

Herman Terry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

521
papers

12,070
citations

54
h-index

79
g-index

552
ext. papers

13,918
ext. citations

4.2
avg, IF

6.53
L-index

#	Paper	IF	Citations
521	Reviewing machine learning of corrosion prediction in a data-oriented perspective. <i>Npj Materials Degradation</i> , 2022 , 6,	5.7	2
520	Eruption frequency and magnitude in a geothermally active continental rift: The Bora-Baricha-Tullu Moye volcanic complex, Main Ethiopian Rift. <i>Journal of Volcanology and Geothermal Research</i> , 2022 , 423, 107471	2.8	0
519	Unraveling the mechanism of the conversion treatment on Advanced High Strength Stainless Steels (AHSS). <i>Applied Surface Science</i> , 2022 , 572, 151418	6.7	1
518	The Hot-Stamping Effect on the Corrosion Properties of the 22MnB5 Steel Coated with Hot-Dip Aluminum-Silicon Assessed by a Salt Spray Test and Raman Spectroscopy. <i>Corrosion</i> , 2022 , 78, 339-349	1.8	
517	Albumin Protein Adsorption on CoCrMo Implant Alloy: Impact on the Corrosion Behaviour at Localized Scale. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 031507	3.9	1
516	Adhesion properties of tartaric sulfuric acid anodic films assessed by a fast and quantitative peel tape adhesion test. <i>International Journal of Adhesion and Adhesives</i> , 2022 , 103156	3.4	0
515	Operando odd random phase electrochemical impedance spectroscopy for in situ monitoring of the anodizing process. <i>Electrochemistry Communications</i> , 2022 , 137, 107268	5.1	0
514	Growth mechanism study of silver nanostructures in a limited volume. <i>Materials Chemistry and Physics</i> , 2022 , 283, 126016	4.4	2
513	Smart protective coatings with self-sensing and active corrosion protection dual functionality from pH-sensitive calcium carbonate microcontainers. <i>Corrosion Science</i> , 2022 , 200, 110254	6.8	0
512	Fabrication of a molecularly imprinted monolithic column via the epitope approach for the selective capillary microextraction of neuropeptides in human plasma.. <i>Talanta</i> , 2022 , 243, 123397	6.2	0
511	Predicting the effect of droplet geometry and size distribution on atmospheric corrosion. <i>Corrosion Science</i> , 2022 , 110308	6.8	0
510	Growth kinetics and passive behavior of the native oxide film on additively manufactured AlSi10Mg versus the conventional cast alloy. <i>Corrosion Science</i> , 2022 , 203, 110352	6.8	1
509	Unravelling the chemisorption mechanism of epoxy-amine coatings on Zr-based converted galvanized steel by combined static XPS/ToF-SIMS approach. <i>Applied Surface Science</i> , 2022 , 153798	6.7	0
508	Unraveling the formation mechanism of hybrid Zr conversion coating on advanced high strength stainless steels (AHSS). <i>Surface and Coatings Technology</i> , 2022 , 128567	4.4	0
507	Role of phosphate, calcium species and hydrogen peroxide on albumin protein adsorption on surface oxide of Ti6Al4V alloy. <i>Materialia</i> , 2021 , 15, 100988	3.2	8
506	A dataset of high-resolution synchrotron x-ray photoelectron spectra of tarnished silver-copper surfaces before and after reduction with a remote helium plasma at atmospheric pressure. <i>Data in Brief</i> , 2021 , 35, 106872	1.2	
505	The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. <i>Corrosion Science</i> , 2021 , 181, 109206	6.8	2

