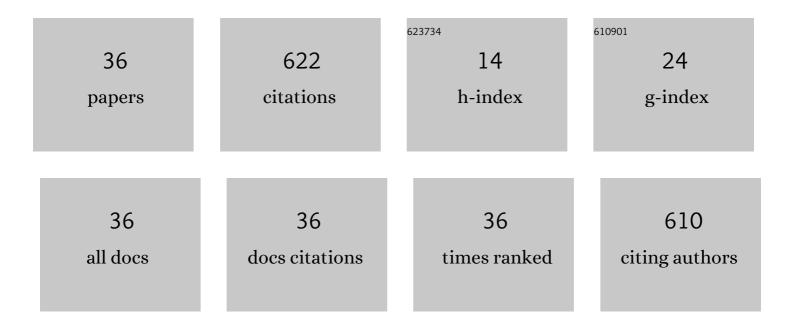
## Wenjun Cai

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Solid-state additive manufacturing of aluminum and copper using additive friction stir deposition:<br>Process-microstructure linkages. Materialia, 2021, 15, 100967.  | 2.7  | 87        |
| 2  | Multiscale characterization of microstructures and mechanical properties of Inconel 718 fabricated by selective laser melting. Journal of Alloys and Compounds, 2019, 784, 182-194.                                       | 5.5  | 80        |
| 3  | Abrasive wear response of nanocrystalline Ni–W alloys across the Hall–Petchbreakdown. Wear, 2013,<br>298-299, 120-126.  | 3.1  | 59        |
| 4  | Spatially expandable fiber-based probes as a multifunctional deep brain interface. Nature<br>Communications, 2020, 11, 6115.  | 12.8 | 44        |
| 5  | Tribological and mechanical behavior of nanostructured Al/Ti multilayers. Surface and Coatings Technology, 2015, 275, 374-383.  | 4.8  | 32        |
| 6  | Corrosion resistance of Al and Alâ $\in$ "Mn thin films. Thin Solid Films, 2016, 615, 391-401.  | 1.8  | 27        |
| 7  | Influence of chemical heterogeneity and microstructure on the corrosion resistance of<br>biodegradable WE43 magnesium alloys. Journal of Materials Chemistry B, 2019, 7, 6399-6411.                                       | 5.8  | 25        |
| 8  | The effects of Mn concentration on the tribocorrosion resistance of Al–Mn alloys. Wear, 2017,<br>380-381, 191-202.  | 3.1  | 22        |
| 9  | Multiphysics modeling and uncertainty quantification of tribocorrosion in aluminum alloys.<br>Corrosion Science, 2021, 178, 109095.   | 6.6  | 22        |
| 10 | The origin of passivity in aluminum-manganese solid solutions. Corrosion Science, 2020, 173, 108749.  | 6.6  | 22        |
| 11 | Microstructural heterogeneity and mechanical anisotropy of 18Ni-330 maraging steel fabricated by selective laser melting: The effect of build orientation and height. Journal of Materials Research, 2020, 35, 2065-2076. | 2.6  | 20        |
| 12 | Functionalized Polyesters via Stereoselective Electrochemical Ring-Opening Polymerization of <i>O</i> -Carboxyanhydrides. ACS Macro Letters, 2020, 9, 1114-1118.  | 4.8  | 19        |
| 13 | Tuning nanoscale grain size distribution in multilayered Al–Mn alloys. Scripta Materialia, 2012, 66,<br>194-197.  | 5.2  | 15        |
| 14 | Ultrahigh tribocorrosion resistance of metals enabled by nano-layering. Acta Materialia, 2021, 206,<br>116609.  | 7.9  | 15        |
| 15 | Effects of nanoscale chemical heterogeneity on the wear, corrosion, and tribocorrosion resistance of Zr-based thin film metallic glasses. Surface and Coatings Technology, 2020, 402, 126324.                             | 4.8  | 13        |
| 16 | Effects of alloying concentration on the aqueous corrosion and passivation of aluminum-manganese-molybdenum concentrated alloys. Corrosion Science, 2022, 198, 110137.  | 6.6  | 13        |
| 17 | Corrosion and tribocorrosion mitigation of perhydropolysilazane-derived coatings on low carbon steel. Corrosion Science, 2020, 177, 108946.   | 6.6  | 12        |
| 18 | Effect of scratching frequency on the tribocorrosion resistance of Al-Mn amorphous thin films.<br>Wear, 2019, 426-427, 1457-1465.   | 3.1  | 11        |

