

Daniel John Blackwood

List of Publications by Year in descending order

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151
papers

5,231
citations

76196

40
h-index

102304

66
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152
all docs

152
docs citations

152
times ranked

4949
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion protection by multilayered conducting polymer coatings. <i>Corrosion Science</i> , 2003, 45, 545-557.	3.0	284
2	Effects of biogenic H ₂ S on the microbiologically influenced corrosion of C1018 carbon steel by sulfate reducing <i>Desulfovibrio vulgaris</i> biofilm. <i>Corrosion Science</i> , 2018, 130, 1-11.	3.0	230
3	Rational Design of Self-Supported Ni ₃ S ₂ Nanosheets Array for Advanced Asymmetric Supercapacitor with a Superior Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 496-504.	4.0	216
4	Work function and spectroscopic studies of interactions between conducting polymers and organic vapors. <i>The Journal of Physical Chemistry</i> , 1991, 95, 493-502.	2.9	179
5	Microbially influenced corrosion—Any progress?. <i>Corrosion Science</i> , 2020, 170, 108641.	3.0	177
6	Stability and open circuit breakdown of the passive oxide film on titanium. <i>Electrochimica Acta</i> , 1988, 33, 1143-1149.	2.6	153
7	A Review on Recent Advances in Electrochromic Devices: A Material Approach. <i>Advanced Engineering Materials</i> , 2020, 22, 2000082.	1.6	148
8	Corrosion behaviour of porous titanium-graphite composites designed for surgical implants. <i>Corrosion Science</i> , 2000, 42, 481-503.	3.0	124
9	Interactions between polyaniline and methanol vapour. <i>Sensors and Actuators B: Chemical</i> , 2000, 71, 184-191.	4.0	108
10	Real time pit initiation studies on stainless steels: The effect of sulphide inclusions. <i>Corrosion Science</i> , 2007, 49, 1755-1764.	3.0	105
11	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. <i>ACS Nano</i> , 2020, 14, 937-947.	7.3	101
12	The influence of growth rate on the properties of anodic oxide films on titanium. <i>Electrochimica Acta</i> , 1989, 34, 1505-1511.	2.6	96
13	Influence of the space-charge region on electrochemical impedance measurements on passive oxide films on titanium. <i>Electrochimica Acta</i> , 2000, 46, 563-569.	2.6	89
14	Friction stir processing of aluminium alloy AA7075: Microstructure, surface chemistry and corrosion resistance. <i>Corrosion Science</i> , 2016, 106, 217-228.	3.0	87
15	Characterisation of passive films on 300 series stainless steels. <i>Applied Surface Science</i> , 2006, 253, 1006-1009.	3.1	85
16	Electrochemical cathodic deposition of hydroxyapatite: Improvements in adhesion and crystallinity. <i>Materials Science and Engineering C</i> , 2009, 29, 1233-1238.	3.8	85
17	Three-dimensional microfabrication in bulk silicon using high-energy protons. <i>Applied Physics Letters</i> , 2004, 84, 3202-3204.	1.5	79
18	Characterisation of titanium oxide film grown in 0.9% NaCl at different sweep rates. <i>Electrochimica Acta</i> , 2005, 51, 1099-1107.	2.6	78

