# Francesco Carla

List of Publications by Year
in descending order

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Version: 2024-02-01

| 62 | 1,356 | 394421 | 361022 |
|---|---|---|---|
| papers | citations | 19 h-index | 35 g-index |

| 62 | 62 | 62 | 2207 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The thickness of native oxides on aluminum alloys and single crystals. Applied Surface Science, 2015, 349, 826-832. | 6.1 | 174 |
| 2 | Poly-Amide Modified Copper Foam Electrodes for Enhanced Electrochemical Reduction of Carbon Dioxide. ACS Catalysis, 2018, 8, 4132-4142. | 11.2 | 165 |
| 3 | Initial stages of Pt(111) electrooxidation: dynamic and structural studies by surface X-ray diffraction. Electrochimica Acta, 2017, 224, 220-227. | 5.2 | 71 |
| 4 | Structural Reorganization of Pt(111) Electrodes by Electrochemical Oxidation and Reduction. Journal of the American Chemical Society, 2017, 139, 4532-4539. | 13.7 | 70 |
| 5 | Muscovite mica: Flatter than a pancake. Surface Science, 2014, 619, 19-24. | 1.9 | 61 |
| 6 | Potential-Induced Pitting Corrosion of an IrO<sub>2</sub>(110)-RuO<sub>2</sub>(110)/Ru(0001) Model Electrode under Oxygen Evolution Reaction Conditions. ACS Catalysis, 2019, 9, 6530-6539. | 11.2 | 43 |
| 7 | Redefining passivity breakdown of super duplex stainless steel by electrochemical operando synchrotron near surface X-ray analyses. Npj Materials Degradation, 2019, 3, . | 5.8 | 36 |
| 8 | Structure and Nanomechanics of Model Membranes by Atomic Force Microscopy and Spectroscopy: Insights into the Role of Cholesterol and Sphingolipids. Membranes, 2016, 6, 58. | 3.0 | 35 |
| 9 | In-situ synchrotron GIXRD study of passive film evolution on duplex stainless steel in corrosive environment. Corrosion Science, 2018, 141, 18-21. | 6.6 | 32 |
| 10 | Epitaxial growth of gadolinium and lutetium-based aluminum perovskite thin films for X-ray micro-imaging applications. CrystEngComm, 2016, 18, 608-615. | 2.6 | 31 |
| 11 | Controlling the growth mode of para-sexiphenyl (6P) on ZnO by partial fluorination. Physical Chemistry Chemical Physics, 2014, 16, 26084-26093. | 2.8 | 30 |
| 12 | Electrochemical Oxidation of Smooth and Nanoscale Rough Pt(111): An In Situ Surface X-ray Scattering Study. Journal of the Electrochemical Society, 2017, 164, H608-H614. | 2.9 | 30 |
| 13 | Nanoparticles at Biomimetic Interfaces: Combined Experimental and Simulation Study on Charged Gold Nanoparticles/Lipid Bilayer Interfaces. Journal of Physical Chemistry Letters, 2019, 10, 129-137. | 4.6 | 30 |
| 14 | Metal ion-exchange on the muscovite mica surface. Surface Science, 2017, 665, 56-61. | 1.9 | 28 |
| 15 | Surface alloying upon Co intercalation between graphene and Ir(111). Carbon, 2015, 94, 554-559. | 10.3 | 27 |
| 16 | Shedding light on membrane-templated clustering of gold nanoparticles. Journal of Colloid and Interface Science, 2020, 573, 204-214. | 9.4 | 27 |
| 17 | Biogenic supported lipid bilayers as a tool to investigate nano-bio interfaces. Journal of Colloid and Interface Science, 2020, 570, 340-349. | 9.4 | 24 |
| 18 | Observation of Pore Growth and Self-Organization in Anodic Alumina by Time-Resolved X-ray Scattering. ACS Applied Nano Materials, 2018, 1, 1265-1271. | 5.0 | 22 |

