

Nadine PÃ©bÃ©re

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3701797/publications.pdf>

Version: 2024-02-01

78
papers

5,625
citations

87723

38
h-index

76769

74
g-index

82
all docs

82
docs citations

82
times ranked

4941
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | CPE analysis by local electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2006, 51, 1473-1479. | 2.6 | 1,294 |
| 2 | The corrosion of pure magnesium in aerated and deaerated sodium sulphate solutions. <i>Corrosion Science</i> , 2001, 43, 471-484. | 3.0 | 413 |
| 3 | Dielectric Properties of Materials Showing Constant-Phase-Element (CPE) Impedance Response. <i>Journal of the Electrochemical Society</i> , 2013, 160, C215-C225. | 1.3 | 370 |
| 4 | Investigation of magnesium corrosion in aerated sodium sulfate solution by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 1990, 35, 555-561. | 2.6 | 229 |
| 5 | On the corrosion mechanism of Mg investigated by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2019, 306, 61-70. | 2.6 | 163 |
| 6 | Local and global electrochemical impedances applied to the corrosion behaviour of an AZ91 magnesium alloy. <i>Corrosion Science</i> , 2009, 51, 1789-1794. | 3.0 | 152 |
| 7 | Electrochemical characterisation of a martensitic stainless steel in a neutral chloride solution. <i>Electrochimica Acta</i> , 2013, 87, 32-40. | 2.6 | 140 |
| 8 | Layered double hydroxides as containers of inhibitors in organic coatings for corrosion protection of carbon steel. <i>Progress in Organic Coatings</i> , 2012, 74, 343-348. | 1.9 | 137 |
| 9 | Corrosion protection of carbon steel by an epoxy resin containing organically modified clay. <i>Surface and Coatings Technology</i> , 2007, 201, 7408-7415. | 2.2 | 136 |
| 10 | Constant-phase-element behavior caused by inhomogeneous water uptake in anti-corrosion coatings. <i>Electrochimica Acta</i> , 2013, 87, 693-700. | 2.6 | 131 |
| 11 | Local electrochemical impedance spectroscopy: A review and some recent developments. <i>Electrochimica Acta</i> , 2011, 56, 8048-8048. | 2.6 | 129 |
| 12 | Delaminated areas beneath organic coating: A local electrochemical impedance approach. <i>Corrosion Science</i> , 2006, 48, 1779-1790. | 3.0 | 126 |
| 13 | Synergistic effect between 8-hydroxyquinoline and benzotriazole for the corrosion protection of 2024 aluminium alloy: A local electrochemical impedance approach. <i>Corrosion Science</i> , 2015, 101, 66-74. | 3.0 | 88 |
| 14 | On the stability of the oxides film formed on a magnesium alloy containing rare-earth elements. <i>Electrochimica Acta</i> , 2018, 290, 586-594. | 2.6 | 85 |
| 15 | Influence of flow on the corrosion inhibition of carbon steel by fatty amines in association with phosphonocarboxylic acid salts. <i>Corrosion Science</i> , 2005, 47, 593-604. | 3.0 | 84 |
| 16 | Corrosion protection of 304L stainless steel by chemical vapor deposited alumina coatings. <i>Corrosion Science</i> , 2014, 81, 125-131. | 3.0 | 83 |
| 17 | Quantitative characterization of protective films grown on copper in the presence of different triazole derivative inhibitors. <i>Electrochimica Acta</i> , 2002, 47, 4339-4346. | 2.6 | 79 |
| 18 | Characterisation of sealed anodic films on 7050 T74 and 2214 T6 aluminium alloys. <i>Surface and Coatings Technology</i> , 2002, 154, 94-103. | 2.2 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Corrosion protection of AA2024 sealed anodic layers using the hydrophobic properties of carboxylic acids. <i>Surface and Coatings Technology</i> , 2009, 203, 3420-3426. | 2.2 | 76 |