504	EditorsChoice Dealloying-Driven Cerium Precipitation on Intermetallic Particles in Aerospace Aluminium Alloys. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 041505	3.9	3
503	Effect of Homogenization Temperature and Soaking Time on the Microstructure and Corrosion Properties of a Twin Roll Casted AA3003. <i>Corrosion</i> , 2021 , 77, 991-1002	1.8	0
502	Mechanism of LDH Direct Growth on Aluminum Alloy Surface: A Kinetic and Morphological Approach. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11687-11701	3.8	4
501	Depth profiling approach to evaluate the influence of hot stamping on the local electrochemical behaviour and galvanic series of hot-dip Al-Si coating on 22MnB5 steel. <i>Corrosion Science</i> , 2021 , 185, 109435	6.8	2
500	Long-term deterioration of lubricant-infused nanoporous anodic aluminium oxide surface immersed in NaCl solution. <i>Journal of Materials Science and Technology</i> , 2021 , 64, 57-65	9.1	6
499	Review on modelling of corrosion under droplet electrolyte for predicting atmospheric corrosion rate. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 254-267	9.1	9
498	Ion yield enhancement at the organic/inorganic interface in SIMS analysis using Ar-GCIB. <i>Applied Surface Science</i> , 2021 , 536, 147716	6.7	1
497	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. <i>Corrosion Science</i> , 2021 , 179, 109150	6.8	10
496	Tarnished silver/copper surfaces reduction using remote helium plasma at atmospheric pressure studied by means of high-resolution synchrotron x-ray photoelectron microscopy. <i>Corrosion Science</i> , 2021 , 178, 109074	6.8	2
495	Electrochemical and Surface Characterization Study on the Corrosion Inhibition of Mild Steel 1030 by the Cationic Surfactant Cetrimonium Trans-4-hydroxy-cinnamate. <i>ACS Omega</i> , 2021 , 6, 1941-1952	3.9	4
494	Dual-action self-healing protective coatings with photothermal responsive corrosion inhibitor nanocontainers. <i>Chemical Engineering Journal</i> , 2021 , 404, 127118	14.7	43
493	Effect of Sr Addition to a Modified AA3003 on Microstructural and Corrosion Properties. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 021506	3.9	0
492	Mechanisms of Li Leaching from a LiCO ₃ Based Primer / Topcoat Paint System. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3054-3056	0.5	
491	On the relationship between the plasma characteristics, the microstructure and the optical properties of reactively sputtered TiO ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 415202	3	0
490	Australasian microtektites across the Antarctic continent: Evidence from the Sør Rondane Mountain range (East Antarctica). <i>Geoscience Frontiers</i> , 2021 , 12, 101153	6	4
489	Investigation of the importance of heat transfer during thin electrolyte formation in atmospheric corrosion using a novel experimental approach. <i>Corrosion Science</i> , 2021 , 189, 109542	6.8	0
488	Effect of Ce(III) and Ce(IV) ions on the structure and active protection of PMMA-silica coatings on AA7075 alloy. <i>Corrosion Science</i> , 2021 , 189, 109581	6.8	6
487	Nanosopic and in-situ cross-sectional observations of Li-based conversion coating formation using liquid-phase TEM. <i>Npj Materials Degradation</i> , 2021 , 5,	5.7	3

