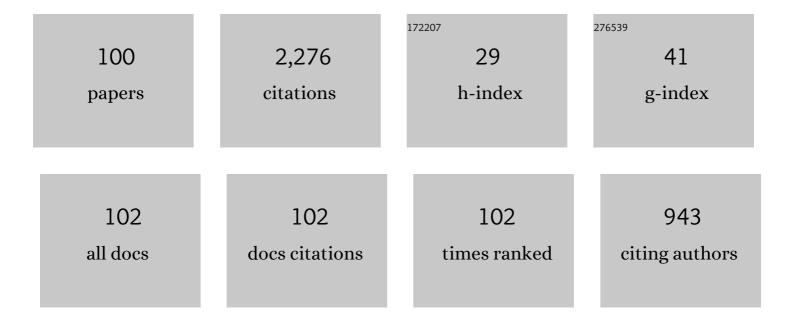
List of Publications by Year in descending order

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ΝΑ-ΗΑΙ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Electrochemical measurements used for assessment of corrosion and protection of metallic materials in the field: A critical review. Journal of Materials Science and Technology, 2022, 112, 151-183. | 5.6 | 134 |
| 2 | Determination of corrosion types from electrochemical noise by phase space reconstruction theory. Electrochemistry Communications, 2012, 15, 88-92. | 2.3 | 93 |
| 3 | A mechanistic study on thiosulfate-enhanced passivity degradation of Alloy 800 in chloride solutions. Electrochimica Acta, 2013, 111, 510-525. | 2.6 | 81 |
| 4 | Review—Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. Journal of the Electrochemical Society, 2020, 167, 081507. | 1.3 | 78 |
| 5 | Electrochemical noise: a review of experimental setup, instrumentation and DC removal. Russian Journal of Electrochemistry, 2015, 51, 593-601. | 0.3 | 73 |
| 6 | Corrosion behavior of tinplate in NaCl solution. Transactions of Nonferrous Metals Society of China, 2012, 22, 717-724. | 1.7 | 67 |
| 7 | Review-material degradation assessed by digital image processing: Fundamentals, progresses, and challenges. Journal of Materials Science and Technology, 2020, 53, 146-162. | 5.6 | 54 |
| 8 | Measuring atmospheric corrosion with electrochemical noise: A review of contemporary methods. Measurement: Journal of the International Measurement Confederation, 2019, 138, 54-79. | 2.5 | 49 |
| 9 | Monododecyl Phosphate Film on LY12 Aluminum Alloy: pH-Controlled Self-Assembly and Corrosion Resistance. Journal of the Electrochemical Society, 2020, 167, 161510. | 1.3 | 49 |
| 10 | Review of micro-scale and atomic-scale corrosion mechanisms of second phases in aluminum alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 3205-3227. | 1.7 | 48 |
| 11 | Microstructure modification and improving corrosion resistance of laser surface quenched nickel–aluminum bronze alloy. Corrosion Science, 2020, 174, 108744. | 3.0 | 44 |
| 12 | Detection of corrosion-induced metal release from tinplate cans using a novel electrochemical sensor and inductively coupled plasma mass spectrometer. Journal of Food Engineering, 2012, 113, 11-18. | 2.7 | 42 |
| 13 | Review—Factors Influencing Sulfur Induced Corrosion on the Secondary Side in Pressurized Water Reactors (PWRs). Journal of the Electrochemical Society, 2019, 166, C49-C64. | 1.3 | 42 |
| 14 | Assessing atmospheric corrosion of metals by a novel electrochemical sensor combining with a thin insulating net using electrochemical noise technique. Sensors and Actuators B: Chemical, 2017, 252, 353-358. | 4.0 | 41 |
| 15 | Sensing corrosion within an artificial defect in organic coating using SECM. Sensors and Actuators B: Chemical, 2019, 280, 235-242. | 4.0 | 41 |
| 16 | Detection of Atmospheric Corrosion of Aluminum Alloys by Electrochemical Probes: Theoretical Analysis and Experimental Tests. Journal of the Electrochemical Society, 2019, 166, B1000-B1009. | 1.3 | 40 |
| 17 | pH Effect on Sulfur-Induced Passivity Degradation of Alloy 800 in Simulated Crevice Chemistries. Journal of the Electrochemical Society, 2014, 161, C201-C214. | 1.3 | 38 |
| 18 | Evaluation of temperature effect on the corrosion process of 304 stainless steel in high temperature water with electrochemical noise. Materials and Design, 2015, 82, 155-163. | 3.3 | 38 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Combating marine corrosion on engineered oxide surface by repelling, blocking and capturing Clâ [~] ': A mini review. Corrosion Communications, 2021, 2, 1-7. | 2.7 | 38 |
