

# Mohammad Hadi Moayed

## List of Publications by Year in descending order

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49  
papers

2,103  
citations

279798

23  
h-index

233421

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49  
docs citations

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times ranked

1448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Microstructure Dependence of Critical Pitting Temperature and Pitting Potential in a 2205 Duplex Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2021, 168, 111501.	2.9	4
2	Effect of Molybdate on the Stability of Pit Growth in Duplex Stainless Steel 2205. <i>Journal of the Electrochemical Society</i> , 2021, 168, 111505.	2.9	0
3	Pitting Corrosion of 17-4PH Stainless Steel: Impingement of a Fluid Jet vs. Erosionâ€Corrosion in the Presence of the Solid Particles. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020, 6, 1.	2.6	1
4	The Contrast between the Pitting Corrosion of 316 SS in NaCl and NaBr Solutions: Part II. Morphology, Chemistry, and Stabilization of the Pits. <i>Journal of the Electrochemical Society</i> , 2019, 166, C321-C331.	2.9	6
5	The Contrast between the Pitting Corrosion of 316 SS in NaCl and NaBr Solutions: Part I. Evolution of Metastable Pitting and Stable Pitting. <i>Journal of the Electrochemical Society</i> , 2019, 166, C65-C75.	2.9	14
6	Mechanistic Investigation on the Effect of Molybdate on the Critical Pitting Temperature of 2205 Duplex Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2019, 166, C101-C107.	2.9	6
7	Synthesis of nano HA/Î²TCP mesoporous particles using a simple modification in granulation method. <i>Materials Science and Engineering C</i> , 2019, 96, 859-871.	7.3	25
8	Effect of thermomechanical processing on hydrogen permeation in API X70 pipeline steel. <i>Materials Chemistry and Physics</i> , 2018, 220, 360-365.	4.0	11
9	Dependence of the Electrochemical and Passive Behavior of the Lead-Acid Battery Positive Grid on Electrode Surface Roughness. <i>Corrosion</i> , 2017, 73, 1359-1366.	1.1	4
10	Pit Transition Potential and Repassivation Potential of Stainless Steel in Thiosulfate Solution. <i>Journal of the Electrochemical Society</i> , 2016, 163, C275-C281.	2.9	22
11	Beeswax-Colophony Blend: A Novel Green Organic Coating for Protection of Steel Drinking Water Storage Tanks. <i>Metals</i> , 2015, 5, 1645-1664.	2.3	8
12	Effect of Thiosulfate on Pitting Corrosion of 316SS. <i>Journal of the Electrochemical Society</i> , 2015, 162, C121-C127.	2.9	32
13	Effect of Thiosulfate on Pitting Corrosion of 316SS. <i>Journal of the Electrochemical Society</i> , 2015, 162, C71-C77.	2.9	42
14	EIS assessment of critical pitting temperature of 2205 duplex stainless steel in acidified ferric chloride solution. <i>Corrosion Science</i> , 2014, 80, 197-204.	6.6	75
15	Corrosion evaluation of multi-pass welded nickelâ€aluminum bronze alloy in 3.5% sodium chloride solution: A restorative application of gas tungsten arc welding process. <i>Materials &amp; Design</i> , 2014, 58, 346-356.	5.1	61
16	Pitting corrosion of cold rolled solution treated 17-4 PH stainless steel. <i>Corrosion Science</i> , 2014, 80, 290-298.	6.6	82
17	Electrochemical and quantum chemical assessment of two organic compounds from pyridine derivatives as corrosion inhibitors for mild steel in HCl solution under stagnant condition and hydrodynamic flow. <i>Corrosion Science</i> , 2014, 78, 138-150.	6.6	250
18	Investigation on the effect of nitrate ion on the critical pitting temperature of 2205 duplex stainless steel along a mechanistic approach using pencil electrode. <i>Corrosion Science</i> , 2014, 85, 222-231.	6.6	34