| 20 | Corrosion protection mechanisms of carbon steel by an epoxy resin containing indole-3 butyric acid modified clay. <i>Progress in Organic Coatings</i> , 2010, 69, 410-416. | 1.9 | 69 |
| 21 | Impedance analysis of film-forming amines for the corrosion protection of a carbon steel. <i>Electrochimica Acta</i> , 2018, 283, 699-707. | 2.6 | 62 |
| 22 | Functionalization of synthetic talc-like phyllosilicates by alkoxyorganosilane grafting. <i>Journal of Materials Chemistry</i> , 2010, 20, 9695. | 6.7 | 59 |
| 23 | Local electrochemical impedance spectroscopy: Considerations about the cell geometry. <i>Electrochimica Acta</i> , 2008, 53, 7386-7395. | 2.6 | 58 |
| 24 | CO ₂ corrosion resistance of carbon steel in relation with microstructure changes. <i>Materials Chemistry and Physics</i> , 2015, 156, 198-205. | 2.0 | 58 |
| 25 | Determination of water uptake in organic coatings deposited on 2024 aluminium alloy: Comparison between impedance measurements and gravimetry. <i>Progress in Organic Coatings</i> , 2017, 112, 93-100. | 1.9 | 58 |
| 26 | High-Rate Copper Dissolution in Hydrochloric Acid Solution. <i>Journal of the Electrochemical Society</i> , 1996, 143, 961-967. | 1.3 | 56 |
| 27 | Determination of the sensitized zone extension in welded AISI 304 stainless steel using non-destructive electrochemical techniques. <i>Corrosion Science</i> , 2008, 50, 1149-1155. | 3.0 | 53 |
| 28 | Incorporation of an indole-3 butyric acid modified clay in epoxy resin for corrosion protection of carbon steel. <i>Surface and Coatings Technology</i> , 2008, 202, 4945-4951. | 2.2 | 51 |
| 29 | Corrosion rate determination of rare-earth Mg alloys in a Na ₂ SO ₄ solution by electrochemical measurements and inductive coupled plasma-optical emission spectroscopy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 47-57. | 5.5 | 49 |
| 30 | Structure of waterborne coatings by electrochemical impedance spectroscopy and a thermostimulated current method: influence of fillers. <i>Progress in Organic Coatings</i> , 2000, 39, 167-175. | 1.9 | 48 |
| 31 | Determination of resistivity profiles in anti-corrosion coatings from constant-phase-element parameters. <i>Progress in Organic Coatings</i> , 2014, 77, 2076-2083. | 1.9 | 46 |
| 32 | The Synergistic Effect Between Phosphonocarboxylic Acid Salts and Fatty Amines for the Corrosion Protection of a Carbon Steel. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 487-493. | 1.5 | 45 |
| 33 | 8-hydroxyquinoline-modified clay incorporated in an epoxy coating for the corrosion protection of carbon steel. <i>Surfaces and Interfaces</i> , 2019, 14, 26-33. | 1.5 | 44 |
| 34 | Corrosion inhibition of 2024 aluminium alloy by sodium decanoate. <i>Electrochimica Acta</i> , 2010, 55, 6182-6189. | 2.6 | 42 |
| 35 | Impedance study of the influence of chromates on the properties of waterborne coatings deposited on 2024 aluminium alloy. <i>Corrosion Science</i> , 2016, 109, 174-181. | 3.0 | 41 |
| 36 | Comparison of local electrochemical impedance measurements derived from bi-electrode and microcapillary techniques. <i>Electrochimica Acta</i> , 2009, 54, 5775-5781. | 2.6 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Impedance analysis of the distributed resistivity of coatings in dry and wet conditions. <i>Electrochimica Acta</i> , 2015, 179, 452-459. | 2.6 | 39 |
| 38 | Corrosion behaviour of brazing material AA4343. <i>Electrochimica Acta</i> , 2006, 52, 1092-1100. | 2.6 | 38 |
| 39 | Galvanic coupling between copper and aluminium in a thin-layer cell. <i>Corrosion Science</i> , 2010, 52, 991-995. | 3.0 | 38 |
