

I S Cole

List of Publications by Year in descending order

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papers

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87723

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162
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7142
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#	ARTICLE	IF	CITATIONS
1	Tunable Photoluminescence Across the Entire Visible Spectrum from Carbon Dots Excited by White Light. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2970-2974.	7.2	546
2	Carbon dots as fluorescent probes for Cu^{2+} detection of Cu^{2+} and l-cysteine in aqueous solution. <i>Biosensors and Bioelectronics</i> , 2014, 51, 330-335.	5.3	278
3	Core-shell quantum dots: Properties and applications. <i>Journal of Alloys and Compounds</i> , 2015, 636, 395-404.	2.8	266
4	Critical review: Microbially influenced corrosion of buried carbon steel pipes. <i>International Biodeterioration and Biodegradation</i> , 2014, 93, 84-106.	1.9	212
5	Designing green, self-healing coatings for metal protection. <i>NPG Asia Materials</i> , 2010, 2, 143-151.	3.8	190
6	Structural evolution of graphene quantum dots during thermal decomposition of citric acid and the corresponding photoluminescence. <i>Carbon</i> , 2015, 82, 304-313.	5.4	183
7	Recent advances in biodegradation controls over Mg alloys for bone fracture management: A review. <i>Journal of Materials Science and Technology</i> , 2019, 35, 535-544.	5.6	171
8	Corrosion of pipelines used for CO_2 transport in CCS: Is it a real problem?. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 749-756.	2.3	148
9	Towards chromate-free corrosion inhibitors: structure-property models for organic alternatives. <i>Green Chemistry</i> , 2014, 16, 3349-3357.	4.6	132
10	The dual roles of functional groups in the photoluminescence of graphene quantum dots. <i>Nanoscale</i> , 2016, 8, 7449-7458.	2.8	125
11	The toxicity of graphene quantum dots. <i>RSC Advances</i> , 2016, 6, 89867-89878.	1.7	124
12	2D WS ₂ /carbon dot hybrids with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13563-13571.	5.2	119
13	Laser-Reduced Graphene: Synthesis, Properties, and Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1700315.	3.0	116
14	Holistic model for atmospheric corrosion Part 1 - Theoretical framework for production, transportation and deposition of marine salts. <i>Corrosion Engineering Science and Technology</i> , 2003, 38, 129-134.	0.7	113
15	Using high throughput experimental data and in silico models to discover alternatives to toxic chromate corrosion inhibitors. <i>Corrosion Science</i> , 2016, 106, 229-235.	3.0	101
16	The protective nature of passivation films on zinc: surface charge. <i>Corrosion Science</i> , 2004, 46, 2319-2335.	3.0	100
17	A Study of the Wetting of Metal Surfaces in Order to Understand the Processes Controlling Atmospheric Corrosion. <i>Journal of the Electrochemical Society</i> , 2004, 151, B627.	1.3	84
18	Carbon Dot Therapeutic Platforms: Administration, Distribution, Metabolism, Excretion, Toxicity, and Therapeutic Potential. <i>Small</i> , 2022, 18, e2106342.	5.2	75