486	Monitoring initial contact of UV-cured organic coatings with aqueous solutions using odd random phase multisine electrochemical impedance spectroscopy. <i>Corrosion Science</i> , 2021 , 190, 109713	6.8	2
485	Influence of austenitisation temperatures during hot stamping on the local electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si. <i>Corrosion Science</i> , 2021 , 190, 109673	6.8	5
484	Laterally-resolved formation mechanism of a lithium-based conversion layer at the matrix and intermetallic particles in aerospace aluminium alloys. <i>Corrosion Science</i> , 2021 , 190, 109651	6.8	2
483	Li leaching from Li carbonate-primer: Transport pathway development from the scribe edge of a primer/topcoat system. <i>Progress in Organic Coatings</i> , 2021 , 158, 106284	4.8	1
482	Scrutinizing the importance of surface chemistry versus surface roughness for aluminium / sol-gel film adhesion. <i>Surfaces and Interfaces</i> , 2021 , 26, 101417	4.1	1
481	Effect of hydrogen peroxide on bovine serum albumin adsorption on Ti6Al4V alloy: A scanning Kelvin probe force microscopy study. <i>Applied Surface Science</i> , 2021 , 563, 150364	6.7	6
480	A combined XPS/ToF-SIMS approach for the 3D compositional characterization of Zr-based conversion of galvanized steel. <i>Applied Surface Science</i> , 2021 , 562, 150166	6.7	5
479	Challenges to electrochemical evaluation of nanometric sandwiched thin specimens using liquid cells designed for application in liquid-phase TEM corrosion studies. <i>Corrosion Science</i> , 2021 , 192, 109864	6.8	0
478	Dealloying-driven local corrosion by intermetallic constituent particles and dispersoids in aerospace aluminium alloys. <i>Corrosion Science</i> , 2020 , 177, 108947	6.8	27
477	In-situ nanoscopic observations of dealloying-driven local corrosion from surface initiation to in-depth propagation. <i>Corrosion Science</i> , 2020 , 177, 108912	6.8	23
476	Electrochemical and Raman analysis of the corrosion products formed over hot dip galvanised steel wires exposed in different environmental sites. <i>Corrosion Engineering Science and Technology</i> , 2020 , 55, 562-573	1.7	0
475	Towards understanding and prediction of atmospheric corrosion of an Fe/Cu corrosion sensor via machine learning. <i>Corrosion Science</i> , 2020 , 170, 108697	6.8	27
474	Morphology optimization and assessment of the performance limits of high-porosity nanostructured polymer monolithic capillary columns for proteomics analysis. <i>Analytica Chimica Acta</i> , 2020 , 1124, 176-183	6.6	8
473	Performance of laterally elongated pillar array columns in capillary electrochromatography mode. <i>Electrophoresis</i> , 2020 , 41, 1287-1295	3.6	4
472	50 shades of colour: how thickness, iron redox and manganese/antimony contents influence perceived and intrinsic colour in Roman glass. <i>Archaeological and Anthropological Sciences</i> , 2020 , 12, 1	1.8	7
471	The role of hydrogen bond donor and water content on the electrochemical reduction of Ni from solvents - an experimental and modelling study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16125-16135	3.6	7
470	The effect of time evolution and timing of the electrochemical data recording of corrosion inhibitor protection of hot-dip galvanized steel. <i>Corrosion Science</i> , 2020 , 173, 108780	6.8	13
469	Molecular Characterization of Bonding Interactions at the Buried Steel Oxide/Aminopropyl Triethoxysilane Interface Accessed by Ar Cluster Sputtering. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13150-13161	3.8	2