| 40 | Identification of Resistivity Distributions in Dielectric Layers by Measurement Model Analysis of Impedance Spectroscopy. <i>Electrochimica Acta</i> , 2016, 219, 312-320. | 2.6 | 38 |
| 41 | Variation of carbon steel corrosion rate with flow conditions in the presence of an inhibitive formulation. <i>Corrosion Science</i> , 2008, 50, 1245-1250. | 3.0 | 36 |
| 42 | DFT studies of the bonding mechanism of 8-hydroxyquinoline and derivatives on the (111) aluminum surface. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22243-22258. | 1.3 | 36 |
| 43 | Study of the synergistic effect observed for the corrosion protection of a carbon steel by an association of phosphates. <i>Corrosion Science</i> , 2002, 44, 2055-2071. | 3.0 | 35 |
| 44 | Improvement of barrier properties of a hybrid sol-gel coating by incorporation of synthetic talc-like phyllosilicates for corrosion protection of a carbon steel. <i>Surface and Coatings Technology</i> , 2012, 206, 2884-2891. | 2.2 | 33 |
| 45 | Improvement of corrosion protection of steel by incorporation of a new phosphonated fatty acid in a phosphorus-containing polymer coating obtained by UV curing. <i>Progress in Organic Coatings</i> , 2014, 77, 285-291. | 1.9 | 33 |
| 46 | Characterisation of water-based coatings by electrochemical impedance spectroscopy. <i>Progress in Organic Coatings</i> , 2003, 46, 77-83. | 1.9 | 32 |
| 47 | Thermal activation of impedance measurements on an epoxy coating for the corrosion protection: 2. electrochemical impedance spectroscopy study. <i>Electrochimica Acta</i> , 2019, 305, 116-124. | 2.6 | 27 |
| 48 | Local Electrochemical Measurements in Bipolar Experiments for Corrosion Studies. <i>ChemElectroChem</i> , 2016, 3, 415-421. | 1.7 | 26 |
| 49 | Study of the electrochemical behaviour of the 7075 aluminum alloy in the presence of sodium oxalate. <i>Corrosion Science</i> , 1999, 41, 941-957. | 3.0 | 24 |
| 50 | Direct-to-metal UV-cured hybrid coating for the corrosion protection of aircraft aluminium alloy. <i>Corrosion Science</i> , 2014, 89, 242-249. | 3.0 | 24 |
| 51 | A local electrochemical impedance study of the self-healing properties of waterborne coatings on 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2016, 222, 1806-1817. | 2.6 | 24 |
| 52 | An electrochemical and surface analytical study of the formation of nanoporous oxides on niobium. <i>Electrochimica Acta</i> , 2007, 52, 7724-7731. | 2.6 | 23 |
| 53 | Electrochemical investigations on crevice corrosion of a martensitic stainless steel in a thin-layer cell. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 198-205. | 1.9 | 22 |
| 54 | A new look on the corrosion mechanism of magnesium: An EIS investigation at different pH. <i>Corrosion Science</i> , 2022, 205, 110463. | 3.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | New bio-based phosphorylated chitosan/alginate protective coatings on aluminum alloy obtained by the LbL technique. <i>Surfaces and Interfaces</i> , 2019, 16, 59-66. | 1.5 | 21 |
| 56 | An investigation on the corrosion of brass-coated steel cords for tyres by electrochemical techniques. <i>Corrosion Science</i> , 2001, 43, 413-427. | 3.0 | 20 |
| 57 | Multiscale Electrochemical Study of Welded Al Alloys Joined by Friction Stir Welding. <i>Journal of the Electrochemical Society</i> , 2017, 164, C735-C746. | 1.3 | 20 |
| 58 | Amorphous Alumina Coatings: Processing, Structure and Remarkable Barrier Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8387-8391. | 0.9 | 18 |