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19	What really controls the atmospheric corrosion of zinc? Effect of marine aerosols on atmospheric corrosion of zinc. <i>International Materials Reviews</i> , 2009, 54, 117-133.	9.4	69
20	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. <i>Carbon</i> , 2019, 141, 83-91.	5.4	68
21	Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg ²⁺ detection. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 28-34.	5.0	67
22	Synthesis of copper-tin nanoparticles from old computer printed circuit boards. <i>Journal of Cleaner Production</i> , 2017, 142, 2586-2592.	4.6	65
23	Quantum-confined bandgap narrowing of TiO ₂ nanoparticles by graphene quantum dots for visible-light-driven applications. <i>Chemical Communications</i> , 2016, 52, 9208-9211.	2.2	64
24	Two-step synthesis of luminescent MoS ₂ @ZnS hybrid quantum dots. <i>Nanoscale</i> , 2015, 7, 16763-16772.	2.8	54
25	Model for corrosion of metals covered with thin electrolyte layers: Pseudo-steady state diffusion of oxygen. <i>Electrochimica Acta</i> , 2011, 56, 7171-7179.	2.6	53
26	The protective nature of passivation films on zinc: wetting and surface energy. <i>Corrosion Science</i> , 2004, 46, 2337-2354.	3.0	52
27	A review of nucleate boiling on nanoengineered surfaces – The nanostructures, phenomena and mechanisms. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 20-33.	2.5	51
28	Quantum dot (QD)-based probes for multiplexed determination of heavy metal ions. <i>Mikrochimica Acta</i> , 2020, 187, 336.	2.5	50
29	Holistic model for atmospheric corrosion: Part 2 - Experimental measurement of deposition of marine salts in a number of long range studies. <i>Corrosion Engineering Science and Technology</i> , 2003, 38, 259-266.	0.7	49
30	Photoluminescence enhancement of carbon dots by gold nanoparticles conjugated via PAMAM dendrimers. <i>Nanoscale</i> , 2013, 5, 11200.	2.8	49
31	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces. <i>Journal of the Electrochemical Society</i> , 2010, 157, C213.	1.3	46
32	Corrosion under a porous layer: A porous electrode model and its implications for self-repair. <i>Electrochimica Acta</i> , 2011, 56, 8192-8203.	2.6	46
33	Pitting Corrosion of Zn and Zn-Al Coated Steels in pH 2 to 12 NaCl Solutions. <i>Journal of the Electrochemical Society</i> , 2007, 154, C7.	1.3	45
34	FIB/SEM study of AA2024 corrosion under a seawater drop: Part I. <i>Corrosion Science</i> , 2011, 53, 1086-1096.	3.0	45
35	Products Formed during the Interaction of Seawater Droplets with Zinc Surfaces: I. Results from 1- and 2.5-Day Exposures. <i>Journal of the Electrochemical Society</i> , 2008, 155, C244.	1.3	42
36	Improving in vitro and in vivo antibacterial functionality of Mg alloys through micro-alloying with Sr and Ga. <i>Materials Science and Engineering C</i> , 2019, 104, 109926.	3.8	42

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37	Experimental and computational studies of graphene oxide covalently functionalized by octylamine: electrochemical stability, hydrogen evolution, and corrosion inhibition of the AZ13 Mg alloy in 3.5% NaCl. <i>RSC Advances</i> , 2020, 10, 11426-11434.	1.7	42
38	Critical review on the passive film formation and breakdown on iron electrode and the models for the mechanisms underlying passivity. <i>Journal of Electroanalytical Chemistry</i> , 2017, 785, 196-215.	1.9	40
39	Picomolar reversible Hg(II) solid-state sensor based on carbon dots in double heterostructure colloidal photonic crystals. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 204-211.	4.0	40
40	Interfacial study of the formation mechanism of corrosion resistant strontium phosphate coatings upon Mg-3Al-4.3Ca-0.1Mn. <i>Corrosion Science</i> , 2019, 151, 143-153.	3.0	40
41	Sandwich-structured TiO ₂ inverse opal circulates slow photons for tremendous improvement in solar energy conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12803-12810.	5.2	39
42	Revelation of Intertwining Organic and Inorganic Fractal Structures in Polymer Coatings. <i>Advanced Materials</i> , 2014, 26, 4504-4508.	11.1	37
43	Anomalous Fluorescence Enhancement from Double Heterostructure 3D Colloidal Photonic Crystals—A Multifunctional Fluorescence-Based Sensor Platform. <i>Scientific Reports</i> , 2015, 5, 14439.	1.6	35
44	FIB/SEM study of AA2024 corrosion under a seawater drop, part II. <i>Corrosion Science</i> , 2012, 55, 116-125.	3.0	34
45	Towards multiscale modelling of localised corrosion. <i>International Materials Reviews</i> , 2014, 59, 84-114.	9.4	33
46	Laser exposure induced alteration of WS ₂ monolayers in the presence of ambient moisture. <i>2D Materials</i> , 2018, 5, 015013.	2.0	33
47	Fluorescent Magnesium Hydroxide Nanosheet Bandages with Tailored Properties for Biocompatible Antimicrobial Wound Dressings and pH Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27904-27919.	4.0	32
48	Exfoliation of Quasi-Stratified Bi ₂ S ₃ Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. <i>Chemistry of Materials</i> , 2016, 28, 8942-8950.	3.2	31
49	Experimental and DFT studies on the ultrasonic energy-assisted extraction of the phytochemicals of <i>Catharanthus roseus</i> as green corrosion inhibitors for mild steel in NaCl medium. <i>RSC Advances</i> , 2020, 10, 5399-5411.	1.7	31
50	Holistic model for atmospheric corrosion Part 4 – Geographic information system for predicting airborne salinity. <i>Corrosion Engineering Science and Technology</i> , 2004, 39, 89-96.	0.7	30
51	Compact Oxides Formed on Zinc during Exposure to a Single Sea-Water Droplet. <i>Journal of the Electrochemical Society</i> , 2013, 160, C59-C63.	1.3	30
52	Mathematical models of dependence of surface temperatures of exposed metal plates on environmental parameters. <i>Corrosion Engineering Science and Technology</i> , 2006, 41, 67-76.	0.7	29
53	Tunable Photoluminescence Across the Entire Visible Spectrum from Carbon Dots Excited by White Light. <i>Angewandte Chemie</i> , 2015, 127, 3013-3017.	1.6	29
54	Correlation between molecular features and electrochemical properties using an artificial neural network. <i>Materials and Design</i> , 2016, 112, 410-418.	3.3	29

