

Francisco J Vidal-Iglesias

List of Publications by Year in descending order

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74
papers

4,223
citations

108046

37
h-index

124990

64
g-index

78
all docs

78
docs citations

78
times ranked

4055
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Investigating the presence of adsorbed species on Pt steps at low potentials. Nature Communications, 2022, 13, 2550. | 5.8 | 37 |
| 2 | Surface Structure Characterization of Shape and Size Controlled Pd Nanoparticles by Cu UPD: A Quantitative Approach. Frontiers in Chemistry, 2019, 7, 527. | 1.8 | 20 |
| 3 | Mobility and Oxidation of Adsorbed CO on Shape-Controlled Pt Nanoparticles in Acidic Medium. Langmuir, 2017, 33, 865-871. | 1.6 | 20 |
| 4 | Chronoamperometric Study of Ammonia Oxidation in a Direct Ammonia Alkaline Fuel Cell under the Influence of Microgravity. Microgravity Science and Technology, 2017, 29, 253-261. | 0.7 | 12 |
| 5 | Understanding CO oxidation reaction on platinum nanoparticles. Journal of Electroanalytical Chemistry, 2017, 793, 126-136. | 1.9 | 22 |
| 6 | Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. Nanostructure Science and Technology, 2016, , 31-92. | 0.1 | 8 |
| 7 | Electrochemical Characterisation of Platinum Nanoparticles Prepared in a Water-in-Oil Microemulsion in the Presence of Different Modifiers and Metal Precursors. ChemElectroChem, 2016, 3, 1601-1608. | 1.7 | 9 |
| 8 | Carbon materials for the electrooxidation of nucleobases, nucleosides and nucleotides toward cytosine methylation detection: a review. Analytical Methods, 2016, 8, 702-715. | 1.3 | 31 |
| 9 | Electrochemical detection of cytosine and 5-methylcytosine on Au(111) surfaces. Electrochemistry Communications, 2016, 65, 27-30. | 2.3 | 10 |
| 10 | Adatom modified shape-controlled platinum nanoparticles towards ethanol oxidation. Electrochimica Acta, 2016, 196, 270-279. | 2.6 | 15 |
| 11 | Ethanol oxidation on shape-controlled platinum nanoparticles at different pHs: A combined in situ IR spectroscopy and online mass spectrometry study. Journal of Electroanalytical Chemistry, 2016, 763, 116-124. | 1.9 | 46 |
| 12 | Oxidation of ethanol on platinum nanoparticles: surface structure and aggregation effects in alkaline medium. Journal of Solid State Electrochemistry, 2016, 20, 1095-1106. | 1.2 | 20 |
| 13 | Influence of the metal loading on the electrocatalytic activity of carbon-supported (100) Pt nanoparticles. Journal of Solid State Electrochemistry, 2016, 20, 1107-1118. | 1.2 | 7 |
| 14 | Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2016, , 1101-1125. | | 0 |
| 15 | Electrochemical Oxidation of Small Organic Molecules on Au Nanoparticles with Preferential Surface Orientation. ChemElectroChem, 2015, 2, 958-962. | 1.7 | 18 |
| 16 | Electrochemical Characterization of Clean Shape-Controlled Pt Nanoparticles Prepared in Presence of Oleylamine/Oleic Acid. Electroanalysis, 2015, 27, 945-956. | 1.5 | 47 |
| 17 | Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2015, , 1-21. | | 0 |
| 18 | Carbon-supported shape-controlled Pt nanoparticle electrocatalysts for direct alcohol fuel cells. Electrochemistry Communications, 2015, 55, 47-50. | 2.3 | 39 |

