

B Malki

List of Publications by Year in descending order

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18
papers

866
citations

933447

10
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

746
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between alloy composition, microstructure and exfoliation corrosion in Al-Zn-Mg-Cu alloys. Corrosion Science, 2011, 53, 3139-3149.	6.6	185
2	Influence of cold working on the pitting corrosion resistance of stainless steels. Corrosion Science, 2007, 49, 1933-1948.	6.6	183
3	Effect of the final annealing of cold rolled stainless steels sheets on the electronic properties and pit nucleation resistance of passive films. Corrosion Science, 2008, 50, 431-435.	6.6	121
4	Computer simulation of the corrosion pit growth. Corrosion Science, 2005, 47, 171-182.	6.6	94
5	Effect of austenite stability on the pitting corrosion resistance of cold worked stainless steels. Corrosion Science, 2009, 51, 493-498.	6.6	69
6	Electrochemical aspects of exfoliation corrosion of aluminium alloys: The effects of heat treatment. Corrosion Science, 2011, 53, 1394-1400.	6.6	59
7	Pitting transients analysis of stainless steels at the open circuit potential. Corrosion Science, 2006, 48, 2432-2441.	6.6	46
8	Numerical simulations study of the localized corrosion resistance of AISI 316L stainless steel and pure titanium in a simulated body fluid environment. Corrosion Science, 2011, 53, 3309-3314.	6.6	35
9	Influence of the Alloying Elements on Pitting Corrosion of Stainless Steels: A Modeling Approach. Journal of the Electrochemical Society, 2008, 155, C583.	2.9	18
10	Ab initio study of hydrogen related defect in ZrO ₂ : Consequences on dry and aqueous oxidation. Journal of Nuclear Materials, 2011, 416, 362-368.	2.7	12
11	Ab Initio Study of Water Related Defects in Cr ₂ O ₃ and the Consequences for the Stability of Passive Films of Stainless Steels. Journal of the Electrochemical Society, 2014, 161, C486-C493.	2.9	11
12	Corrosion Current Fluctuations at Metastable to Stable Pitting Transition of Aluminum. Journal of the Electrochemical Society, 2006, 153, B527.	2.9	8
13	Threshold stress for crack initiation in yellow brass immersed in sodium nitrite solutions. Corrosion Science, 1999, 41, 1031-1035.	6.6	7
14	Ab Initio Monte Carlo Simulations of the Acidic Dissolution of Stainless Steels: Influence of the Alloying Elements. Journal of the Electrochemical Society, 2016, 163, C807-C814.	2.9	7
15	Role of water on the stability of oxygen vacancies in ZrO ₂ : An ab initio based study. Journal of Nuclear Materials, 2012, 429, 173-176.	2.7	5
16	Ab Initio Monte Carlo Simulations of the Acidic Dissolution of Stainless Steels: Further Insights into the Mechanisms. Journal of the Electrochemical Society, 2018, 165, C703-C709.	2.9	3
17	Ab Initio Monte Carlo Simulations of the Acidic Dissolution of Stainless Steels Effect of Mechanical Deformation. Journal of the Electrochemical Society, 2019, 166, C564-C570.	2.9	2
18	Stress Corrosion Cracking Behavior of β -Brass as a Function of the Oxide Transport Properties in NaNO ₂ Solutions. Journal of the Electrochemical Society, 2001, 148, B357.	2.9	1