| 20 | Sulfur induced corrosion (SIC) mechanism of steam generator (SG) tubing at micro scale: A critical review. Materials Chemistry and Physics, 2019, 233, 133-140. | 2.0 | 36 |
| 21 | Spray coated superamphiphobic surface with hot water repellency and durable corrosion resistance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 596, 124750. | 2.3 | 36 |
| 22 | Comparison Study of Self-Cleaning, Anti-Icing, and Durable Corrosion Resistance of Superhydrophobic and Lubricant-Infused Ultraslippery Surfaces. Langmuir, 2021, 37, 11061-11071. | 1.6 | 35 |
| 23 | Fast evaluation of degradation degree of organic coatings by analyzing electrochemical impedance spectroscopy data. Transactions of Tianjin University, 2012, 18, 15-20. | 3.3 | 34 |
| 24 | Identifying defect levels in organic coatings with electrochemical noise (EN) measured in Single Cell (SC) mode. Progress in Organic Coatings, 2019, 126, 53-61. | 1.9 | 33 |
| 25 | Review—Electrochemical Probes and Sensors Designed for Time-Dependent Atmospheric Corrosion Monitoring: Fundamentals, Progress, and Challenges. Journal of the Electrochemical Society, 2020, 167, 037513. | 1.3 | 33 |
| 26 | Metal pitting corrosion characterized by scanning acoustic microscopy and binary image processing. Corrosion Science, 2020, 170, 108685. | 3.0 | 33 |
| 27 | Covalent surface modification of LY12 aluminum alloy surface by self-assembly dodecyl phosphate film towards corrosion protection. Progress in Organic Coatings, 2020, 143, 105638. | 1.9 | 32 |
| 28 | Understanding the interaction of thiosulfate with Alloy 800 in aqueous chloride solutions using SECM. Journal of Electroanalytical Chemistry, 2015, 744, 77-84. | 1.9 | 31 |
| 29 | Semiconductivity conversion of Alloy 800 in sulphate, thiosulphate, and chloride solutions. Corrosion Science, 2014, 87, 265-277. | 3.0 | 30 |
| 30 | Detection of SCC of 304 NG stainless steel in an acidic NaCl solution using electrochemical noise based on chaos and wavelet analysis. Russian Journal of Electrochemistry, 2016, 52, 560-575. | 0.3 | 30 |
| 31 | Enhancing the Stability of Passive Film on 304 SS by Chemical Modification in Alkaline Phosphate–Molybdate Solutions. Transactions of Tianjin University, 2020, 26, 135-141. | 3.3 | 29 |
| 32 | Semiconductivity of steam generator tubing alloys in simulated crevice chemistries containing lead and sulphur. Corrosion Engineering Science and Technology, 2016, 51, 37-50. | 0.7 | 28 |
| 33 | Factors Influencing Passivity Breakdown on UNS N08800 in Neutral Chloride and Thiosulfate Solutions. Journal of the Electrochemical Society, 2017, 164, C94-C103. | 1.3 | 28 |
| 34 | A mechanistic study on sulfur-induced passivity degradation on Alloy 800 in simulated alkaline crevice chemistries at temperatures ranging from 21 ŰC to 300 ŰC. Corrosion Science, 2015, 100, 504-516. | 3.0 | 27 |
| 35 | Detection of corrosion degradation using electrochemical noise (EN): review of signal processing methods for identifying corrosion forms. Corrosion Engineering Science and Technology, 0, , 1-18. | 0.7 | 27 |
| 36 | Corrosion Behavior of Tinplates in a Functional Beverage. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2012, 28, 121-126. | 2.2 | 25 |

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| 37 | Temperature dependence of passivity degradation on UNS N08800 in near neutral crevice chemistries containing thiosulphate. Corrosion Science, 2018, 140, 260-271. | 3.0 | 24 |
| 38 | Fabrication of graded surfacing layer for the repair of failed H13 mandrel using submerged arc welding technology. Journal of Materials Processing Technology, 2018, 262, 182-188. | 3.1 | 24 |
| 39 | Atmospheric corrosion assessed from corrosion images using fuzzy Kolmogorov–Sinai entropy. Corrosion Science, 2017, 120, 251-256. | 3.0 | 23 |