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19	In Situ Characterization of the Illuminated Silicon-Electrolyte Interface by Fourier-Transform Infrared Spectroscopy. <i>Physical Review Letters</i> , 1989, 62, 308-311.	2.9	74
20	Photocurrent and capacitance investigations into the nature of the passive films on austenitic stainless steels. <i>Corrosion Science</i> , 2008, 50, 23-34.	3.0	73
21	New insight into growth mechanism of ZnO nanowires electrodeposited from nitrate-based solutions. <i>Electrochimica Acta</i> , 2012, 69, 181-189.	2.6	73
22	An ellipsometric study of the growth and open-circuit dissolution of the anodic oxide film on titanium. <i>Electrochimica Acta</i> , 1989, 34, 875-880.	2.6	72
23	Biomaterials: Past Successes and Future Problems. <i>Corrosion Reviews</i> , 2003, 21, 97-124.	1.0	71
24	Effects of anodization parameters on the formation of titania nanotubes in ethylene glycol. <i>Electrochimica Acta</i> , 2010, 56, 905-912.	2.6	66
25	Corrosion of titanium alloys in high temperature near anaerobic seawater. <i>Corrosion Science</i> , 2016, 105, 17-24.	3.0	65
26	Hole transport through proton-irradiated p-type silicon wafers during electrochemical anodization. <i>Physical Review B</i> , 2006, 73, .	1.1	61
27	Macrofouling induced localized corrosion of stainless steel in Singapore seawater. <i>Corrosion Science</i> , 2017, 129, 152-160.	3.0	54
28	Self-supported phase-pure Ni ₃ S ₂ sheet-on-rod nanoarrays with enhanced pseudocapacitive properties and high energy density. <i>Journal of Power Sources</i> , 2016, 325, 575-583.	4.0	53
29	Recent advances and future perspectives for graphene oxide reinforced epoxy resins. <i>Materials Today Communications</i> , 2020, 23, 100883.	0.9	53
30	Anaerobic Corrosion of Carbon Steel and Cast Iron in Artificial Groundwaters: Part I – Electrochemical Aspects. <i>Corrosion</i> , 2002, 58, 547-559.	0.5	51
31	An Electrochemist Perspective of Microbiologically Influenced Corrosion. <i>Corrosion and Materials Degradation</i> , 2018, 1, 59-76.	1.0	50
32	Electrochemical and optical studies of silicon dissolution in ammonium fluoride solutions. <i>Electrochimica Acta</i> , 1992, 37, 889-896.	2.6	49
33	The effects of anodization parameters on titania nanotube arrays and dye sensitized solar cells. <i>Nanotechnology</i> , 2008, 19, 405701.	1.3	49
34	Self-supported core/shell Co ₃ O ₄ @Ni ₃ S ₂ nanowires for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 311, 221-229.	2.6	49
35	Highly efficient dye-sensitized solar cells using phenothiazine derivative organic dyes. <i>Progress in Photovoltaics: Research and Applications</i> , 2010, 18, 573-581.	4.4	48
36	A new class of solid state ionic conductors for application in all solid state dye sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 2091.	2.2	48

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37	Stability of protective oxide films formed on a porous titanium. <i>Corrosion Science</i> , 2002, 44, 395-405.	3.0	45
38	The inhibitive effect of bicarbonate and carbonate ions on carbon steel in simulated concrete pore solution. <i>Corrosion Science</i> , 2014, 88, 152-160.	3.0	45
39	One-pot synthesis of self-supported hierarchical urchin-like Ni ₃ S ₂ with ultrahigh areal pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22115-22122.	5.2	44
40	Oxygen Reduction and Evolution Reaction (ORR and OER) Bifunctional Electrocatalyst Operating in a Wide pH Range for Cathodic Application in Li-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 9417-9427.	2.5	42
41	MOF-reinforced Co ₉ S ₈ self-supported nanowire arrays for highly durable and flexible supercapacitor. <i>Electrochimica Acta</i> , 2020, 346, 136201.	2.6	41
42	Anaerobic Corrosion of Carbon Steel and Cast Iron in Artificial Groundwaters: Part 2 – Gas Generation. <i>Corrosion</i> , 2002, 58, 627-637.	0.5	40
43	Freestanding waveguides in silicon. <i>Applied Physics Letters</i> , 2007, 90, 241109.	1.5	40
44	Microbially influenced corrosion: Towards an interdisciplinary perspective on mechanisms. <i>International Biodeterioration and Biodegradation</i> , 2020, 154, 105062.	1.9	40
45	Multicolor Photoluminescence from Porous Silicon Using Focused, High-Energy Helium Ions. <i>Advanced Materials</i> , 2006, 18, 51-55.	11.1	39
46	Development of a Nanostructured MnO ₂ /Carbon Paper Composite for Removal of Ni ²⁺ /Mn ²⁺ Ions by Electrosorption. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19615-19625.	4.0	37
47	Electrochemistry of ferrocene in acetonitrile. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 237, 269-273.	0.3	36
48	Photocorrosion of n-Si in ammonium fluoride solutions: an investigation by in-situ Fourier transform infrared spectroscopy. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 294, 111-121.	0.3	33
49	Moving boundary simulation and mechanistic studies of the electrochemical corrosion protection by a damaged zinc coating. <i>Corrosion Science</i> , 2020, 163, 108296.	3.0	33
50	Galvanostatic pulse deposition of hydroxyapatite for adhesion to titanium for biomedical purposes. <i>Materials Science and Engineering C</i> , 2010, 30, 561-565.	3.8	32
51	A versatile ionic liquid-assisted approach to synthesize hierarchical structures of Ni(OH) ₂ nanosheets for high performance pseudocapacitor. <i>Electrochimica Acta</i> , 2016, 188, 863-870.	2.6	29
52	Controlled intensity emission from patterned porous silicon using focused proton beam irradiation. <i>Applied Physics Letters</i> , 2004, 85, 4370.	1.5	28
53	Electrochromic Enhancement of WO ₃ -TiO ₂ Composite Films Produced by Electrochemical Anodization. <i>Journal of the Electrochemical Society</i> , 2014, 161, E191-E201.	1.3	28
54	The effect of etching temperature on the photoluminescence emitted from, and the morphology of, p-type porous silicon. <i>Electrochimica Acta</i> , 2003, 48, 623-630.	2.6	27

