# Yiming Jiang

## List of Publications by Year in descending order

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|---|---|---|---|
| 57 papers | 2,351 citations | 279798 23 h-index | 214800 47 g-index |
| 57 all docs | 57 docs citations | 57 times ranked | 1327 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A discussion on evaluation criteria for crevice corrosion of various stainless steels. Journal of Materials Science and Technology, 2021, 64, 29-37. | 10.7 | 14 |
| 2 | A comparative study on the critical pitting criteria of a super ferritic stainless steel at different temperatures in chloride or bromide solution. Corrosion Science, 2021, 183, 109311. | 6.6 | 20 |
| 3 | Investigation on pitting resistance of Sn-containing ferritic stainless steel with solution simulation method. Materials Research Express, 2021, 8, 066524. | 1.6 | 4 |
| 4 | Studies on the degree of sensitization of hyper-duplex stainless steel 2707 at 900â„ƒ using a modified DL-EPR test. Corrosion Science, 2021, 185, 109432. | 6.6 | 18 |
| 5 | Inhibition effect and mechanism of tin on the active dissolution of tin-containing 430LX ferritic stainless steel. Corrosion Science, 2021, 192, 109818. | 6.6 | 2 |
| 6 | Application of potentiostatic pulse technique and statistical analysis in evaluating pitting resistance of aged 317L stainless steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 900-908. | 1.5 | 12 |
| 7 | The Acceleration of Pitting Corrosion of AISI 304 Stainless Steel by Ultraviolet Light Illumination in Acidic Chloride Solution. Journal of the Electrochemical Society, 2020, 167, 021506. | 2.9 | 4 |
| 8 | Use of the Potentiostatic Pulse Technique to Study and Influence Pitting Behavior of 317L Stainless Steel. Journal of the Electrochemical Society, 2020, 167, 041509. | 2.9 | 14 |
| 9 | Influence of Ethanol on Pitting Corrosion Behavior of Stainless Steel for Bioethanol Fermentation Tanks. Frontiers in Chemistry, 2020, 8, 529. | 3.6 | 8 |
| 10 | Highâ€temperature corrosion behaviors of typical nickel alloy coatings in a simulated boiler coal ash/gas environment in the Zhundong region. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 1102-1112. | 1.5 | 3 |
| 11 | Enhancement in intergranular corrosion resistance of the stabilised ultra-pure 430LX ferritic stainless steel by tin addition. Corrosion Engineering Science and Technology, 2020, 55, 232-240. | 1.4 | 4 |
| 12 | Investigation on static and dynamic corrosion behaviors of thermal energy transfer and storage system materials by molten salts in concentrating solar power plants. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 102-109. | 1.5 | 22 |
| 13 | Recent advances and challenges in divalent and multivalent metal electrodes for metalâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 18183-18208. | 10.3 | 139 |
| 14 | Synergistic effect of cold work and hydrogen charging on the pitting susceptibility of 2205 duplex stainless steel. Electrochimica Acta, 2019, 328, 135081. | 5.2 | 22 |
| 15 | Distinction in Corrosion Behaviors of Duplex Stainless Steel 2205 Induced by Different Waveform Alternating Voltages Interference. Journal of the Electrochemical Society, 2019, 166, C454-C467. | 2.9 | 2 |
| 16 | Pitting and etching behaviors occurring in duplex stainless steel 2205 in the presence of alternating voltage interference. Construction and Building Materials, 2019, 202, 877-890. | 7.2 | 15 |
| 17 | The Intergranular Corrosion Susceptibility of Metastable Austenitic Crâ€“Mnâ€“Niâ€“Nâ€“Cu High-Strength Stainless Steel under Various Heat Treatments. Materials, 2019, 12, 1385. | 2.9 | 9 |