| 59 | Impedance analysis of the barrier effect of coil-coated materials: Water uptake and glass transition variations. <i>Progress in Organic Coatings</i> , 2021, 153, 106163. | 1.9 | 12 |
| 60 | Improvement of adherence and anticorrosion properties of an epoxy-polyamide coating on steel by incorporation of an indole-3 butyric acid-modified nanomagnetite. <i>Journal of Coatings Technology Research</i> , 2016, 13, 489-499. | 1.2 | 11 |
| 61 | Corrosion behaviour of an assembly between an AA1370 cable and a pure copper connector for car manufacturing applications. <i>Corrosion Science</i> , 2017, 119, 79-90. | 3.0 | 11 |
| 62 | Corrosion protection of Al(111) by 8-hydroxyquinoline: a comprehensive DFT study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21474-21486. | 1.3 | 10 |
| 63 | Evaluation of corrosion performance of a UV-cured polyurethane coating in the presence of organic phosphorous compounds. <i>Progress in Organic Coatings</i> , 2004, 49, 130-136. | 1.9 | 9 |
| 64 | Synthesis of new high molecular weight phosphorylated chitosans for improving corrosion protection. <i>Pure and Applied Chemistry</i> , 2019, 91, 509-521. | 0.9 | 9 |
| 65 | Hemiacetal Ester Exchanges, Study of Reaction Conditions and Mechanistic Pathway. <i>Reactions</i> , 2020, 1, 89-101. | 0.9 | 9 |
| 66 | Correlation between the physical structure of a commercially formulated epoxy paint and its electrochemical impedance response. <i>Progress in Organic Coatings</i> , 2020, 146, 105729. | 1.9 | 7 |
| 67 | Partially acrylated linseed oil UV-cured coating containing a dihemiacetal ester for the corrosion protection of an aluminium alloy. <i>Progress in Organic Coatings</i> , 2021, 158, 106344. | 1.9 | 7 |
| 68 | In situ study of the temperature activated kinetics of water sorption in an epoxy varnish. <i>Polymer</i> , 2021, 213, 123206. | 1.8 | 7 |
| 69 | Adherence Measurements and Corrosion Resistance in Primer/Hot-Dip Galvanized Steel Systems. <i>Journal of Adhesion</i> , 2013, 89, 339-357. | 1.8 | 6 |
| 70 | Film-Forming Amines for the Corrosion Protection of Carbon Steels in Nuclear Power Plant Secondary Circuit Conditions: An Impedance Study. <i>Journal of the Electrochemical Society</i> , 2020, 167, 061504. | 1.3 | 6 |
| 71 | 8-Hydroxyquinoline complexes (Alq3) on Al(111): atomic scale structure, energetics and charge distribution. <i>New Journal of Chemistry</i> , 2020, 44, 15209-15222. | 1.4 | 5 |
| 72 | Studies of the electro-oxidation of carbazole layer in protic acid media with a view to developing light-emitting diodes. <i>Polymer International</i> , 2001, 50, 84-88. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Mechanical and Surface Properties of Chemical Vapor Deposited Protective Aluminium Oxide Films on TA6V Alloy. <i>Advances in Science and Technology</i> , 0, , . | 0.2 | 4 |
| 74 | The Apparent CPE Behavior of a Disk Electrode with Faradaic Reactions: A Global and Local Impedance Analysis. <i>ECS Transactions</i> , 2006, 3, 567-585. | 0.3 | 3 |
| 75 | The Apparent CPE Behavior of a Disk Electrode with Faradaic Reactions. <i>ECS Meeting Abstracts</i> , 2006, , . | 0.0 | 2 |
| 76 | VFT to Arrhenius crossover at the dynamic glass transition of an epoxy network as revealed by dielectric experiments in continuous immersion. <i>Polymer</i> , 2022, 241, 124542. | 1.8 | 2 |
| 77 | Local Electrochemical Methods Adapted to Studying Environmentâ€™Microstructureâ€™Mechanics Couplings. , 2019, , 459-480. | | 1 |
| 78 | Local Electrochemical Impedance Spectroscopy: Theoretical and Experimental Considerations on Measurable Quantities. <i>ECS Meeting Abstracts</i> , 2007, , . | 0.0 | 0 |