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|---|---|---|---|
| 19 | Nanopatterned Ag substrates for SERS spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 4555. | 2.8 | 21 |
| 20 | Electrochemical Atomic Layer Deposition of CdS on Ag Single Crystals: Effects of Substrate Orientation on Film Structure. Journal of Physical Chemistry C, 2014, 118, 6132-6139. | 3.1 | 20 |
| 21 | Controlling the growth of Bi(110) and Bi(111) films on an insulating substrate. Nanotechnology, 2017, 28, 155602. | 2.6 | 20 |
| 22 | Integration of electrochemical and synchrotron-based X-ray techniques for in-situ investigation of aluminum anodization. Electrochimica Acta, 2017, 241, 299-308. | 5.2 | 19 |
| 23 | In Situ Studies of the Electrochemical Reduction of a Supported Ultrathin Single-Crystalline RuO<sub>2</sub>(110) Layer in an Acidic Environment. Journal of Physical Chemistry C, 2019, 123, 3979-3987. | 3.1 | 19 |
| 24 | Pt oxide and oxygen reduction at Pt(111) studied by surface X-ray diffraction. Electrochemistry Communications, 2017, 84, 50-52. | 4.7 | 18 |
| 25 | In situ anodization of aluminum surfaces studied by x-ray reflectivity and electrochemical impedance spectroscopy. Journal of Applied Physics, 2014, 116, . | 2.5 | 17 |
| 26 | Electrochemical Formation of Germanene: pH 4.5. Journal of the Electrochemical Society, 2017, 164, D469-D477. | 2.9 | 17 |
| 27 | Self-organization of porous anodic alumina films studied in situ by grazing-incidence transmission small-angle X-ray scattering. RSC Advances, 2018, 8, 18980-18991. | 3.6 | 17 |
| 28 | Influence of Surface Strain on Passive Film Formation of Duplex Stainless Steel and Its Degradation in Corrosive Environment. Journal of the Electrochemical Society, 2019, 166, C3071-C3080. | 2.9 | 17 |
| 29 | In situ studies of NO reduction by H<sub>2</sub> over Pt using surface X-ray diffraction and transmission electron microscopy. Physical Chemistry Chemical Physics, 2017, 19, 8485-8495. | 2.8 | 16 |
| 30 | In-plane molecular organization of hydrated single lipid bilayers: DPPC:cholesterol. Nanoscale, 2018, 10, 87-92. | 5.6 | 16 |
| 31 | Custom AFM for X-ray beamlines:in situbiological investigations under physiological conditions. Journal of Synchrotron Radiation, 2015, 22, 1364-1371. | 2.4 | 15 |
| 32 | Electrochemical characterization of core@shell CoFe2O4/Au composite. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 14 |
| 33 | Combined scanning probe microscopy and x-ray scattering instrument for in situ catalysis investigations. Review of Scientific Instruments, 2016, 87, 113705. | 1.3 | 12 |
| 34 | In Situ Scanning Tunneling Microscopy Investigation of Sulfur Oxidative Underpotential Deposition on Ag(100) and Ag(110). Langmuir, 2010, 26, 17679-17685. | 3.5 | 10 |
| 35 | Dibenzo Crown Ether Layer Formation on Muscovite Mica. Langmuir, 2014, 30, 12570-12577. | 3.5 | 9 |
| 36 | Operando SXRD study of the structure and growth process of Cu2S ultra-thin films. Scientific Reports, 2017, 7, 1615. | 3.3 | 9 |