| 18 | Intergranular corrosion behavior and mechanism of the stabilized ultra-pure 430LX ferritic stainless steel. Journal of Materials Science and Technology, 2019, 35, 1787-1796. | 10.7 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effect of annealing temperature on pitting behavior and microstructure evolution of hyperâ€duplex stainless steel 2707. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1682-1692. | 1.5 | 11 |
| 20 | Effect of Surface Roughness on Pitting Corrosion of 2205 Duplex Stainless Steel Investigated by Electrochemical Noise Measurements. Materials, 2019, 12, 738. | 2.9 | 27 |
| 21 | Pitting inhibition of newly developed lean duplex stainless steel 2002 in NaCl solution by a green inhibitor. Materials Research Express, 2019, 6, 076569. | 1.6 | 0 |
| 22 | Alternating voltage induced oscillation on electrochemical behavior and pitting corrosion in duplex stainless steel 2205. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 419-433. | 1.5 | 10 |
| 23 | Investigation on galvanic corrosion behaviors of CFRPs and aluminum alloys systems for automotive applications. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1036-1043. | 1.5 | 16 |
| 24 | The temperature-dependent pitting and repassivation behaviors of UNS S31803 duplex stainless steel in chloride solutions. Corrosion Science, 2019, 149, 29-36. | 6.6 | 9 |
| 25 | The Microstructure and Pitting Resistance of 2002 Lean Duplex Stainless Steel after the Simulated Welding Thermal Cycle Process. Materials, 2019, 12, 70. | 2.9 | 5 |
| 26 | The Critical Pitting Chloride Concentration of Various Stainless Steels Measured by an Electrochemical Method. Journal of the Electrochemical Society, 2018, 165, C939-C949. | 2.9 | 10 |
| 27 | Effect of Hydrogen Charging Conditions on Hydrogen Blisters andÂPitting Susceptibility of 445J1M Ferritic Stainless Steel. Journal of the Electrochemical Society, 2018, 165, C1007-C1016. | 2.9 | 14 |
| 28 | Investigation on ultra-pure ferritic stainless steel 436L susceptibility to intergranular corrosion using optimised double loop electrochemical potentiokinetic reactivation method. Corrosion Engineering Science and Technology, 2018, 53, 574-581. | 1.4 | 13 |
| 29 | Studies on pitting corrosion in austenitic stainless steel interfered by squareâ€wave alternating voltage with different parameters using multiâ€potential steps method. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1741-1757. | 1.5 | 2 |
| 30 | Microstructure evolution and pitting corrosion resistance of the Gleeble-simulated heat-affected zone of a newly developed lean duplex stainless steel 2002. Journal of Alloys and Compounds, 2016, 658, 1031-1040. | 5.5 | 61 |
| 31 | Microstructure Evolution in Aged <scp>UNS</scp> S82441 Duplex Stainless Steel. Steel Research International, 2014, 85, 640-644. | 1.8 | 5 |
| 32 | Evaluation of Pitting Behavior on Solution Treated Duplex Stainless Steel UNS S31803. Journal of Materials Science and Technology, 2014, 30, 179-183. | 10.7 | 24 |
| 33 | Influence of Creq/Nieq on pitting corrosion resistance and mechanical properties of UNS S32304 duplex stainless steel welded joints. Corrosion Science, 2013, 70, 252-259. | 6.6 | 74 |
| 34 | Evaluation of aged duplex stainless steel UNS S32750 susceptibility to intergranular corrosion by optimized double loop electrochemical potentiokinetic reactivation method. Corrosion Science, 2013, 68, 249-255. | 6.6 | 84 |
| 35 | In Situ Observation of Surface Electrochemical Activities of Lean Duplex Stainless Steel LDX 2101. Steel Research International, 2013, 84, 155-162. | 1.8 | 3 |
| 36 | Electrochemical impedance spectroscopy investigation on indium tin oxide films under cathodic polarization in NaOH solution. Thin Solid Films, 2012, 520, 6916-6921. | 1.8 | 27 |

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|---|---|---|---|