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55	A spatiotemporally resolved infection risk model for airborne transmission of COVID-19 variants in indoor spaces. <i>Science of the Total Environment</i> , 2022, 812, 152592.	3.9	29
56	Evolution of 2D tin oxides on the surface of molten tin. <i>Chemical Communications</i> , 2018, 54, 2102-2105.	2.2	27
57	Synergistic Coating Strategy Combining Photodynamic Therapy and Fluoride-Free Superhydrophobicity for Eradicating Bacterial Adhesion and Reinforcing Corrosion Protection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46862-46873.	4.0	27
58	Quorum sensing inhibitors applications: A new prospect for mitigation of microbiologically influenced corrosion. <i>Bioelectrochemistry</i> , 2022, 145, 108050.	2.4	27
59	Recent Progress and Required Developments in Atmospheric Corrosion of Galvanised Steel and Zinc. <i>Materials</i> , 2017, 10, 1288.	1.3	26
60	Incorporation of quantum carbon dots into a PVP/ZnO hydrogel for use as an effective hexavalent chromium sensing platform. <i>Analytica Chimica Acta</i> , 2020, 1099, 126-135.	2.6	26
61	Using Fourier Transform Infrared Analysis to Detect Corrosion Products on the Surface of Metals Exposed to Atmospheric Conditions. <i>Corrosion</i> , 1997, 53, 788-799.	0.5	25
62	The effect of fluorophore incorporation on fluorescence enhancement in colloidal photonic crystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1743-1749.	1.3	23
63	Selective thermal transformation of old computer printed circuit boards to Cu-Sn based alloy. <i>Journal of Environmental Management</i> , 2017, 199, 7-12.	3.8	23
64	Praseodymium-decorated graphene oxide as a corrosion inhibitor in acidic media for the magnesium AZ31 alloy. <i>RSC Advances</i> , 2018, 8, 34275-34286.	1.7	23
65	Experimental and computational studies of a graphene oxide barrier layer covalently functionalized with amino acids on Mg AZ13 alloy in salt medium. <i>RSC Advances</i> , 2019, 9, 32441-32447.	1.7	22
66	Holistic model for atmospheric corrosion: Part 3 - Effect of natural and man made landforms on deposition of marine salts in Australia and south-east Asia. <i>Corrosion Engineering Science and Technology</i> , 2003, 38, 267-274.	0.7	21
67	The influence of microstructure on surface phenomena: Rolled zinc. <i>Corrosion Science</i> , 2007, 49, 2037-2058.	3.0	21
68	Oxygen consumption upon electrochemically polarised zinc. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 747-757.	1.5	19
69	Fluorescent heavy metal cation sensing with water dispersible 2MPA capped CdSe/ZnS quantum dots. <i>Journal of Luminescence</i> , 2015, 166, 88-92.	1.5	19
70	Tailoring the edges of graphene quantum dots to establish localized π - π interactions with aromatic molecules. <i>RSC Advances</i> , 2015, 5, 41248-41254.	1.7	19
71	Experimental determination of duration of wetness on metal surfaces. <i>Corrosion Engineering Science and Technology</i> , 2008, 43, 156-162.	0.7	18
72	Designing molecular protection: new paradigm for developing corrosion resistant materials uniting high throughput studies, multiscale modelling and self-repair. <i>Corrosion Engineering Science and Technology</i> , 2014, 49, 109-115.	0.7	18

