

Philippe Refait

List of Publications by Year in descending order

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37
papers

1,767
citations

361413

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h-index

330143

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37
docs citations

37
times ranked

1530
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Fe(II-III) layered double hydroxysulphate green rust two from Rietveld analysis. <i>Solid State Sciences</i> , 2003, 5, 327-334.	3.2	179
2	Characterisation of mackinawite by Raman spectroscopy: Effects of crystallisation, drying and oxidation. <i>Corrosion Science</i> , 2008, 50, 3247-3255.	6.6	153
3	Effect of orthophosphate on the oxidation products of Fe(II)-Fe(III) hydroxycarbonate: the transformation of green rust to ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1715-1726.	3.9	131
4	Corrosion and cathodic protection of carbon steel in the tidal zone: Products, mechanisms and kinetics. <i>Corrosion Science</i> , 2015, 90, 375-382.	6.6	119
5	The transformation of mackinawite into greigite studied by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 496-504.	2.5	116
6	Formation of the Fe(II-III) hydroxysulphate green rust during marine corrosion of steel associated to molecular detection of dissimilatory sulphite-reductase. <i>Corrosion Science</i> , 2008, 50, 1099-1111.	6.6	112
7	Olive leaf extract as natural corrosion inhibitor for pure copper in 0.5 M NaCl solution: A study by voltammetry around OCP. <i>Journal of Electroanalytical Chemistry</i> , 2016, 769, 53-61.	3.8	90
8	Characterisation of calcareous deposits by electrochemical methods: role of sulphates, calcium concentration and temperature. <i>Electrochimica Acta</i> , 2004, 49, 2833-2839.	5.2	88
9	Microbiologically influenced corrosion of archaeological artefacts: characterisation of iron(II) sulfides by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1425-1433.	2.5	78
10	Corrosion of Carbon Steel in Marine Environments: Role of the Corrosion Product Layer. <i>Corrosion and Materials Degradation</i> , 2020, 1, 198-218.	2.4	74
11	Localised corrosion of carbon steel in NaHCO ₃ /NaCl electrolytes: role of Fe(II)-containing compounds. <i>Corrosion Science</i> , 2006, 48, 709-726.	6.6	68
12	Influence of soil moisture on the corrosion processes of carbon steel in artificial soil: Active area and differential aeration cells. <i>Electrochimica Acta</i> , 2016, 213, 698-708.	5.2	66
13	On the bacterial communities associated with the corrosion product layer during the early stages of marine corrosion of carbon steel. <i>International Biodeterioration and Biodegradation</i> , 2015, 99, 55-65.	3.9	60
14	Effects of NO ₂ ⁻ ions on localised corrosion of steel in NaHCO ₃ +NaCl electrolytes. <i>Electrochimica Acta</i> , 2007, 52, 7599-7606.	5.2	59
15	Electrochemical formation and transformation of corrosion products on carbon steel under cathodic protection in seawater. <i>Corrosion Science</i> , 2013, 71, 32-36.	6.6	58
16	Synthesis of goethite from Fe(OH) ₂ precipitates: Influence of Fe(II) concentration and stirring speed. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2124-2130.	4.0	54
17	Influence of soil moisture on the residual corrosion rates of buried carbon steel structures under cathodic protection. <i>Electrochimica Acta</i> , 2015, 176, 1410-1419.	5.2	52
18	Study of Fe(II) sulphides in waterlogged archaeological wood. <i>Studies in Conservation</i> , 2013, 58, 297-307.	1.1	35

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19	Corrosion inhibition of copper in 0.5 M NaCl solutions by aqueous and hydrolysis acid extracts of olive leaf. <i>Journal of Electroanalytical Chemistry</i> , 2020, 859, 113834.	3.8	31
20	Influence of arsenate species on the formation of Fe(III) oxyhydroxides and Fe(II) hydroxychloride. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 332, 26-35.	4.7	20
21	Corrosion processes of carbon steel in argillite: Galvanic effects associated with the heterogeneity of the corrosion product layer. <i>Electrochimica Acta</i> , 2015, 182, 1019-1028.	5.2	16
22	Localized corrosion of carbon steel in seawater: Processes occurring in cathodic zones. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 973-984.	1.5	14
23	Contribution of magnetic measurement methods to the analysis of iron sulfides in archaeological waterlogged wood-iron assemblies. <i>Microchemical Journal</i> , 2019, 148, 10-20.	4.5	12
24	Long-term alteration processes of iron fasteners extracted from archaeological shipwrecks aged in biologically active waterlogged media. <i>Corrosion Science</i> , 2021, 181, 109231.	6.6	10
25	Corrosion of low alloy steel in stagnant artificial or stirred natural seawater: The role of Al and Cr. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 985-995.	1.5	9
26	Galvanic corrosion in marine environments: Effects associated with the inversion of polarity of Zn/carbon steel couples. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 950-961.	1.5	9
27	Prediction of Thermal Spray Coatings Performance in Marine Environments by Combination of Laboratory and Field Tests. <i>Coatings</i> , 2021, 11, 320.	2.6	8
28	Abiotically or microbially mediated transformations of magnetite by sulphide species: The unforeseen role of nitrate-reducing bacteria. <i>Corrosion Science</i> , 2018, 142, 31-44.	6.6	7
29	Cathodic protection of buried steel structures: Processes occurring at the steel/soil interface during wet/dry cycles. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 451-463.	1.5	6
30	Mechanisms of localized corrosion of carbon steel associated with magnetite/mackinawite layers in a cement grout. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 194-210.	1.5	6
31	Formation of Iron Sulfides on Carbon Steel in a Specific Cement Grout Designed for Radioactive Waste Repository and Associated Corrosion Mechanisms. <i>Materials</i> , 2021, 14, 3563.	2.9	6
32	Study of Overprotective-Polarization of Steel Subjected to Cathodic Protection in Unsaturated Soil. <i>Materials</i> , 2021, 14, 4123.	2.9	6
33	Post-treatment Study of Iron/Sulfur-containing Compounds in the Wreck of Lyon Saint-Georges 4 (Second Century ACE). <i>Studies in Conservation</i> , 2020, 65, 28-36.	1.1	5
34	Influence of Mg ²⁺ Ions on the Formation of Green Rust Compounds in Simulated Marine Environments. <i>Corrosion and Materials Degradation</i> , 2021, 2, 46-60.	2.4	4
35	Influence of Organic Matter/Bacteria on the Formation and Transformation of Sulfate Green Rust. <i>Corrosion and Materials Degradation</i> , 2022, 3, 1-16.	2.4	3
36	On the Use of Voltammetry to Estimate the Effectiveness of Cathodic Protection of Buried Steel Structures. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6042-6052.	2.5	2

#	ARTICLE	IF	CITATIONS
37	Assemblages bois-fer et biocorrosion : Étude des sulfures de fer formés en conditions anoxiques dans des bois d'œuvres. <i>Materiaux Et Techniques</i> , 2016, 104, 512.	0.9	1