468	Nanoscale Elastocapillary Effect Induced by Thin-Liquid-Film Instability. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2751-2758	6.4	6
467	Studying Chemisorption at Metal-Polymer Interfaces by Complementary Use of Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy (ATR-FTIR) in the Kretschmann Geometry and Visible-Infrared Sum-Frequency Generation Spectroscopy (SFG). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7127-7138	3.8	8
466	Moving Boundary Simulation of Iron-Zinc Sacrificial Corrosion under Dynamic Electrolyte Thickness Based on Real-Time Monitoring Data. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 041503	3.9	8
465	Electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si before and after hot-stamping process investigated by means of scanning Kelvin probe microscopy. <i>Corrosion Science</i> , 2020 , 174, 108811	6.8	7
464	A Review on Adhesively Bonded Aluminium Joints in the Automotive Industry. <i>Metals</i> , 2020 , 10, 730	2.3	26
463	Effect of organic additives in fluoacid-based Ti and Zr-treatments for galvanized steel on the stability of a polymer coated interface. <i>Progress in Organic Coatings</i> , 2020 , 146, 105738	4.8	2
462	Molecular Characterization of Multiple Bonding Interactions at the Steel Oxide-Aminopropyl triethoxysilane Interface by ToF-SIMS. <i>ACS Omega</i> , 2020 , 5, 692-700	3.9	7
461	Cross-sectional characterization of the conversion layer formed on AA2024-T3 by a lithium-leaching coating. <i>Applied Surface Science</i> , 2020 , 512, 145665	6.7	8
460	Effect of zirconium-based conversion treatments of zinc, aluminium and magnesium on the chemisorption of ester-functionalized molecules. <i>Applied Surface Science</i> , 2020 , 508, 145199	6.7	7
459	ATR-FTIR in Kretschmann configuration integrated with electrochemical cell as in situ interfacial sensitive tool to study corrosion inhibitors for magnesium substrates. <i>Electrochimica Acta</i> , 2020 , 345, 136166	6.7	17
458	Hydrogen chloride removal from hydrogen gas by adsorption on hydrated ion-exchanged zeolites. <i>Chemical Engineering Journal</i> , 2020 , 381, 122512	14.7	18
457	Nanorods grown by copper anodizing in sodium carbonate. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 857, 113628	4.1	7
456	On the use of AES data analysis to determine local enrichments of conversion coating elements at intermetallic particles on rolled Al. <i>Surface and Interface Analysis</i> , 2020 , 52, 174-184	1.5	
455	Application of In Situ Liquid Cell Transmission Electron Microscopy in Corrosion Studies: A Critical Review of Challenges and Achievements. <i>Corrosion</i> , 2020 , 76, 4-17	1.8	13
454	Chemisorption of polyester coatings on zirconium-based conversion coated multi-metal substrates and their stability in aqueous environment. <i>Applied Surface Science</i> , 2020 , 508, 144771	6.7	14
453	A Review on Anodizing of Aerospace Aluminum Alloys for Corrosion Protection. <i>Coatings</i> , 2020 , 10, 1106	6.9	21
452	Water permeation in coatings 2020 , 17, 1437-1445		1
451	Morphology and Microstructure Evolution of Gold Nanostructures in the Limited Volume Porous Matrices. <i>Sensors</i> , 2020 , 20,	3.8	6

450	Corrosion Inhibition of Mild Steel by Cetrimonium -4-Hydroxy Cinnamate: Entrapment and Delivery of the Anion Inhibitor through Speciation and Micellar Formation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9886-9892	6.4	8
449	Effect of surface roughness and chemistry on the adhesion and durability of a steel-epoxy adhesive interface. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 96, 102450	3.4	29
448	Effect of simulated brazing on the microstructure and corrosion behavior of twin roll cast AA3003. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020 , 71, 60-69	1.6	2
447	Evaluation of particle and bed integrity of aqueous size-exclusion columns packed with sub-2 μ m particles operated at high pressure. <i>Journal of Chromatography A</i> , 2020 , 1621, 461064	4.5	2
446	In Situ EC-STM Study and DFT Modeling of the Adsorption of Glycerol on Cu(111) in NaOH Solution. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22228-22238	3.8	4
445	Water distribution at the electrified interface of deep eutectic solvents. <i>Nanoscale Advances</i> , 2019 , 1, 2847-2856	5.1	12
444	Corrosion protection of Cu by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 060902	2.9	6
443	Study of peak capacities generated by a porous layered radially elongated pillar array column coupled to a nano-LC system. <i>Analyst, The</i> , 2019 , 144, 1809-1817	5	4
442	A Complementary Electrochemical Approach for Time-Resolved Evaluation of Corrosion Inhibitor Performance. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3220-C3232	3.9	6
441	Electrophysical Properties of Sr ₂ FeMoO ₆ Ceramics with Dielectric Shells. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2019 , 21-40	0.2	
440	Probing the formation and degradation of chemical interactions from model molecule/metal oxide to buried polymer/metal oxide interfaces. <i>Npj Materials Degradation</i> , 2019 , 3,	5.7	27
439	Li leaching from Lithium Carbonate-primer: An emerging perspective of transport pathway development. <i>Progress in Organic Coatings</i> , 2019 , 134, 103-118	4.8	8
438	N-Doped TiO Photocatalyst Coatings Synthesized by a Cold Atmospheric Plasma. <i>Langmuir</i> , 2019 , 35, 7161-7168	4	20
437	Numerical interpretation to differentiate hydrogen trapping effects in iron alloys in the Devanathan-Stachurski permeation cell. <i>Corrosion Science</i> , 2019 , 154, 231-238	6.8	4
436	Effect of Zn on the grain boundary precipitates and resulting alkaline etching of recycled Al-Mg-Si-Cu alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 435-442	5.7	10
435	Study of the hydrogen uptake in deformed steel using the microcapillary cell technique. <i>Corrosion Science</i> , 2019 , 155, 55-66	6.8	8
434	Highly Robust MOF Polymeric Beads with a Controllable Size for Molecular Separations. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13694-13703	9.5	26
433	Effect of the shear layer on the etching behavior of 6060 aluminum extrusion alloys. <i>Surface and Interface Analysis</i> , 2019 , 51, 1251-1259	1.5	0