| 37 | Influence of welding thermal cycles on microstructure and pitting corrosion resistance of 2304 duplex stainless steels. Corrosion Science, 2012, 55, 368-377. | 6.6 | 84 |
| 38 | Influence of cooling rate on microstructure evolution and pitting corrosion resistance in the simulated heat-affected zone of 2304 duplex stainless steels. Corrosion Science, 2012, 58, 168-174. | 6.6 | 100 |
| 39 | Effect of post-weld heat treatment on microstructure evolution and pitting corrosion behavior of UNS S31803 duplex stainless steel welds. Corrosion Science, 2012, 62, 42-50. | 6.6 | 136 |
| 40 | Effect of a brief post-weld heat treatment on the microstructure evolution and pitting corrosion of laser beam welded UNS S31803 duplex stainless steel. Corrosion Science, 2012, 65, 472-480. | 6.6 | 85 |
| 41 | Microstructural evolution and pitting resistance of annealed lean duplex stainless steel UNS S32304. Nuclear Engineering and Design, 2012, 243, 56-62. | 1.7 | 29 |
| 42 | Annealing temperature effect on the pitting corrosion resistance of plasma arc welded joints of duplex stainless steel UNS S32304 in 1.0 M NaCl. Corrosion Science, 2011, 53, 2191-2200. | 6.6 | 76 |
| 43 | Lower temperature aluminizing and its effect on improving corrosion resistance of iron treated by surface mechanical attrition treatment. Journal of Coatings Technology Research, 2011, 8, 107-116. | 2.5 | 14 |
| 44 | Evaluation of aged Incoloy 800 alloy sensitization to intergranular corrosion by means of double loop electrochemical methods and image analysis. Nuclear Engineering and Design, 2011, 241, 1421-1429. | 1.7 | 11 |
| 45 | Determination of pitting initiation of duplex stainless steel using potentiostatic pulse technique. Electrochimica Acta, 2010, 55, 4837-4844. | 5.2 | 44 |
| 46 | Application of the modified electrochemical potentiodynamic reactivation method to detect susceptibility to intergranular corrosion of a newly developed lean duplex stainless steel LDX2101. Corrosion Science, 2010, 52, 969-977. | 6.6 | 88 |
| 47 | Effect of annealing temperature on the pitting corrosion resistance of super duplex stainless steel UNS S32750. Materials Characterization, 2009, 60, 1049-1054. | 4.4 | 219 |
| 48 | Effect of aging on the corrosion resistance of 2101 lean duplex stainless steel. Materials Characterization, 2009, 60, 1522-1528. | 4.4 | 97 |
| 49 | Investigation of selective corrosion resistance of aged lean duplex stainless steel 2101 by non-destructive electrochemical techniques. Electrochimica Acta, 2009, 54, 5830-5835. | 5.2 | 69 |
| 50 | Pitting corrosion behavior of stainless steel in ultrasonic cell. Electrochimica Acta, 2009, 54, 1558-1563. | 5.2 | 24 |
| 51 | Evaluation of localized corrosion in duplex stainless steel aged at 850Â°C with critical pitting temperature measurement. Electrochimica Acta, 2009, 54, 2790-2794. | 5.2 | 105 |
| 52 | Influence of annealing treatment on the corrosion resistance of lean duplex stainless steel 2101. Electrochimica Acta, 2009, 54, 5387-5392. | 5.2 | 124 |
| 53 | Effect of thermal cycles on the corrosion and mechanical properties of UNS S31803 duplex stainless steel. Corrosion Science, 2009, 51, 2969-2975. | 6.6 | 119 |
| 54 | Critical pitting and repassivation temperatures for duplex stainless steel in chloride solutions. Electrochimica Acta, 2008, 53, 5220-5225. | 5.2 | 130 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Dependence of critical pitting temperature on the concentration of sulphate ion in chloride-containing solutions. Applied Surface Science, 2007, 253, 7369-7375. | 6.1 | 69 |
| 56 | A new polymer thin film with electrical bistable states. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1804-1807. | 1.8 | 4 |
| 57 | Energy effect in switching of PAR thin film as an electrical bistable material. Physica Status Solidi A, 2004, 201, 111-114. | 1.7 | 0 |