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55	Effect of Molybdate on the Passivation of Carbon Steel in Alkaline Solutions under Open-Circuit Conditions. <i>Journal of the Electrochemical Society</i> , 2016, 163, C649-C658.	1.3	27
56	The effects of W content on solid-solution strengthening and the critical Hall-Petch grain size in Ni-W alloy. <i>Surface and Coatings Technology</i> , 2019, 357, 23-27.	2.2	27
57	Initial-corrosion condition behavior of the Cr and Al alloy steel bars in coral concrete for marine construction. <i>Cement and Concrete Composites</i> , 2021, 120, 104051.	4.6	27
58	Periodic Upright Nanopyramids for Light Management Applications in Ultrathin Crystalline Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 493-501.	1.5	26
59	Influence of H ₂ S-producing chemical species in culture medium and energy source starvation on carbon steel corrosion caused by methanogens. <i>Corrosion Science</i> , 2017, 119, 102-111.	3.0	26
60	Nanodiamond decorated graphene oxide and the reinforcement to epoxy. <i>Composites Science and Technology</i> , 2018, 165, 9-17.	3.8	26
61	Electrochemical and Photoelectrochemical Characterization of the Passive Film Formed on AISI 254SMO Super-Austenitic Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2007, 154, C16.	1.3	25
62	Three-dimensional micromachining of silicon using a nuclear microprobe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 222, 513-517.	0.6	24
63	Three-dimensional control of optical waveguide fabrication in silicon. <i>Optics Express</i> , 2008, 16, 573.	1.7	24
64	A sims investigation of hydrogen penetration of titanium electrodes. <i>Electrochimica Acta</i> , 1989, 34, 1401-1403.	2.6	23
65	First-principles study of surface orientation dependent corrosion of BCC iron. <i>Corrosion Science</i> , 2022, 196, 110029.	3.0	23
66	Potential modulated reflectance spectroscopy of anodic oxide films on titanium. <i>Electrochimica Acta</i> , 1990, 35, 1073-1080.	2.6	21
67	Proton beam writing of microstructures in silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 231, 357-363.	0.6	21
68	Honey-Comb Structured WO ₃ /TiO ₂ Thin Films with Improved Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , 2015, 162, E205-E212.	1.3	21
69	Onset of Microbial Influenced Corrosion (MIC) in Stainless Steel Exposed to Mixed Species Biofilms from Equatorial Seawater. <i>Journal of the Electrochemical Society</i> , 2017, 164, C532-C538.	1.3	21
70	DFT Study of Oxygen Reduction Reaction on Chromia and Hematite: Insights into Corrosion Inhibition. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13799-13808.	1.5	21
71	Analysis of the corrosion performance of binder jet additive manufactured magnesium alloys for biomedical applications. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1296-1310.	5.5	21
72	FePt films fabricated by electrodeposition. <i>Journal of Applied Physics</i> , 2007, 101, 09K519.	1.1	20