432	Chromatographic study of the structural properties of mesoporous silica layers deposited on radially elongated pillars. <i>Journal of Chromatography A</i> , 2019 , 1595, 58-65	4.5	3
431	Durable lubricant-infused anodic aluminum oxide surfaces with high-aspect-ratio nanochannels. <i>Chemical Engineering Journal</i> , 2019 , 368, 138-147	14.7	28
430	On the making, mixing and trading of glass from the Roman military fort at Oudenburg (Belgium). <i>Archaeological and Anthropological Sciences</i> , 2019 , 11, 2385-2405	1.8	4
429	Influence of water content and applied potential on the electrodeposition of Ni coatings from deep eutectic solvents. <i>Electrochimica Acta</i> , 2019 , 319, 690-704	6.7	26
428	An in situ spectro-electrochemical monitoring of aqueous effects on polymer/metal oxide interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113311	4.1	13
427	Probing the Metal Oxide/Polymer Molecular Hybrid Interfaces with Nanoscale Resolution Using AFM-IR. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26178-26184	3.8	11
426	Dual Role of Lithium on the Structure and Self-Healing Ability of PMMA-Silica Coatings on AA7075 Alloy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40629-40641	9.5	13
425	To be purple or not to be purple? How different production parameters influence colour and redox in manganese containing glass. <i>Journal of Archaeological Science: Reports</i> , 2019 , 27, 101975	0.7	4
424	Active corrosion protection of various aluminium alloys by lithium-leaching coatings. <i>Surface and Interface Analysis</i> , 2019 , 51, 1276-1287	1.5	14
423	The chemical throwing power of lithium-based inhibitors from organic coatings on AA2024-T3. <i>Corrosion Science</i> , 2019 , 150, 194-206	6.8	15
422	Molybdate-phosphate conversion coatings to protect steel in a simulated concrete pore solution. <i>Surface and Coatings Technology</i> , 2019 , 361, 280-291	4.4	12
421	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. <i>Progress in Organic Coatings</i> , 2018 , 119, 65-75	4.8	23
420	Role of Al ₂ O ₃ inclusions on the localized corrosion of Q460NH weathering steel in marine environment. <i>Corrosion Science</i> , 2018 , 138, 96-104	6.8	72
419	Mechanism of Passive Layer Formation on AA2024-T3 from Alkaline Lithium Carbonate Solutions in the Presence of Sodium Chloride. <i>Journal of the Electrochemical Society</i> , 2018 , 165, C60-C70	3.9	22
418	In situ electrochromic efficiency of a nickel oxide thin film: origin of electrochemical process and electrochromic degradation. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 646-653	7.1	55
417	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters [Part I] The entry side. <i>Electrochimica Acta</i> , 2018 , 262, 57-65	6.7	14
416	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters [Part II] The exit side. <i>Electrochimica Acta</i> , 2018 , 262, 153-161	6.7	13
415	Odd Random Phase Electrochemical Impedance Spectroscopy to Study the Corrosion Behavior of Hot Dip Zn and Zn-Alloy Coated Steel Wires in Sodium Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2018 , 165, C246-C257	3.9	17