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|---|---|---|---|
| 37 | Oxidation of CO on Pd(1ÂÔÂ0): on the structural evolution of the PdO layer during the self sustained oscillation regime. Journal of Lithic Studies, 2017, 3, 89-94. | 0.5 | 9 |
| 38 | The structural evolution of graphene/Fe(110) systems upon annealing. Carbon, 2017, 111, 113-120. | 10.3 | 9 |
| 39 | A novel 3D printed radial collimator for x-ray diffraction. Review of Scientific Instruments, 2019, 90, 035102. | 1.3 | 9 |
| 40 | Simultaneous scanning tunneling microscopy and synchrotron X-ray measurements in a gas environment. Ultramicroscopy, 2017, 182, 233-242. | 1.9 | 8 |
| 41 | Physical Characterization of Thin Films of CuxZnySz for Photovoltaic Applications. ECS Transactions, 2013, 58, 59-65. | 0.5 | 7 |
| 42 | Synchrotron based operando surface Xâ€ray scattering study towards structureâ€“activity relationships of model electrocatalysts. ChemistrySelect, 2016, 1, 1104-1108. | 1.5 | 7 |
| 43 | Confined electrodeposition using a template-assisted procedure based on the selective desorption of a short chain thiol from a binary self-assembled monolayer formed on Ag(111). Electrochimica Acta, 2010, 55, 2550-2554. | 5.2 | 6 |
| 44 | Influence of C60 co-deposition on the growth kinetics of diindenoperyleneâ€“From rapid roughening to layer-by-layer growth in blended organic films. Journal of Chemical Physics, 2017, 146, 052807. | 3.0 | 6 |
| 45 | Multiple timescales in the photoswitching kinetics of crystalline thin films of azobenzene-trimers. Journal of Physics Condensed Matter, 2017, 29, 434001. | 1.8 | 6 |
| 46 | Intermediate phase with orthorhombic symmetry displacement patterns in epitaxial PbZrO<sub>3</sub> thin films at high temperatures. Ferroelectrics, 2018, 533, 26-34. | 0.6 | 6 |
| 47 | Regular Network of Misfit Dislocations at the BaZr<sub>0.8</sub>Y<sub>0.2</sub>O<sub>3â^'x</sub>/NdGaO<sub>3</sub> Interface and Its Role in Proton Conductivity. Physica Status Solidi (B): Basic Research, 2019, 256, 1800217. | 1.5 | 6 |
| 48 | Patterning enhanced tetragonality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin films with effective negative pressure by helium implantation. Physical Review Materials, 2021, 5, . | 2.4 | 6 |
| 49 | Quantitative powder diffraction using a (2â€…+â€…3) surface diffractometer and an area detector. Journal of Applied Crystallography, 2021, 54, 1140-1152. | 4.5 | 6 |
| 50 | Confined Electrodeposition of CdS in the Holes Left by the Selective Desorption of 3-Mercapto-1-propionic Acid from a Binary Self-Assembled Monolayer Formed with 1-Octanethiol. Langmuir, 2010, 26, 1802-1806. | 3.5 | 5 |
| 51 | An in-situ X-ray diffraction study on the electrochemical formation of PtZn alloys on Pt(1 1 1) single crystal electrode. Applied Surface Science, 2015, 354, 443-449. | 6.1 | 5 |
| 52 | Operando SXRD of E-ALD deposited sulphides ultra-thin films: Crystallite strain and size. Applied Surface Science, 2018, 432, 53-59. | 6.1 | 5 |
| 53 | Structure of the Surface Region of Stainless Steel: Bulk and Thin Films. Physica Status Solidi (B): Basic Research, 2022, 259, . | 1.5 | 5 |
| 54 | Templated electrodeposition as a scalable and surfactant-free approach to the synthesis of Au nanoparticles with tunable aspect ratios. Nanoscale Advances, 2022, 4, 2452-2467. | 4.6 | 5 |

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|---|---|---|---|
| 55 | Synthesis and Technological Application of Electrodeposited Semiconductors by EC-ALD. ECS Transactions, 2014, 58, 35-41. | 0.5 | 4 |
| 56 | Organothiol Monolayer Formation Directly on Muscovite Mica. Angewandte Chemie - International Edition, 2020, 59, 2323-2327. | 13.8 | 4 |
| 57 | Co film stretching induced by lattice mismatch and annealing: The role of Graphene. Applied Surface Science, 2018, 432, 22-26. | 6.1 | 3 |
| 58 | In-situ Monitoring of Electrochemical Oxidative Adsorption of Sulfur on Silver Single Crystals by Scanning Tunneling Microscopy. ECS Transactions, 2010, 25, 17-26. | 0.5 | 2 |
| 59 | Combined electrochemical atomic layer epitaxy and microcontact printing techniques. Materials Science in Semiconductor Processing, 2009, 12, 21-24. | 4.0 | 2 |
| 60 | Studying the onset of galvanic steel corrosion in situ using thin films: film preparation, characterization and application to pitting. Journal of Physics Condensed Matter, 2021, 33, 125001. | 1.8 | 2 |
| 61 | Organothiol Monolayer Formation Directly on Muscovite Mica. Angewandte Chemie, 2020, 132, 2343-2347. | 2.0 | 1 |
| 62 | Phase Transitions and the Condition of Near-Interface Layer in PbZrO<sub>3</sub> Epitaxial Films on SrRuO<sub>3</sub>/SrTiO<sub>3</sub> Substrate. Key Engineering Materials, 0, 806, 93-99. | 0.4 | 0 |