| 40 | Semiconductivity Conversion of Passive Films on Alloy 800 in Chloride Solutions Containing Various Concentrations of Thiosulfate. Journal of the Electrochemical Society, 2015, 162, C482-C486. | 1.3 | 21 |
| 41 | Correlation between Passivity Breakdown and Composition of Passive Film Formed on Alloy 690ÂStudied by Sputtering XPS and FIB-HRTEM. Journal of the Electrochemical Society, 2019, 166, C332-C344. | 1.3 | 21 |
| 42 | The Significance of Correlation Dimension Obtained from Electrochemical Noise. Electrochemistry, 2012, 80, 907-912. | 0.6 | 19 |
| 43 | Self-assembled (3-mercaptopropyl)trimethoxylsilane film modified with La2O3 nanoparticles for brass corrosion protection in NaCl solution. Journal of Alloys and Compounds, 2017, 702, 60-67. | 2.8 | 19 |
| 44 | Passivity degradation of alloy 800 in simulated crevice chemistries. Transactions of Tianjin University, 2015, 21, 234-243. | 3.3 | 18 |
| 45 | Sensing Atmospheric Corrosion of Carbon Steel and Low-Alloy Steel Using the Electrochemical Noise Technique: Effects of Weather Conditions. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 1100-1113. | 0.3 | 18 |
| 46 | Field Corrosion Detection of Nuclear Materials using Electrochemical Noise Techinique. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 340-346. | 0.3 | 18 |
| 47 | Degradation mechanism of lacquered tinplate in energy drink by in-situ EIS and EN. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 367-372. | 0.4 | 16 |
| 48 | Passivation Degradation of Alloy 800 in Boiling Solution Containing Thiosulphate. Electrochimica Acta, 2017, 233, 13-25. | 2.6 | 16 |
| 49 | Reliability of the estimation of uniform corrosion rate of Q235B steel under simulated marine atmospheric conditions by electrochemical noise (EN) analyses. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106946. | 2.5 | 16 |
| 50 | The Corrosion Behavior of Lacquered Tinplate in Functional Beverage. Advanced Materials Research, 0, 233-235, 1747-1751. | 0.3 | 15 |
| 51 | Mechanical Properties and Corrosion Resistance of SA508-4 Low Carbon Alloy Steel. Electrochemistry, 2013, 81, 262-268. | 0.6 | 15 |
| 52 | Experimental and computational study of zinc coordinated 1-hydroxyethylidene-1,1-diphosphonic acid self-assembled film on steel surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 126009. | 2.3 | 15 |
| 53 | Insights into the selective phase corrosion of as cast NiAl bronze alloy: Effect of electrical properties of each phase's protective film. Journal of Alloys and Compounds, 2022, 891, 162008. | 2.8 | 15 |
| 54 | Degradation process of coated tinplate by phase space reconstruction theory. Transactions of Tianjin University, 2013, 19, 92-97. | 3.3 | 14 |

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| 55 | Detection of the corrosion degree of beverage cans using a novel electrochemical sensor. Anti-Corrosion Methods and Materials, 2013, 60, 153-159. | 0.6 | 14 |
| 56 | Pitting growth rate on Alloy 800 in chloride solutions containing thiosulphate: image analysis assessment. Corrosion Engineering Science and Technology, 2018, 53, 206-213. | 0.7 | 14 |
| 57 | Corrosion detection of tinplate cans containing coffee using EIS/EN sensor. Journal of Central South University, 2014, 21, 76-82. | 1.2 | 13 |
| 58 | A mechanistic study of sulfur-induced passivity degradation of Alloy 800 in a simulated alkaline crevice environment at 300 °C. Journal of Solid State Electrochemistry, 2015, 19, 3567-3578. | 1.2 | 13 |
| 59 | Corrosion Behavior of Alloy 690 in Simulated Alkaline Water Chemistries Containing Sulfur at 300 â,,ƒ. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 467-475. | 2.2 | 13 |