4 ¹⁴	Development of novel surface treatments for corrosion protection of aluminum: self-repairing coatings. <i>Corrosion Reviews</i> , 2018 , 36, 55-64	3.2	10
4 ¹³	On the use of instantaneous impedance for post-electrochemical treatment analysis. <i>Electrochemistry Communications</i> , 2018 , 93, 187-190	5.1	3
4 ¹²	On the use of SKPFM for in situ studies of the repassivation of the native oxide film on aluminium in air. <i>Electrochemistry Communications</i> , 2018 , 93, 162-165	5.1	13
4 ¹¹	The use of odd random phase electrochemical impedance spectroscopy to study lithium-based corrosion inhibition by active protective coatings. <i>Electrochimica Acta</i> , 2018 , 278, 363-373	6.7	20
4 ¹⁰	In-situ ATR-FTIR for dynamic analysis of superhydrophobic breakdown on nanostructured silicon surfaces. <i>Scientific Reports</i> , 2018 , 8, 11637	4.9	12
4 ⁰⁹	Atmospheric pressure dielectric barrier discharge synthesis of morphology-controllable TiO ₂ films with enhanced photocatalytic activity. <i>Thin Solid Films</i> , 2018 , 664, 90-99	2.2	12
4 ⁰⁸	Comparison of Electrochemical and Thermal Evaluation of Hydrogen Uptake in Steel Alloys Having Different Microstructures. <i>Journal of the Electrochemical Society</i> , 2018 , 165, C787-C793	3.9	5
4 ⁰⁷	A modelling approach on the impact of an oxide layer on the hydrogen permeation through iron membranes in the Devanathan-Stachurski cell. <i>Electrochimica Acta</i> , 2018 , 286, 139-147	6.7	4
4 ⁰⁶	Role of Si in the Anodizing Behavior of Al-Si Alloys: Additive Manufactured and Cast Al-Si10-Mg. <i>Journal of the Electrochemical Society</i> , 2018 , 165, C532-C541	3.9	12
4 ⁰⁵	Water Adsorption and Dissociation on Polycrystalline Copper Oxides: Effects of Environmental Contamination and Experimental Protocol. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1000-1008	3.4	42
4 ⁰⁴	Advanced (In Situ) Surface Analysis of Organic Coating/Metal Oxide Interactions for Corrosion Protection of Passivated Metals 2018 , 1-17		2
4 ⁰³	Exploring Wetting Dynamics on Superhydrophobic Nanopatterned Surfaces Using ATR-FTIR. <i>Solid State Phenomena</i> , 2018 , 282, 175-181	0.4	1
4 ⁰²	Particulate barium tracing of significant mesopelagic carbon remineralisation in the North Atlantic. <i>Biogeosciences</i> , 2018 , 15, 2289-2307	4.6	12
4 ⁰¹	Atomistic Insight into the Electrochemical Double Layer of Choline Chloride-Urea Deep Eutectic Solvents: Clustered Interfacial Structuring. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6296-6304	6.4	31
4 ⁰⁰	An in-situ XANES investigation of the interactions between iron, manganese and antimony in silicate melts. <i>Journal of Non-Crystalline Solids</i> , 2018 , 502, 227-235	3.9	4
399	Fluoride-Induced Interfacial Adhesion Loss of Nanoporous Anodic Aluminum Oxide Templates in Aerospace Structures. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6139-6149	5.6	5
398	On the Control and Effect of Water Content during the Electrodeposition of Ni Nanostructures from Deep Eutectic Solvents. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23129-23142	3.8	20
397	In Situ Methanol Adsorption on Aluminum Oxide Monitored by a Combined ORP-EIS and ATR-FTIR Kretschmann Setup. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21963-21973	3.8	5

