

# Yingwei Song

## List of Publications by Year in descending order

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36  
papers

2,640  
citations

236925

25  
h-index

345221

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36  
all docs

36  
docs citations

36  
times ranked

1634  
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion characterization of Mg <sup>8</sup> Li alloy in NaCl solution. <i>Corrosion Science</i> , 2009, 51, 1087-1094.	6.6	375
2	The effect of Zn concentration on the corrosion behavior of Mg <sup>x</sup> Zn alloys. <i>Corrosion Science</i> , 2012, 65, 322-330.	6.6	267
3	The role of second phases in the corrosion behavior of Mg <sup>5</sup> Zn alloy. <i>Corrosion Science</i> , 2012, 60, 238-245.	6.6	156
4	Effect of second phases on the corrosion behaviour of wrought Mg <sup>Zn</sup> Y <sup>Zr</sup> alloy. <i>Corrosion Science</i> , 2010, 52, 1830-1837.	6.6	155
5	In situ growth of Mg <sup>Al</sup> hydrotalcite conversion film on AZ31 magnesium alloy. <i>Corrosion Science</i> , 2011, 53, 3281-3288.	6.6	148
6	Study of the in situ growth mechanism of Mg <sup>Al</sup> hydrotalcite conversion film on AZ31 magnesium alloy. <i>Corrosion Science</i> , 2012, 63, 148-158.	6.6	136
7	The Special Role of Anodic Second Phases in the Micro-galvanic Corrosion of EW75 Mg Alloy. <i>Electrochimica Acta</i> , 2016, 189, 190-195.	5.2	122
8	Corrosion behavior of the composite ceramic coating containing zirconium oxides on AM30 magnesium alloy by plasma electrolytic oxidation. <i>Corrosion Science</i> , 2011, 53, 3845-3852.	6.6	116
9	Pitting corrosion of a Rare Earth Mg alloy GW93. <i>Journal of Materials Science and Technology</i> , 2017, 33, 954-960.	10.7	103
10	Study of the corrosion mechanism of the in situ grown Mg <sup>Al</sup> CO <sub>3</sub> hydrotalcite film on AZ31 alloy. <i>Corrosion Science</i> , 2012, 65, 268-277.	6.6	92
11	Formation mechanism of phosphate conversion film on Mg <sup>8.8</sup> Li alloy. <i>Corrosion Science</i> , 2009, 51, 62-69.	6.6	91
12	Microstructure and protection characteristics of the naturally formed oxide films on Mg <sup>x</sup> Zn alloys. <i>Corrosion Science</i> , 2013, 72, 133-143.	6.6	81
13	Corrosion behavior of a self-sealing pore micro-arc oxidation film on AM60 magnesium alloy. <i>Corrosion Science</i> , 2015, 100, 275-283.	6.6	80
14	Investigation of surface oxide film on magnesium lithium alloy. <i>Journal of Alloys and Compounds</i> , 2009, 484, 585-590.	5.5	79
15	Investigation of a novel self-sealing pore micro-arc oxidation film on AM60 magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2013, 1, 82-87.	11.9	64
16	Study of the corrosion product films formed on the surface of Mg <sup>x</sup> Zn alloys in NaCl solution. <i>Corrosion Science</i> , 2014, 88, 215-225.	6.6	53
17	Formation mechanism of a self-sealing pore micro-arc oxidation film on AM60 magnesium alloy. <i>Surface and Coatings Technology</i> , 2015, 266, 188-196.	4.8	53
18	Effect of additives on the properties of plasma electrolytic oxidation coatings formed on AM50 magnesium alloy in electrolytes containing K <sub>2</sub> ZrF <sub>6</sub> . <i>Surface and Coatings Technology</i> , 2011, 206, 455-463.	4.8	48

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19	Enhancing the self-healing property by adding the synergetic corrosion inhibitors of Na <sub>3</sub> PO <sub>4</sub> and 2-mercaptobenzothiazole into the coating of Mg alloy. <i>Electrochimica Acta</i> , 2019, 323, 134796.	5.2	45
20	Effect of twins on the corrosion behavior of Mg-5Y-7Gd-1Nd-0.5Zr Mg alloy. <i>Journal of Alloys and Compounds</i> , 2018, 757, 356-363.	5.5	40
21	Influence of alloying elements and microstructure on the formation of hydrotalcite film on Mg alloys. <i>Corrosion Science</i> , 2015, 93, 90-99.	6.6	39
22	Different Microgalvanic Corrosion Behavior of Cast and Extruded EW75 Mg Alloys. <i>Journal of the Electrochemical Society</i> , 2016, 163, C856-C863.	2.9	38
23	In Situ Growth Process of Mg-Al Hydrotalcite Conversion Film on AZ31 Mg Alloy. <i>Journal of Materials Science and Technology</i> , 2015, 31, 384-390.	10.7	36
24	Effect of corrosive media on galvanic corrosion of complicated tri-metallic couples of 2024 Al alloy/Q235 mild steel/304 stainless steel. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1886-1893.	10.7	32
25	An environmentally friendly molybdate/phosphate black film on Mg-Zn-Y-Zr alloy. <i>Surface and Coatings Technology</i> , 2010, 204, 3182-3187.	4.8	28
26	Self-Healing Coatings Prepared by Loading Interphase Inhibitors into MAO Coating of AM60 Mg Alloy. <i>Journal of the Electrochemical Society</i> , 2018, 165, C412-C421.	2.9	25
27	Comparison of the corrosion behavior of AM60 Mg alloy with and without self-healing coating in atmospheric environment. <i>Journal of Magnesium and Alloys</i> , 2020, 9, 1220-1220.	11.9	24
28	Effect of hydrogen on the corrosion behavior of the Mg-xZn alloys. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 208-213.	11.9	22
29	Corrosion behavior of dual-phase Ti-6Al-4V alloys: A discussion on the impact of Fe content. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157708.	5.5	18
30	Effects of corrosive media on the localized corrosion forms of Mg-3Zn alloy. <i>Corrosion Communications</i> , 2021, 2, 24-32.	6.0	16
31	Product/metal ratio (PMR): A novel criterion for the evaluation of electrolytes on micro-arc oxidation (MAO) of Mg and its alloys. <i>Science China Technological Sciences</i> , 2011, 54, 2795-2801.	4.0	13
32	An optimization of pretreatment for the phosphate conversion film on WE43 magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 481-491.	1.5	13
33	Investigation of microcracks on conversion film of AZ80 Mg alloy. <i>Surface Engineering</i> , 2019, 35, 527-535.	2.2	12
34	Corrosion Behavior of Hydrotalcite Film on AZ31 Alloy in Simulated Body Fluid. <i>Coatings</i> , 2019, 9, 113.	2.6	10
35	Effects of second phases on the formation mechanism and corrosion resistance of phosphate conversion film on AZ80 Mg alloy. <i>Anti-Corrosion Methods and Materials</i> , 2018, 65, 587-593.	1.5	6
36	Characterization of the in situ growth manasseite/carbonates composite conversion film on Mg <sub>2</sub> Zn alloy. <i>Materials Letters</i> , 2015, 150, 65-68.	2.6	4