| 60 | Characterization of pH Effect on Corrosion Resistance of Nuclear Steam Generator Tubing Alloy by In-situ Scanning Electrochemical Microscopy. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2014, 30, 59-66. | 2.2 | 12 |
| 61 | Characterization of passive film formed on 304 SS in simulated alkaline water chemistries containing sulfur at 300°C. Transactions of Tianjin University, 2015, 21, 554-561. | 3.3 | 12 |
| 62 | Electrochemical noise monitoring of the atmospheric corrosion of steels: identifying corrosion form using wavelet analysis. Corrosion Engineering Science and Technology, 0, , 1-9. | 0.7 | 11 |
| 63 | Tempering effects on the microstructure and properties of submerged arc surfacing layers of H13 steel. Journal of Materials Processing Technology, 2019, 269, 26-34. | 3.1 | 11 |
| 64 | Corrosion process detection of tinplate in deaerated functional beverage by EIS. Transactions of Tianjin University, 2013, 19, 235-240. | 3.3 | 10 |
| 65 | Hydrogen-enhanced Surface Reactivity of X80 Pipeline Steel observed by Scanning Electrochemical Microscopy. Electrochemistry, 2016, 84, 238-242. | 0.6 | 10 |
| 66 | Passivity degradation of nuclear materials in reduced sulfur environments: A review. Transactions of Tianjin University, 2016, 22, 189-201. | 3.3 | 10 |
| 67 | Development of an electrochemical sensor and measuring the shelf life of tinplate cans. Measurement: Journal of the International Measurement Confederation, 2019, 134, 500-508. | 2.5 | 10 |
| 68 | Identifying sulfide stress cracking stages on a HSLA pipeline steel in H2S environment by electrochemical noise. Journal of Electroanalytical Chemistry, 2020, 876, 114480. | 1.9 | 10 |
| 69 | AMechanistic Study on Semiconductivity Conversion of Passive Films under Varying Sulfate to Chloride Concentration Ratios. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2014, 30, 1465-1473. | 2.2 | 9 |
| 70 | Quantum chemical studies on the inhibitive effect of silane derivatives. Progress in Organic Coatings, 2019, 126, 92-96. | 1.9 | 9 |
| 71 | A novel electrochemical noise sensor applied to detect food safety. Russian Journal of Electrochemistry, 2014, 50, 599-602. | 0.3 | 8 |
| 72 | Detection of SCC on 304 stainless steel in neutral thiosulfate solutions using electrochemical noise based on chaos theory. Anti-Corrosion Methods and Materials, 2017, 64, 241-251. | 0.6 | 8 |

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| 73 | Atmospheric corrosion monitoring of field-exposed Q235B and T91 steels in Zhoushan offshore environment using electrochemical probes. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1433-1440. | 0.4 | 8 |
| 74 | Identifying defect size in organic coatings by electrochemical noise, galvanostatic step and potentiostatic step techniques. Journal of Electroanalytical Chemistry, 2020, 856, 113596. | 1.9 | 8 |
| 75 | Effect of chloride ions in acid and salt solutions on self-repairing ability and corrosion performance of titanium dioxide-fluorosiloxane superhydrophobic coating. Progress in Organic Coatings, 2020, 146, 105675. | 1.9 | 8 |
| 76 | Analysis of failure causes of epoxy-phenolic coated tinplate after boiling sterilization. Engineering Failure Analysis, 2022, 135, 106129. | 1.8 | 8 |
| 77 | Electrochemical Noise Study on the Corrosion Behavior of 304NG Stainless Steel in High Temperature Water. Electrochemistry, 2014, 82, 647-653. | 0.6 | 7 |
| 78 | Monitoring the Diffusion Layer During Passive Film Breakdown on Alloy 800 with Digital Holography. Acta Metallurgica Sinica (English Letters), 2015, 28, 1170-1174. | 1.5 | 7 |
| 79 | Effects of reduced sulfur on passive film properties of steam generator (SG) tubing: an overview. Anti-Corrosion Methods and Materials, 2019, 66, 317-326. | 0.6 | 7 |