Wenjun Cai

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|----|--|-----|-----------|
| 19 | Optimizing ductility and fracture of amorphous metal thin films on polyimide using multilayers.<br>International Journal of Fracture, 2017, 204, 129-142.  | 2.2 | 10        |
| 20 | Modeling the effects of individual layer thickness and orientation on the tribocorrosion behavior of Al/Cu nanostructured metallic multilayers. Wear, 2021, 477, 203849.                               | 3.1 | 10        |
| 21 | Bayesian latent degradation performance modeling and quantification of corroding aluminum alloys.<br>Reliability Engineering and System Safety, 2018, 178, 84-96.                                      | 8.9 | 8         |
| 22 | Enabling High-Performance Surfaces of Biodegradable Magnesium Alloys via Femtosecond Laser Shock<br>Peening with Ultralow Pulse Energy. ACS Applied Bio Materials, 2021, 4, 7903-7912.                 | 4.6 | 8         |
| 23 | Effect of annealing treatment on the dry sliding wear behavior of copper. Wear, 2019, 426-427, 1187-1194.  | 3.1 | 7         |
| 24 | Effects of processing temperature on the corrosion and tribocorrosion resistance of<br>perhydropolysilazane-derived coatings on AISI 304 steel. Surface and Coatings Technology, 2022, 439,<br>128463. | 4.8 | 7         |
| 25 | Influence of Iron Boride Coating on Flowâ€Accelerated Corrosion of Carbon Steel. Advanced<br>Engineering Materials, 2020, 22, 2000354.   | 3.5 | 6         |
| 26 | Determining Tribocorrosion Rate and Wear-Corrosion Synergy of Bulk and Thin Film Aluminum Alloys.<br>Journal of Visualized Experiments, 2018, , .  | 0.3 | 5         |
| 27 | Mitigating early fracture of amorphous metallic thin films on flexible substrates by tuning substrate roughness and buffer layer properties. Thin Solid Films, 2019, 689, 137493.                      | 1.8 | 5         |
| 28 | Microstructure and mechanical properties of electrodeposited Al1â^'xMnx/Al1â^'yMny nanostructured multilayers. Journal of Materials Research, 2014, 29, 2229-2239.                                     | 2.6 | 4         |
| 29 | Correlating corrosion inhibition to grain size in electrodeposited Ni-18Co. Emergent Materials, 2020, 3, 989-997.  | 5.7 | 4         |
| 30 | A hierarchical modeling approach for degradation data with mixed-type covariates and latent heterogeneity. Reliability Engineering and System Safety, 2021, 216, 107928.                               | 8.9 | 4         |
| 31 | Sequential selection for accelerated life testing via approximate Bayesian inference. Naval Research<br>Logistics, 2022, 69, 336-351.  | 2.2 | 3         |
| 32 | Fabrication and deformation of aluminum–manganese microsandwich structure. Journal of Materials<br>Research, 2016, 31, 480-487.  | 2.6 | 2         |
| 33 | NP-ODE: Neural process aided ordinary differential equations for uncertainty quantification of finite element analysis. IISE Transactions, 0, , 1-16.  | 2.4 | 1         |
| 34 | Investigation of Crystalline and Amorphous Forms of Aluminum and Its Alloys: Computational Modeling and Experiment. Nano, 2018, 13, 1850026.   | 1.0 | 0         |
| 35 | Effects of Magnetic Field on the Corrosion Reactions of A572 Steel in NaCl Aqueous Solution. Journal of Materials Engineering and Performance, 0, , 1.   | 2.5 | 0         |
| 36 | Finite Element Modeling of Electrochemical Polishing of Niobium in Hydrofluoric-Sulfuric Acid<br>Electrolyte. Journal of the Electrochemical Society, 2022, 169, 063507.                               | 2.9 | 0         |