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73	Molecular ionization and deprotonation energies as indicators of functional coating performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16660-16668.	5.2	18
74	Enhanced quantum efficiency from a mosaic of two dimensional MoS ₂ formed onto aminosilane functionalised substrates. <i>Nanoscale</i> , 2016, 8, 12258-12266.	2.8	18
75	Corrosion inhibition on mild steel by phosphonium salts in 1 M HNO ₃ aqueous medium. <i>Surfaces and Interfaces</i> , 2017, 6, 237-246.	1.5	18
76	Microbiologically influenced corrosion: a review of the studies conducted on buried pipelines. <i>Corrosion Reviews</i> , 2020, 38, 231-262.	1.0	18
77	Catalytic degradation of methylene blue using iron and nitrogen-containing carbon dots as Fenton-like catalysts. <i>New Journal of Chemistry</i> , 2021, 46, 263-275.	1.4	18
78	Experimental studies on dependence of surface temperatures of exposed metal plates on environmental parameters. <i>Corrosion Engineering Science and Technology</i> , 2005, 40, 328-336.	0.7	17
79	Holistic model for atmospheric corrosion Part 7 – Cleaning of salt from metal surfaces. <i>Corrosion Engineering Science and Technology</i> , 2007, 42, 106-111.	0.7	17
80	Field studies of surface cleaning and salt retention on openly exposed metal plates. <i>Corrosion Engineering Science and Technology</i> , 2006, 41, 310-320.	0.7	16
81	Experimental determination of time taken for openly exposed metal surfaces to dry. <i>Corrosion Engineering Science and Technology</i> , 2006, 41, 161-167.	0.7	15
82	Investigation of the microstructure of an aqueously corroded zinc wire by data-constrained modelling with multi-energy X-ray CT. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 180-184.	0.8	15
83	Modeling corrosion inhibition efficacy of small organic molecules as non-toxic chromate alternatives using comparative molecular surface analysis (CoMSA). <i>Chemosphere</i> , 2016, 160, 80-88.	4.2	14
84	Investigation of agar as a soil analogue for corrosion studies. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 7-12.	0.8	14
85	In-depth insights of inhibitory behaviour of 2-amino-4-methylthiazole towards galvanised steel in neutral NaCl solution. <i>Corrosion Science</i> , 2022, 199, 110206.	3.0	14
86	Possible effects of climate change on atmospheric corrosion in Australia. <i>Corrosion Engineering Science and Technology</i> , 2010, 45, 19-26.	0.7	13
87	Towards the development of a corrosion map for Abu Dhabi. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 1066-1073.	0.8	13
88	Mn-Mg based zinc phosphate and vanadate for corrosion inhibition of steel pipelines transport of CO ₂ rich fluids. <i>International Journal of Greenhouse Gas Control</i> , 2012, 7, 218-224.	2.3	13
89	Nano-scale reservoir computing. <i>Nano Communication Networks</i> , 2013, 4, 189-196.	1.6	13
90	Neodymium-decorated graphene oxide as a corrosion barrier layer on Ti6Al4V alloy in acidic medium. <i>RSC Advances</i> , 2019, 9, 8537-8545.	1.7	13