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73	White Light from an Indium Zinc Oxide/Porous Silicon Light-Emitting Diode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 751-754.	1.5	20
74	Bi-level surface modification of hard disk media by carbon using filtered cathodic vacuum arc: Reduced overcoat thickness without reduced corrosion performance. <i>Diamond and Related Materials</i> , 2014, 44, 100-108.	1.8	20
75	Composition-Dependent Pseudocapacitive Properties of Self-Supported Nickel-Based Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7101-7107.	1.5	20
76	Self-Supported Transition Metal-Based Nanoarrays for Efficient Energy Storage. <i>Chemical Record</i> , 2022, 22, e202100294.	2.9	20
77	The effect of solvent type on the infrared spectrum of carbon monoxide adsorbed at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 256, 397-403.	0.3	18
78	Influence of the chemical composition of the plating solution on the ability of nickel coatings to protect Nd ₂ Fe ₁₄ B magnets against corrosion. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 223, 103-111.	1.0	16
79	No corrosion of 304 stainless steel implant after 40 years of service. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 755-758.	1.7	16
80	Potentiostatic formation of porous silicon in dilute HF: Evidence that nanocrystal size is not restricted by quantum confinement. <i>Electrochimica Acta</i> , 2008, 53, 4381-4386.	2.6	16
81	Influence of fouling on the efficiency of sacrificial anodes in providing cathodic protection in Southeast Asian tropical seawater. <i>Biofouling</i> , 2010, 26, 779-785.	0.8	16
82	An in situ surface fourier transform infrared study of complexes of lithium, magnesium, potassium and lanthanum ferrocyanide at platinum and gold electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 244, 301-305.	0.3	15
83	Electrochemical & optical characterisation of passive films on stainless steels. <i>Journal of Physics: Conference Series</i> , 2006, 28, 74-78.	0.3	15
84	High resolution TEM and triple-axis XRD investigation into porous silicon formed on highly conducting substrates. <i>Electrochimica Acta</i> , 2009, 54, 3671-3676.	2.6	15
85	Electroless plating of noble metal nanoparticles for improved performance of silicon photodiodes via surface plasmon resonance. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1201-1206.	3.0	14
86	An EIS Investigation into the Influence of HF Concentration on Porous Silicon Formation. <i>Journal of the Electrochemical Society</i> , 2014, 161, E44-E52.	1.3	14
87	Sodium-Salt-Promoted Growth of Self-Supported Copper Oxides with Comparative Supercapacitive Properties. <i>ChemElectroChem</i> , 2017, 4, 3188-3195.	1.7	14
88	Effect of heat treatment on the corrosion behaviour of amorphous Mg-18 at% Ni alloy. <i>Journal of Alloys and Compounds</i> , 1998, 279, 252-258.	2.8	13
89	The influence of heat treatment on the corrosion behaviour of amorphous melt-spun binary Mg-18 at.% Ni and Mg-21 at.% Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 304-306, 510-514.	2.6	13
90	Influence of Carbon Sputtering Conditions on Corrosion Protection of Magnetic Layer by an Electrochemical Technique. <i>Journal of the Electrochemical Society</i> , 2002, 149, B84.	1.3	13

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91	New developments in the applications of proton beam writing. Nuclear Instruments & Methods in Physics Research B, 2005, 237, 188-192.	0.6	13
92	Influence of Au particles on the photocurrent of TiO ₂ films. Journal of Electroceramics, 2006, 16, 593-598.	0.8	13
93	Towards understanding micro-galvanic activities in localised corrosion of AA2099 aluminium alloy. Electrochimica Acta, 2021, 392, 139005.	2.6	13
94	An in-situ surface fourier transform infrared study of the adsorption of isoquinoline at a stationary mercury electrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 247, 277-285.	0.3	12
95	The behavior of the infrared spectrum of carbon monoxide adsorbed at platinum electrodes from non-aqueous solvents. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 256, 387-395.	0.3	12
96	Influence of Doping Density on the Current~Voltage Characteristics of p-Type Silicon in Dilute Hydrofluoric Acid. Journal of Physical Chemistry C, 2008, 112, 303-307.	1.5	12
97	Investigation into the influence of laser melting on the sulphide inclusions in AISI 416 stainless steel. Corrosion Science, 2011, 53, 3950-3955.	3.0	12
98	Functionalization of a porous silicon impedance sensor. Thin Solid Films, 2014, 550, 677-682.	0.8	12
99	Finite Element Method for Thin Film Corrosion Modelling: Where We Advanced and Where We would like to Advance?. Corrosion and Materials Degradation, 2020, 1, 273-281.	1.0	12
100	Fabrication of silicon microstructures using a high-energy ion beam. , 2004, , .		11
101	Corrosion behaviour of high copper dental amalgams. Journal of Oral Rehabilitation, 2004, 31, 595-599.	1.3	11
102	Porous silicon microcavities fabricated using ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 445-449.	0.6	11
103	Inhibition of Bicarbonate-Chloride Corrosion and Passivation of Carbon Steel under Open-Circuit Conditions by Molybdate. Journal of the Electrochemical Society, 2017, 164, C505-C515.	1.3	11
104	Moving Boundary Simulation of Iron-Zinc Sacrificial Corrosion under Dynamic Electrolyte Thickness Based on Real-Time Monitoring Data. Journal of the Electrochemical Society, 2020, 167, 041503.	1.3	11
105	On the long term estimation of hydrogen embrittlement risks of titanium for the fabrication of nuclear waste container in bentonite buffer of nuclear waste repository. Journal of Nuclear Materials, 2020, 533, 152092.	1.3	11
106	In-Situ Time-Lapse SKPFM Investigation of Sensitized AA5083 Aluminum Alloy to Understand Localized Corrosion. Journal of the Electrochemical Society, 2020, 167, 141502.	1.3	11
107	An infrared study of thiocyanate at the mercury electrode interface. Electrochimica Acta, 1988, 33, 1019-1022.	2.6	10
108	Controlled Shift in Emission Wavelength from Patterned Porous Silicon Using Focused Ion Beam Irradiation. Journal of the Electrochemical Society, 2005, 152, D173.	1.3	10

