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	ZnO nanostructures: synthesis by anodization and applications in photoelectrocatalysis. Reviews in Chemical Engineering, 2022, 38, 1065-1088.	4.4	1
2	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
3	Indirect charge transfer of holes via surface states in ZnO nanowires for photoelectrocatalytic applications. Ceramics International, 2022, 48, 21856-21867.	4.8	8
4	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
5	Organophosphorus pesticides (chlorfenvinphos, phosmet and fenamiphos) photoelectrodegradation by using WO3 nanostructures as photoanode. Journal of Electroanalytical Chemistry, 2021, 894, 115366.	3.8	17
6	Original Approach to Synthesize TiO2/ZnO Hybrid Nanosponges Used as Photoanodes for Photoelectrochemical Applications. Materials, 2021, 14, 6441.	2.9	4
7	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
8	Erosionâ€“Corrosion Effect on the Alloy 316L in Polluted Phosphoric Acid. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	6
9	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
10	TiO2 Nanostructures for Photoelectrocatalytic Degradation of Acetaminophen. Nanomaterials, 2019, 9, 583.	4.1	14
11	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
12	Fabrication of Ordered and High-Performance Nanostructured Photoelectrocatalysts by Electrochemical Anodization: Influence of Hydrodynamic Conditions. , 2019, , .		0
13	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
14	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
15	Electrochemical Behavior During the Zirconium Conversion Coating Formation on AISI 1006 Steel. Materials Research, 2019, 22, .	1.3	0
16	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
17	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
18	Cathodoluminescence characterization of Zno/Zns nanostructures anodized under hydrodynamic conditions. Electrochimica Acta, 2018, 269, 553-559.	5.2	9

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19	Potential-pH Diagrams of Iron in Concentrated Aqueous LiBr Solutions at 25Â°C. Corrosion, 2018, 74, 1102-1116.	1.1	2
20	The effect of Reynolds number on TiO2 nanosponges doped with Li+ cations. New Journal of Chemistry, 2018, 42, 11054-11063.	2.8	9
21	Visible-light photoelectrodegradation of diuron on WO3 nanostructures. Journal of Environmental Management, 2018, 226, 249-255.	7.8	12
22	Elimination of pesticide atrazine by photoelectrocatalysis using a photoanode based on WO3 nanosheets. Chemical Engineering Journal, 2018, 350, 1114-1124.	12.7	67
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Photoelectrochemical characterization of anatase-rutile mixed TiO2 nanosponges. International Journal of Hydrogen Energy, 2016, 41, 18380-18388.	7.1	21
31	ZnO/ZnS heterostructures for hydrogen production by photoelectrochemical water splitting. RSC Advances, 2016, 6, 30425-30435.	3.6	37
32	Effect of Reynolds number and lithium cation insertion on titanium anodization. Electrochimica Acta, 2016, 196, 24-32.	5.2	15
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
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	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
42	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
43	Passivity Breakdown of Titanium in LiBr Solutions. Journal of the Electrochemical Society, 2014, 161, C25-C35.	2.9	36
44	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
45	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
46	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
47	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
48	Formation of anodic TiO2 nanotube or nanosponge morphology determined by the electrolyte hydrodynamic conditions. Electrochemistry Communications, 2013, 26, 1-4.	4.7	30
49	Passive and transpassive behaviour of Alloy 31 in a heavy brine LiBr solution. Electrochimica Acta, 2013, 95, 1-11.	5.2	106
50	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
51	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
52	Corrosion Behaviour of a Highly Alloyed Austenitic Alloy UB6 in Contaminated Phosphoric Acid. International Journal of Corrosion, 2013, 2013, 1-9.	1.1	19
53	Corrosion de l'alliage 31 soudÃ© dans l'acide phosphorique industriel. Annales De Chimie: Science Des Materiaux, 2013, 38, 59-69.	0.4	0
54	Photoelectrochemical Poperties of Anodic TiO2 Nanosponge Layers. ECS Electrochemistry Letters, 2012, 2, H9-H11.	1.9	9