396	On the importance of irreversibility of corrosion inhibitors for active coating protection of AA2024-T3. <i>Corrosion Science</i> , 2018 , 140, 272-285	6.8	49
395	Triple-Action Self-Healing Protective Coatings Based on Shape Memory Polymers Containing Dual-Function Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23369-23379	9.5	103
394	Deposition of aminosilane coatings on porous Al ₂ O ₃ microspheres by means of dielectric barrier discharges. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600211	3.4	5
393	The influence of a Zr-based conversion treatment on interfacial bonding strength and stability of epoxy coated carbon steel. <i>Progress in Organic Coatings</i> , 2017 , 105, 29-36	4.8	33
392	Chemical and physical effect of SiO ₂ and TiO ₂ nanoparticles on highly hydrophobic fluorocarbon hybrid coatings synthesized by atmospheric plasma. <i>Surface and Coatings Technology</i> , 2017 , 315, 274-282	4.4	12
391	Improved Corrosion Resistance of Aluminum Brazing Sheet by a Post-Brazing Heat Treatment. <i>Corrosion</i> , 2017 , 73, 379-393	1.8	6
390	Development of Self-Healing Coatings with Micro Capsules for Corrosion Protection of Metal. <i>ECS Transactions</i> , 2017 , 75, 89-99	1	6
389	Comprehensive Study of the Electrodeposition of Nickel Nanostructures from Deep Eutectic Solvents: Self-Limiting Growth by Electrolysis of Residual Water. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9337-9347	3.8	60
388	Corrosion protection properties and interfacial adhesion mechanism of an epoxy/polyamide coating applied on the steel surface decorated with cerium oxide nanofilm: Complementary experimental, molecular dynamics (MD) and first principle quantum mechanics (QM) simulation methods. <i>Applied Surface Science</i> , 2017 , 419, 650-669	6.7	53
387	The Kinetics of Formation and Decomposition of Austenite in Relation to Carbide Morphology. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 828-840	2.3	2
386	Growth mechanisms of spatially separated copper dendrites in pores of a SiO ₂ template. <i>Philosophical Magazine</i> , 2017 , 97, 2268-2283	1.6	30
385	Electrochemical Evaluation of Corrosion Inhibiting Layers Formed in a Defect from Lithium-Leaching Organic Coatings. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C396-C406	3.9	33
384	Towards Cr(VI)-free anodization of aluminum alloys for aerospace adhesive bonding applications: A review. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 465-482	4.5	33
383	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. <i>Scientific Reports</i> , 2017 , 7, 45123	4.9	25
382	Superhydrophobic Breakdown of Nanostructured Surfaces Characterized in Situ Using ATR-FTIR. <i>Langmuir</i> , 2017 , 33, 3601-3609	4	16
381	Adhesive Bonding and Corrosion Performance Investigated as a Function of Aluminum Oxide Chemistry and Adhesives. <i>Corrosion</i> , 2017 , 73, 903-914	1.8	8
380	Deposition of photocatalytic anatase titanium dioxide films by atmospheric dielectric barrier discharge. <i>Surface and Coatings Technology</i> , 2017 , 310, 173-179	4.4	20
379	Dual-action smart coatings with a self-healing superhydrophobic surface and anti-corrosion properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2355-2364	13	316

378	Effect of inclusions modified by rare earth elements (Ce, La) on localized marine corrosion in Q460NH weathering steel. <i>Corrosion Science</i> , 2017 , 129, 82-90	6.8	104
377	Development of an Electrochemical Procedure for Monitoring Hydrogen Sorption/Desorption in Steel. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C747-C757	3.9	6
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