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91	Modeling Corrosion of a Metal under an Aerosol Droplet. <i>Materials Science Forum</i> , 0, 654-656, 1650-1653.	0.3	12
92	A High-Throughput Test Methodology for Atmospheric Corrosion Studies. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, C9.	2.2	12
93	Metastable and stable pitting events at zinc passive layer in alkaline solutions. <i>Ionics</i> , 2014, 20, 127-136.	1.2	12
94	Patterned films from exfoliated two-dimensional transition metal dichalcogenides assembled at a liquid-liquid interface. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6937-6944.	2.7	12
95	3D-QSAR for binding constants of β -cyclodextrin host-guest complexes by utilising spectrophores as molecular descriptors. <i>Chemosphere</i> , 2019, 225, 135-138.	4.2	12
96	Direct writing of divacancy centers in silicon carbide by femtosecond laser irradiation and subsequent thermal annealing. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	12
97	Evaluation of novel Griess-reagent candidates for nitrite sensing in aqueous media identified via molecular fingerprint searching. <i>RSC Advances</i> , 2019, 9, 3994-4000.	1.7	11
98	Hazard profiling of a combinatorial library of zinc oxide nanoparticles: Ameliorating light and dark toxicity through surface passivation. <i>Journal of Hazardous Materials</i> , 2022, 434, 128825.	6.5	11
99	Effect of climate change on corrosion rates of structures in Australia. <i>Climatic Change</i> , 2014, 124, 133-146.	1.7	10
100	A microclimate model to simulate neutral salt spray testing for corrosion inhibitor evaluation and functional coating development. <i>Progress in Organic Coatings</i> , 2017, 111, 327-335.	1.9	10
101	Hybrid additive manufacturing of biocompatible Ti-Ta composite structures for biomedical applications. <i>Journal of Materials Research</i> , 2021, 36, 3679.	1.2	10
102	A corrosion map of Abu Dhabi. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 247-255.	0.8	9
103	Plasma forming multilayer ceramics for ultra-high temperature application. <i>Vacuum</i> , 2013, 88, 134-138.	1.6	9
104	Effect of <i>Pseudomonas fluorescens</i> on Buried Steel Pipeline Corrosion. <i>Environmental Science & Technology</i> , 2017, 51, 8501-8509.	4.6	9
105	Controllable Synthesis of Carbon Dots with Excitation Wavelength-Dependent or Independent Photoluminescence for the Selective and Sensitive Detection of Co^{2+} Ions. <i>ChemistrySelect</i> , 2018, 3, 11791-11799.	0.7	9
106	Nondestructive quantitative characterisation of material phases in metal additive manufacturing using multi-energy synchrotron X-rays microtomography. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1601-1615.	1.5	9
107	Green synthesis of <i>Opuntia</i> -derived carbon nanodots for the catalytic decolourization of cationic dyes. <i>New Journal of Chemistry</i> , 2020, 44, 20001-20012.	1.4	9
108	Attachment Efficiencies of Salt Aerosols onto Infrastructure and Implications for Atmospheric Corrosion. <i>Journal of the Electrochemical Society</i> , 2005, 152, B125.	1.3	8