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55	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
56	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
57	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
58	Thermogalvanic corrosion of Alloy 31 in different heavy brine LiBr solutions. Corrosion Science, 2012, 55, 40-53.	6.6	20
59	Passivation behaviour of Alloy 31 (UNS N08031) in polluted phosphoric acid at different temperatures. Corrosion Science, 2012, 56, 114-122.	6.6	49
60	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
61	Thermogalvanic effects on the corrosion of copper in heavy brine LiBr solutions. Corrosion Science, 2012, 63, 304-315.	6.6	10
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	Pourbaix diagrams for titanium in concentrated aqueous lithium bromide solutions at 25Â°C. Corrosion Science, 2011, 53, 1440-1450.	6.6	48
70	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
71	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
72	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

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73	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
74	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
75	Effect of Temperature on the Corrosion Resistance of Stainless Steels in Polluted Phosphoric Acid. ECS Transactions, 2010, 25, 49-61.	0.5	7
76	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
77	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
78	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
79	Contribution to the elucidation of corrosion initiation through confocal laser scanning microscopy (CLSM). Corrosion Science, 2010, 52, 2133-2142.	6.6	21
80	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
81	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
82	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
83	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
84	Pourbaix diagrams for chromium in concentrated aqueous lithium bromide solutions at 25Â°C. Corrosion Science, 2009, 51, 807-819.	6.6	26
85	Galvanic corrosion of titanium coupled to welded titanium in LiBr solutions at different temperatures. Corrosion Science, 2009, 51, 1095-1102.	6.6	50
86	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
87	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
88	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
89	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
90	Influence of cavitation on the passive behaviour of duplex stainless steels in aqueous LiBr solutions. Corrosion Science, 2008, 50, 2560-2571.	6.6	13

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91	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
92	Corrosion behaviour and galvanic coupling of titanium and welded titanium in LiBr solutions. Corrosion Science, 2007, 49, 1000-1026.	6.6	34
93	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
94	Galvanic corrosion of high alloyed austenitic stainless steel welds in LiBr systems. Corrosion Science, 2007, 49, 4452-4471.	6.6	20
95	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
96	Electrochemical study of the activating solution for electroless plating of polymers. Journal of Applied Electrochemistry, 2007, 37, 1145-1152.	2.9	12
97	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
98	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
99	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
100	The effect of chromate in the corrosion behavior of duplex stainless steel in LiBr solutions. Corrosion Science, 2006, 48, 4127-4151.	6.6	64
101	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
102	Passive behaviour of stainless steels and nickel in LiBr solution at different temperatures. , 2006, , 41-46.		0
103	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
104	Comparison of inorganic inhibitors of copper, nickel and copperâ€“nickels in aqueous lithium bromide solution. Electrochimica Acta, 2004, 50, 957-966.	5.2	92
105	Corrosion Behavior of Austenitic and Duplex Stainless Steel Weldings in Aqueous Lithium Bromide Solution. Corrosion, 2004, 60, 982-995.	1.1	12
106	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
107	Effect of citric acid and hydrochloric acid on the polarographic behaviour of tin. Analytica Chimica Acta, 2003, 484, 243-251.	5.4	13
108	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 1195-1202.	2.9	25

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109	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
110	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 809-816.	2.9	7
111	Analysis of mass and momentum transfer in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1999, 54, 1667-1675.	3.8	21
112	Spreadsheet Techniques for Evaluating the Solubility of Sparingly Soluble Salts of Weak Acids. Journal of Chemical Education, 1999, 76, 1157.	2.3	8
113	Velocity profiles and limiting current in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1997, 52, 843-851.	3.8	9
114	Enhancement of mass transfer at a spherical electrode in pulsating flow. Journal of Applied Electrochemistry, 1995, 25, 267.	2.9	11
115	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
116	Determination of zinc in lubricating oil by polarography of emulsified samples. Fresenius' Journal of Analytical Chemistry, 1992, 343, 905-906.	1.5	4
117	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
118	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
119	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
120	Electrochemical study of the components of Karl Fischer reagent on platinum rotating disk electrode. Electrochimica Acta, 1991, 36, 1057-1061.	5.2	1
121	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
122	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
123	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
124	Determination of tin and lead by differential pulse polarography with addition of hyamine-2389. Analytica Chimica Acta, 1985, 177, 225-229.	5.4	14
125	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
126	Influence of ionic potential on the chromatographic behaviour of some alkaline earth halides. Chromatographia, 1980, 13, 497-499.	1.3	2