| 80 | Measuring the atmospheric corrosion of Q235B and T91 steels using gray value, wavelet analysis and fuzzy Kolmogorov–Sinai entropy. Anti-Corrosion Methods and Materials, 2019, 66, 621-630. | 0.6 | 7 |
| 81 | A novel approach used to study the corrosion susceptibility of metallic materials at a dynamic seawater/air interface. Corrosion Communications, 2022, 6, 62-66. | 2.7 | 7 |
| 82 | Pitting Corrosion Mechanism of Alloy 800 in Simulated Crevice Chemistries Containing Thiosulfate. Electrochemistry, 2016, 84, 585-596. | 0.6 | 6 |
| 83 | The Kolmogorov–Sinai Entropy in the Setting of Fuzzy Sets for Atmospheric Corrosion Image Texture Analysis. Russian Journal of Electrochemistry, 2018, 54, 867-872. | 0.3 | 6 |
| 84 | Degradation behavior of Ti-6Al-4V alloys for dental applications in acidic artificial saliva containing fluoride ion. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 926-934. | 0.4 | 5 |
| 85 | In-situ Study the Corrosion Degradation Mechanism of Tinplate in Salty Water by Scanning Electrochemical Microscopy. Russian Journal of Electrochemistry, 2018, 54, 216-223. | 0.3 | 5 |
| 86 | Quantification of the Atmospheric Corrosion of 304 and 2205 Stainless Steels Using Electrochemical Probes Based on Thevenin Electrochemical Equivalent Circuit Model. Transactions of Tianjin University, 2020, 26, 218-227. | 3.3 | 5 |
| 87 | Preparation and Thermal Conductivity of Epoxy Resin/Graphene-Fe3O4 Composites. Materials, 2021, 14, 2013. | 1.3 | 5 |
| 88 | Influence of Partial Rust Layer on the Passivation and Chloride-Induced Corrosion of Q235b Steel in the Carbonated Simulated Concrete Pore Solution. Metals, 2022, 12, 1064. | 1.0 | 5 |
| 89 | Characterization of a Stressed Passive Film Using Scanning Electrochemical Microscope and Point Defect Model. Transactions of the Indian Institute of Metals, 2017, 70, 1337-1347. | 0.7 | 4 |
| 90 | Sensing the Instant Corrosivity of Haze Using Electrochemical Probes by Electrochemical Noise Technique. Electrochemistry, 2017, 85, 784-789. | 0.6 | 4 |

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| 91 | Online Monitoring of the Atmospheric Corrosion of Aluminium Alloys Using Electrochemical Noise Technique. Russian Journal of Electrochemistry, 2018, 54, 623-628. | 0.3 | 4 |
| 92 | Effect of Process Parameters on Electrodeposited Nanocrystalline Chromium Coatings Investigated by an Orthogonal Experiment. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 857-866. | 0.3 | 4 |
| 93 | Memory effect and recoverability of passive film degradation of Alloy 800 in simulated crevice chemistry. Nuclear Engineering and Design, 2014, 280, 57-61. | 0.8 | 3 |
| 94 | Preparation and Mechanical Properties of Layered Cu/Gr Composite Film. Coatings, 2021, 11, 502. | 1.2 | 3 |
| 95 | Effect of plastic deformation on mechanical properties and corrosion resistance of nickel-aluminum bronze. Anti-Corrosion Methods and Materials, 2021, 68, 473-480. | 0.6 | 2 |
| 96 | Corrosion analysis in the Al6061-T6 alloy exposed to anhydrous ethanol-gasoline blends using the Stockwell transform and the Shannon energy. Journal of Alloys and Compounds, 2022, 902, 163802. | 2.8 | 2 |
| 97 | Passivation degradation of Alloy 800 on nucleate boiling surface. Corrosion Engineering Science and Technology, 2017, 52, 391-396. | 0.7 | 1 |
| 98 | Effect of Linear Cutting on Corrosion Behaviors in 304 Stainless Steel. Advanced Materials Research, 2011, 189-193, 3570-3574. | 0.3 | 0 |
| 99 | pH Effect on Sulfur-Induced Passivity Degradation of Alloy 800 in Simulated Crevice Chemistries. ECS Transactions, 2014, 58, 55-64. | 0.3 | 0 |
| 100 | Effect of process parameters on the microstructure evolution of laser surface quenched Ni-Al bronze. International Journal of Modern Physics B, 2020, 34, 2040029. | 1.0 | 0 |