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109	Development of a System for Corrosion Diagnostics and Prognostics. <i>Corrosion Reviews</i> , 2007, 25, 161-178.	1.0	8
110	Development of a sensor-based learning approach to prognostics in intelligent vehicle health monitoring. , 2008, , .		8
111	The Design and Synthesis of Fluorescent Coumarin Derivatives and Their Study for Cu ²⁺ Sensing with an Application for Aqueous Soil Extracts. <i>Molecules</i> , 2019, 24, 3569.	1.7	8
112	Experimental and DFT studies of porous carbon covalently functionalized by polyaniline as a corrosion inhibition barrier on nickel-based alloys in acidic media. <i>RSC Advances</i> , 2020, 10, 12151-12165.	1.7	8
113	Steel Corrosion Map of Vietnam. <i>Corrosion Science and Technology</i> , 2012, 11, 103-107.	0.2	8
114	Combined influence of Ce(III) and iodide ions for corrosion protection of AA 2024-T3 in acidic to neutral chloride-rich environments: Electrochemical and surface characterization studies. <i>Journal of Rare Earths</i> , 2023, 41, 309-320.	2.5	8
115	Modelling aerosol deposition rates on aircraft and implications for pollutant accumulation and corrosion. <i>Corrosion Engineering Science and Technology</i> , 2009, 44, 332-339.	0.7	7
116	The effect of peptide based nutrients on the corrosion of carbon steel in an agar based system. <i>Corrosion Science</i> , 2016, 110, 174-181.	3.0	7
117	Experimental and DFT studies of carbon nanotubes covalently functionalized with an imidazole derivative for electrochemical stability and green corrosion inhibition as a barrier layer on the nickel alloy surface in a sulphuric acidic medium. <i>RSC Advances</i> , 2019, 9, 38677-38686.	1.7	7
118	THE EFFECT OF CATHODIC PROTECTION POTENTIAL ON CORROSION FATIGUE CRACK GROWTH RATE OF AN OFFSHORE STRUCTURAL STEEL. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1996, 19, 1019-1029.	1.7	6
119	Models for Corrosion of Metals under Thin Electrolyte Layers. <i>ECS Transactions</i> , 2011, 35, 1-10.	0.3	6
120	Distributed quantum dot sensors for monitoring the integrity of protective aerospace coatings. , 2012, , .		6
121	Moisture Distribution in Porous Oxide and Polymer Over-Layers and Critical Relative Humidity and Time of Wetness for Chloride and Non-Chloride-Bearing Atmospheres for Atmospheric Corrosion of Metals. <i>Journal of the Electrochemical Society</i> , 2016, 163, C675-C685.	1.3	6
122	Interfacial separation of concentrated dye mixtures from solution with environmentally compatible nitrogenous-silane nanoparticles modified with Helianthus annuus husk extract. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 825-837.	5.0	6
123	Experimental and DFT studies of gadolinium decorated graphene oxide materials for their redox properties and as a corrosion inhibition barrier layer on Mg AZ13 alloy in a 3.5% NaCl environment. <i>RSC Advances</i> , 2021, 11, 22095-22105.	1.7	6
124	Enhancement of the corrosion properties of cold sprayed Ti-6Al-4V coatings on mild steel via silica sealer. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 0, , .	0.8	6
125	Frequency and duration of wetness periods on surfaces in airframes. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 529-535.	0.7	5
126	Microstructure characterisation and reconstruction of intermetallic particles. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 664-669.	0.8	5

