

# B Malki

## List of Publications by Year in descending order

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18  
papers

866  
citations

933447

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839539

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18  
docs citations

18  
times ranked

746  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Ab Initio Study of Water Related Defects in Cr <sub>2</sub> O <sub>3</sub> and the Consequences for the Stability of Passive Films of Stainless Steels. Journal of the Electrochemical Society, 2014, 161, C486-C493.	2.9	11
5	Role of water on the stability of oxygen vacancies in ZrO <sub>2</sub> : An ab initio based study. Journal of Nuclear Materials, 2012, 429, 173-176.	2.7	5
6	Electrochemical aspects of exfoliation corrosion of aluminium alloys: The effects of heat treatment. Corrosion Science, 2011, 53, 1394-1400.	6.6	59
7	Relationship between alloy composition, microstructure and exfoliation corrosion in Al-Zn-Mg-Cu alloys. Corrosion Science, 2011, 53, 3139-3149.	6.6	185
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	Ab initio study of hydrogen related defect in ZrO <sub>2</sub> : Consequences on dry and aqueous oxidation. Journal of Nuclear Materials, 2011, 416, 362-368.	2.7	12
10	Effect of austenite stability on the pitting corrosion resistance of cold worked stainless steels. Corrosion Science, 2009, 51, 493-498.	6.6	69
11	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
12	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
13	Influence of cold working on the pitting corrosion resistance of stainless steels. Corrosion Science, 2007, 49, 1933-1948.	6.6	183
14	Pitting transients analysis of stainless steels at the open circuit potential. Corrosion Science, 2006, 48, 2432-2441.	6.6	46
15	Corrosion Current Fluctuations at Metastable to Stable Pitting Transition of Aluminum. Journal of the Electrochemical Society, 2006, 153, B527.	2.9	8
16	Computer simulation of the corrosion pit growth. Corrosion Science, 2005, 47, 171-182.	6.6	94
17	Stress Corrosion Cracking Behavior of Î±-Brass as a Function of the Oxide Transport Properties in NaNO <sub>2</sub> Solutions. Journal of the Electrochemical Society, 2001, 148, B357.	2.9	1
18	Threshold stress for crack initiation in yellow brass immersed in sodium nitrite solutions. Corrosion Science, 1999, 41, 1031-1035.	6.6	7