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109	Photoluminescent n-Type Porous Silicon Fabricated in the Dark. <i>Advanced Materials</i> , 2008, 20, 3165-3168.	11.1	10
110	Influence of anodization on the adhesion of calcium phosphate coatings on titanium substrates. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1551-1556.	2.1	10
111	A Self-Assembled Two-Layer Structured WO ₃ /TiO _{2-x} Mixed Film with Improved Electrochromic Capacities. <i>Journal of the Electrochemical Society</i> , 2013, 160, E130-E138.	1.3	9
112	Revisiting Corrosion Protection Mechanisms of a Steel Surface by Damaged Zinc-Rich Paints. <i>Corrosion</i> , 2019, 75, 756-770.	0.5	9
113	Barrier and Sacrificial Protection Mechanisms of Zinc Rich Primers. <i>Engineering Journal</i> , 2019, 23, 223-233.	0.5	9
114	In Situ Electrochemical Functionalization of Porous Silicon. <i>Journal of the Electrochemical Society</i> , 2006, 153, G976.	1.3	8
115	Tunable colour emission from patterned porous silicon using ion beam writing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 378-383.	0.6	8
116	Polyol Electroless and Electrodeposition of Nanostructured Ni-Co Films and Powders. <i>Journal of the Electrochemical Society</i> , 2002, 149, D27.	1.3	7
117	Porous silicon-based Bragg reflectors and Fabry-Perot interference filters for photonic applications. <i>Journal of Applied Physics</i> , 2006, 6125, 229.		7
118	Tuning oxygen reduction activity on chromia surface via alloying: a DFT study. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4087-4092.	1.7	7
119	SNIFTIRS study of the behavior of the spectrum of carbon monoxide adsorbed on a platinum electrode in alcoholic solvents. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 304, 219-231.	0.3	6
120	Tunneling Relaxation of Photocurrent from Passive Films on Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2006, 153, B178.	1.3	6
121	Revisiting Cl-Induced Degradation of MnS Inclusions Using DFT. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24189-24195.	1.5	6
122	Insights into the influence of oxide inclusions on corrosion performance of additive manufactured magnesium alloys. <i>Npj Materials Degradation</i> , 2022, 6, .	2.6	6
123	POROUS SILICON: INFLUENCE OF ETCHING TEMPERATURE ON MICROSTRUCTURE AND LUMINESCENCE. <i>Surface Review and Letters</i> , 2001, 08, 429-433.	0.5	5
124	The influence of dissolved oxygen in solution on the titanium oxide growth at different sweep rates. <i>Electrochimica Acta</i> , 2006, 51, 3521-3525.	2.6	5
125	Degradation of Acid Orange 7 through radical activation by electro-generated cuprous ions. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103450.	3.3	5
126	Pitting corrosion on aluminium in absence of chloride. <i>Corrosion Engineering Science and Technology</i> , 1998, 33, 219-224.	0.3	5