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127	A model to estimate moisture distribution in porous oxides as a function of atmospheric conditions. Journal of Electroanalytical Chemistry, 2014, 725, 1-6.	1.9	5
128	Remediation of groundwater contaminated with dye using carbon dots technology: Ecotoxicological and microbial community responses. Journal of Environmental Management, 2022, 319, 115634.	3.8	5
129	A SUMMARY REPORT OF AN ESIS WORKING PARTY ON FRACTURE CONTROL GUIDELINES FOR ENVIRONMENTALLY ASSISTED CRACKING OF LOW ALLOY STEELS. Fatigue and Fracture of Engineering Materials and Structures, 1993, 16, 603-618.	1.7	4
130	Multi-Scale Modeling of the Corrosion of Metals under Atmospheric Corrosion. Materials Science Forum, 2007, 561-565, 2209-2212.	0.3	4
131	Predictions of in-situ melt pool geometric signatures via machine learning techniques for laser metal deposition. International Journal of Computer Integrated Manufacturing, 2023, 36, 1345-1361.	2.9	4
132	A Review on the Catalytic Remediation of Dyes by Tailored Carbon Dots. Water (Switzerland), 2022, 14, 1456.	1.2	4
133	Predicting the service life of buildings and components. Proceedings of Institution of Civil Engineers: Construction Materials, 2011, 164, 305-314.	0.7	3
134	Regulation of interfacial chemistry by coupled reaction-diffusion processes in the electrolyte: A stiff solution dynamics model for corrosion and passivity of metals. Journal of Electroanalytical Chemistry, 2014, 722-723, 68-77.	1.9	3
135	Effect of inhalation on oropharynx collapse via flow visualisation. Journal of Biomechanics, 2021, 118, 110200.	0.9	3
136	An Al-Cu Multielectrode Model for Studying Corrosion Inhibition with Praseodymium Mercaptoacetate at Intermetallic Particles in AA2024. Journal of the Electrochemical Society, 2021, 168, 071501.	1.3	3
137	Theory of impedance for initial corrosion of metals under a thin electrolyte layer: a coupled charge transfer-diffusion model. Journal of Chemical Sciences, 2022, 134, .	0.7	3
138	Gallium-Strontium Phosphate Conversion Coatings for Promoting Infection Prevention and Biocompatibility of Magnesium for Orthopedic Applications. ACS Biomaterials Science and Engineering, 2022, 8, 2709-2723.	2.6	3
139	Recent Progress in Intelligent Vehicle Health Monitoring. Key Engineering Materials, 0, 558, 357-363.	0.4	2
140	Quasi-Continuously Tuning the Size of Graphene Quantum Dots via an Edge-Etching Mechanism. MRS Advances, 2016, 1, 1459-1467.	0.5	2
141	Photoluminescence measurements of carbon quantum dots within three-dimensional hydrogel matrices using a high throughput 96 well plate method. MethodsX, 2019, 6, 437-441.	0.7	2
142	A pilot study on carbon quantum dots for bioimaging of muscle myoblasts. , 2020, , .		2
143	The influence of powder morphology on the microstructure and mechanical properties of as-sprayed and heat-treated cold-sprayed CP Ti. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	2
144	Influence of Gas Temperature and Heat Treatment on Microstructure and Properties of Cold Sprayed Commercially Pure Titanium. Journal of Materials Engineering and Performance, 2022, 31, 5549-5558.	1.2	2

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145	AN ASSESSMENT OF A MICRO-MECHANIC MODEL OF HYDROGEN-INDUCED STRESS CORROSION CRACKING, BASED ON A STUDY OF AN X65 LINE PIPE STEEL. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1994, 17, 265-275.	1.7	1
146	Progress towards a Unified Model of Corrosion with Porous Oxides. <i>ECS Transactions</i> , 2010, 28, 145-156.	0.3	1
147	Nano-scale reservoir computing. , 2013, , .		1
148	Facile synthesis of Tb-decorated graphene oxide: electrochemical stability, hydrogen storage, and corrosion inhibition of Mg AZ13 alloy in 3.5% NaCl medium. <i>RSC Advances</i> , 2021, 11, 662-670.	1.7	1
149	Long term durability studies on the corrosion inhibition effect of 2-mercaptobenzimidazole (C ₃ H ₄ N ₂ S) on AA6022: Mechanism of film formation and influence of IMPs. <i>Surfaces and Interfaces</i> , 2021, 25, 101164.	1.5	1
150	In Vitro Biocompatibility of Surface Corrosion Films upon Magnesium. <i>Corrosion</i> , 2021, 77, 218-227.	0.5	1
151	Permanganate, Molybdate and Vanadate Conversion Coatings. , 2022, , 113-131.		1
152	Evolution and stability of 2-mercaptobenzimidazole inhibitor film upon Al alloy 6061. <i>Journal of Applied Electrochemistry</i> , 0, , 1.	1.5	1
153	Effect of thickness on the fatigue life of welded joints for offshore platforms. <i>Welding International</i> , 1992, 6, 450-454.	0.3	0
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