corrosion Behavior and the Hydrogen Evolution Reaction on Chromium in LiBr Solution. ECS Transactions, 2010, 25, 83-92.	0.5	0
123	Fabrication of Ordered and High-Performance Nanostructured Photoelectrocatalysts by Electrochemical Anodization: Influence of Hydrodynamic Conditions. , 2019, , .		0
124	Passive behaviour of stainless steels and nickel in LiBr solution at different temperatures. , 2006, , 41-46.		0
125	Corrosion de l'alliage 31 soudÃ© dans l'acide phosphorique industriel. Annales De Chimie: Science Des Materiaux, 2013, 38, 59-69.	0.4	0
126	Electrochemical Behavior During the Zirconium Conversion Coating Formation on AISI 1006 Steel. Materials Research, 2019, 22, .	1.3	0