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19	Comparative study on corrosion behaviour of Nitinol and stainless steel orthodontic wires in simulated saliva solution in presence of fluoride ions. <i>Materials Science and Engineering C</i> , 2013, 33, 2084-2093.	7.3	55
20	Inhibitive assessment of 1-(7-methyl-5-morpholin-4-yl-thiazolo[4,5-d]pyrimidin-2-yl)-hydrazine as a corrosion inhibitor for mild steel in sulfuric acid solution. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 831-839.	2.2	9
21	In situ inhibitor synthesis from admixture of benzaldehyde and benzene-1,2-diamine along with FeCl <sub>3</sub> catalyst as a new corrosion inhibitor for mild steel in 0.5M sulphuric acid. <i>Corrosion Science</i> , 2013, 71, 20-31.	6.6	71
22	A new equation proposed for evaluation of IR drop on buried pipelines. <i>Anti-Corrosion Methods and Materials</i> , 2013, 60, 312-318.	1.5	2
23	In Situ Synthesis of 2-Phenylbenzimidazole as an Hydrogen Sulfide Corrosion Inhibitor of Carbon Steel. <i>Corrosion</i> , 2013, 69, 1195-1204.	1.1	9
24	New High-Resolution Solution for Measuring Degree of Sensitization of Duplex Stainless Steel 2205 Using Double-Loop Electrochemical Potentiodynamic Reactivation Technique. <i>Corrosion</i> , 2013, 69, 230-242.	1.1	7
25	A comparative study of critical pitting temperature (CPT) of stainless steels by electrochemical impedance spectroscopy (EIS), potentiodynamic and potentiostatic techniques. <i>Corrosion Science</i> , 2012, 59, 96-102.	6.6	84
26	Hydrometallurgical Extraction of Vanadium from Mechanically Milled Oil-Fired Fly Ash: Analytical Process Optimization by Using Taguchi Design Method. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 1269-1276.	2.1	7
27	Influence of heat treatment on microstructure and passivity of Cu <sub>30</sub> Zn <sub>35</sub> Sn alloy in buffer solution containing chloride ions. <i>Bulletin of Materials Science</i> , 2012, 35, 89-97.	1.7	3
28	Critical pitting temperature (CPT) assessment of 2205 duplex stainless steel in 0.1M NaCl at various molybdate concentrations. <i>Corrosion Science</i> , 2011, 53, 513-522.	6.6	81
29	Improving the corrosion behaviour of powder metallurgical 316L alloy by prepassivation in 20% nitric acid. <i>Corrosion Science</i> , 2011, 53, 135-146.	6.6	15
30	Correlation between critical pitting temperature and degree of sensitisation on alloy 2205 duplex stainless steel. <i>Corrosion Science</i> , 2011, 53, 637-644.	6.6	88
31	Critical pitting temperature dependence of 2205 duplex stainless steel on dichromate ion concentration in chloride medium. <i>Corrosion Science</i> , 2011, 53, 1278-1287.	6.6	73
32	Theoretical and electrochemical assessment of inhibitive behavior of some thiophenol derivatives on mild steel in HCl. <i>Corrosion Science</i> , 2011, 53, 3058-3067.	6.6	82
33	A novel electrochemical approach on the effect of alloying elements on self-discharge and discharge delivered current density of Pb-Ca-Ag lead-acid battery plates. <i>Journal of Power Sources</i> , 2011, 196, 10424-10429.	7.8	8
34	Inhibitive effect of synthesized 2-(3-pyridyl)-3,4-dihydro-4-quinazolinone as a corrosion inhibitor for mild steel in hydrochloric acid. <i>Materials Chemistry and Physics</i> , 2011, 126, 873-879.	4.0	76
35	Post-weld heat treatment influence on galvanic corrosion of GTAW of 17-4PH stainless steel in 3.5%NaCl. <i>Corrosion Engineering Science and Technology</i> , 2011, 46, 415-424.	1.4	25
36	Improving pore morphology of PM 316L stainless steels by prealloyed powder prepassivation in 20% nitric acid. <i>Powder Metallurgy</i> , 2011, 54, 566-571.	1.7	3

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37	Galvanic corrosion of gas tungsten arc repair welds in 17-4PH stainless steel in 3Å5% NaCl solution. Corrosion Engineering Science and Technology, 2011, 46, 406-414.	1.4	6
38	Tuning DOS measuring parameters based on double-loop EPR in H2SO4 containing KSCN by Taguchi method. Corrosion Science, 2010, 52, 2653-2660.	6.6	41
39	Evolution of current transients and morphology of metastable and stable pitting on stainless steel near the critical pitting temperature. Corrosion Science, 2006, 48, 1004-1018.	6.6	146
40	Deterioration in critical pitting temperature of 904L stainless steel by addition of sulfate ions. Corrosion Science, 2006, 48, 3513-3530.	6.6	63
41	The effects of different additives in electrolyte of AGM batteries on self-discharge. Journal of Power Sources, 2006, 158, 705-709.	7.8	8
42	The Relationship Between Pit Chemistry and Pit Geometry Near the Critical Pitting Temperature. Journal of the Electrochemical Society, 2006, 153, B330.	2.9	58
43	An investigation on the effect of bleaching environment on pitting corrosion and transpassive dissolution of 316 stainless steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 39-43.	1.5	15
44	Using pit solution chemistry for evaluation of metastable pitting stability of austenitic stainless steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 166-173.	1.5	20
45	Investigation on the effect of various surface preparations on corrosion performance of powder coated steel by EIS. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 325-328.	1.5	11
46	EIS examination of mill scale on mild steel with polyesterâ€“epoxy powder coating. Progress in Organic Coatings, 2004, 50, 162-165.	3.9	65
47	Dependence of the Critical Pitting Temperature on surface roughness. Corrosion Science, 2003, 45, 1203-1216.	6.6	126
48	Aggressive effects of pitting â€œinhibitorsâ€œ on highly alloyed stainless steels. Corrosion Science, 1998, 40, 519-522.	6.6	30
49	Metastable Pitting and the Critical Pitting Temperature. Journal of the Electrochemical Society, 1998, 145, 2622-2628.	2.9	139