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127	Micro-patterned porous silicon using proton beam writing. AIP Conference Proceedings, 2006, , .	0.3	4
128	Comparative Oxygen Evolution Reaction performance of cobalt oxide electrocatalyst in combination with various metal ions MCo_2O_4 ($M= Mn^{2+}, Cu^{2+}$,) Tj ETQq0 0.0 rgBT /Overlock 1 Materials Science and Engineering, 2020, 872, 012182.	0.3	4
129	A systematic investigation on synergistic electroplating and capacitive removal of Pb^{2+} from artificial industrial waste water. RSC Advances, 2021, 11, 12877-12884.	1.7	4
130	Electrochemical Modeling of Scanning Vibrating Electrode Technique on Scratched and Inclined Surfaces. Journal of the Electrochemical Society, 2021, 168, 081505.	1.3	4
131	The Role of the Flat-Band Potential in Porous Silicon Formation. Journal of the Electrochemical Society, 2012, 159, H909-H911.	1.3	3
132	Mechanism and dissolution rates of anodic oxide films on silicon. Electrochimica Acta, 2013, 105, 209-217.	2.6	3
133	Freeze-dried graphene oxide modified with trimethylhexamethylene in the mix solvent for improved anti-corrosion property of epoxy. Journal of Applied Polymer Science, 2020, 137, 49139.	1.3	3
134	Investigation of the Electrochemical Breakdown Response in Sensitised AA5083 Aluminium Alloy. Sustainability, 2021, 13, 7342.	1.6	3
135	White electroluminescence from ITO/porous silicon junctions. Journal of Luminescence, 2013, 134, 67-70.	1.5	2
136	Influence of Light Ion Irradiation on the Current-Voltage Characteristics of Electrochemical Anodization of p-Type Silicon. Journal of the Electrochemical Society, 2014, 161, E97-E103.	1.3	2
137	Contradictory Results from Single Loop Electrochemical Potentiokinetic Reactivation Test and Oxalic Acid Test for Intergranular Corrosion in 304L Stainless Steels Attributed to Si Grain-Boundary Segregation. Journal of the Electrochemical Society, 2019, 166, C410-C420.	1.3	2
138	The activation of carbon-fluorine bonds by oxidative addition at tungsten(O). Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 258, 139-146.	0.3	1
139	Patterning light emitting porous silicon using helium beam irradiation. , 2006, , .		1
140	Fabrication of patterned porous silicon using high-energy ion irradiation. Journal of Porous Materials, 2006, 13, 259-261.	1.3	1
141	Enhanced efficiency of phenothiazine derivative organic dye-sensitized ionic liquid solar cells on aging. Progress in Photovoltaics: Research and Applications, 2013, 21, 525-533.	4.4	1
142	Can the Point Defect Model Explain the Influence of Temperature and Anion Size on Pitting of Stainless Steels. Corrosion Science and Technology, 2015, 14, 253-260.	0.2	1
143	Can Finite Element Method Obtain SVET Current Densities Closer to True Localized Corrosion Rates?. Materials, 2022, 15, 3764.	1.3	1
144	ELECTROCHEMICAL TECHNIQUES TO AID IN THE DEVELOPMENT OF IMPROVED CARBON OVERCOATS ON MAGNETIC STORAGE MEDIA. International Journal of Modern Physics B, 2002, 16, 968-972.	1.0	0

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145	Future prospects for silicon photonics. Proceedings of SPIE, 2007, , .	0.8	0
146	Novel fabrication techniques for silicon photonics. , 2007, , .		0
147	An all-silicon channel waveguide fabricated using direct proton beam writing. Proceedings of SPIE, 2008, , .	0.8	0
148	Electrochemical Anodization of Silicon-on-Insulator Wafers Using an AC. Electrochemical and Solid-State Letters, 2010, 13, H271.	2.2	0
149	Electrochemical Investigation into the Dissolution Mechanism of Anodic Oxide Films on Silicon. Materials Research Society Symposia Proceedings, 2013, 1542, 1.	0.1	0
150	Facile Cyclic Voltammetricâ€Induced Trimetallic Oxides with Shearâ€Wall Structure Exhibiting Advanced Performance in an Asymmetric Pseudocapacitor. Energy Technology, 2021, 9, 2001136.	1.8	0
151	Box 13: Silicon Micro/Nano-Fabrication Using Proton Beam Writing and Electrochemical Etching. Particle Acceleration and Detection, 2009, , 323-328.	0.3	0