

# Mehran Behazin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/117468/publications.pdf>

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18  
papers

245  
citations

1040056

9  
h-index

996975

15  
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all docs

19  
docs citations

19  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	An evaluation of corrosion processes affecting copper-coated nuclear waste containers in a deep geological repository. <i>Progress in Materials Science</i> , 2021, 118, 100766.	32.8	59
2	Comparative study of film formation on high-purity Co and Stellite-6: Probing the roles of a chromium oxide layer and gamma-radiation. <i>Corrosion Science</i> , 2012, 63, 40-50.	6.6	28
3	The corrosion of copper in irradiated and unirradiated humid air. <i>Corrosion Science</i> , 2018, 141, 53-62.	6.6	28
4	Combined Effects of pH and $\text{I}^{137}$ -Irradiation on the Corrosion of Co-Cr Alloy Stellite-6. <i>Electrochimica Acta</i> , 2014, 134, 399-410.	5.2	16
5	Corrosion of copper-coated used nuclear fuel containers due to oxygen trapped in a Canadian deep geological repository. <i>Corrosion Engineering Science and Technology</i> , 2018, 53, 309-315.	1.4	15
6	A comparison of the corrosion behaviour of copper materials in dilute nitric acid. <i>Corrosion Science</i> , 2021, 192, 109778.	6.6	14
7	Potentiostatic Oxide Growth Kinetics on Ni-Cr and Co-Cr Alloys: Potential and pH Dependences. <i>Electrochimica Acta</i> , 2015, 162, 185-197.	5.2	13
8	The Effects of Cathodic Reagent Concentration and Small Solution Volumes on the Corrosion of Copper in Dilute Nitric Acid Solutions. <i>Corrosion</i> , 2018, 74, 326-336.	1.1	12
9	The nature of the copper sulfide film grown on copper in aqueous sulfide and chloride solutions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 300-307.	1.5	12
10	An update on the copper corrosion program for the long-term management of used nuclear fuel in Canada. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 25-31.	1.5	11
11	The anodic formation of sulfide and oxide films on copper in borate-buffered aqueous chloride solutions containing sulfide. <i>Electrochimica Acta</i> , 2020, 362, 137087.	5.2	9
12	A Review of the Effect of Irradiation on the Corrosion of Copper-Coated Used Fuel Containers. <i>Corrosion and Materials Degradation</i> , 2021, 2, 678-707.	2.4	8
13	Mass and Charge Balance (MCB) Model Simulations of Current, Oxide Growth and Dissolution during Corrosion of Co-Cr Alloy Stellite-6. <i>Journal of the Electrochemical Society</i> , 2016, 163, C94-C105.	2.9	7
14	The impact of 40 years of radiation on the integrity of copper. <i>Journal of Nuclear Materials</i> , 2022, 559, 153411.	2.7	5
15	Exploring the governing transport mechanisms of corrosive agents in a Canadian deep geological repository. <i>Science of the Total Environment</i> , 2022, 828, 153944.	8.0	5
16	Galvanic Coupling of Copper and Carbon Steel in the Presence of Bentonite Clay and Chloride. <i>Journal of the Electrochemical Society</i> , 2022, 169, 051502.	2.9	3
17	Effect of Gamma-Irradiation On Stellite-6 Corrosion: Dependence On pH and Temperature. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
18	Galvanic Corrosion of Copper/Carbon Steel Couples Under Simulated Disposal Conditions for Used Nuclear Fuel. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 576-576.	0.0	0