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|----|---|------|-----------|
| 19 | Spectroelectrochemical behavior of 4-aminobenzenethiol on nanostructured platinum and silver electrodes. <i>Surface Science</i> , 2015, 631, 213-219. | 0.8 | 8 |
| 20 | Formic acid electrooxidation on thallium-decorated shape-controlled platinum nanoparticles: an improvement in electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13616-13624. | 1.3 | 27 |
| 21 | Synthesis and Electrocatalytic Properties of H ₂ SO ₄ -Induced (100) Pt Nanoparticles Prepared in Water-in-Oil Microemulsion. <i>ChemPhysChem</i> , 2014, 15, 1997-2001. | 1.0 | 20 |
| 22 | On the behavior of CO oxidation on shape-controlled Pt nanoparticles in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , 2014, 716, 16-22. | 1.9 | 26 |
| 23 | Synthesis of Pt Nanoparticles in Water-in-Oil Microemulsion: Effect of HCl on Their Surface Structure. <i>Journal of the American Chemical Society</i> , 2014, 136, 1280-1283. | 6.6 | 124 |
| 24 | Surface structure and anion effects in the oxidation of ethanol on platinum nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7068. | 5.2 | 52 |
| 25 | Tailoring properties of platinum supported catalysts by irreversible adsorbed adatoms toward ethanol oxidation for direct ethanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 378-385. | 10.8 | 33 |
| 26 | Citrate adsorption on Pt{hkl} electrodes and its role in the formation of shaped Pt nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 249-256. | 1.9 | 25 |
| 27 | Electrodeposited platinum thin films with preferential (100) orientation: Characterization and electrocatalytic properties for ammonia and formic acid oxidation. <i>Journal of Power Sources</i> , 2013, 225, 323-329. | 4.0 | 52 |
| 28 | Do You Really Understand the Electrochemical Nernst Equation?. <i>Electrocatalysis</i> , 2013, 4, 1-9. | 1.5 | 4 |
| 29 | Nitrate reduction at Pt(100) single crystals and preferentially oriented nanoparticles in neutral media. <i>Catalysis Today</i> , 2013, 202, 2-11. | 2.2 | 50 |
| 30 | Towards More Active and Stable Electrocatalysts for Formic Acid Electrooxidation: Antimony-Decorated Octahedral Platinum Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 964-967. | 7.2 | 52 |
| 31 | Au Electrocatalysis for Oxygen Reduction. <i>Lecture Notes in Energy</i> , 2013, , 483-512. | 0.2 | 2 |
| 32 | Nitrate Reduction on Platinum (111) Surfaces Modified with Bi: Single Crystals and Nanoparticles. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 901-917. | 1.4 | 6 |
| 33 | Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. <i>Chemical Science</i> , 2012, 3, 136-147. | 3.7 | 109 |
| 34 | SERS on (111) Surface Nanofacets at Pt Nanoparticles: The Case of Acetaldehyde Oxime Reduction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10781-10789. | 1.5 | 11 |
| 35 | Understanding the Nernst Equation and Other Electrochemical Concepts: An Easy Experimental Approach for Students. <i>Journal of Chemical Education</i> , 2012, 89, 936-939. | 1.1 | 38 |
| 36 | Effect of the nature of (100) surface sites on the electroactivity of macroscopic Pt electrodes for the electrooxidation of ammonia. <i>Electrochemistry Communications</i> , 2012, 22, 197-199. | 2.3 | 43 |

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|----|--|-----|-----------|
| 37 | Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10258. | 1.3 | 90 |
| 38 | Pd-Modified Shape-Controlled Pt Nanoparticles Towards Formic Acid Electrooxidation. <i>Electrocatalysis</i> , 2012, 3, 313-323. | 1.5 | 13 |
| 39 | Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. <i>ACS Catalysis</i> , 2012, 2, 901-910. | 5.5 | 238 |
| 40 | Errors in the use of the Koutecky-Levich plots. <i>Electrochemistry Communications</i> , 2012, 15, 42-45. | 2.3 | 27 |
| 41 | Significantly Enhancing Catalytic Activity of Tetrahedral Pt Nanocrystals by Bi Adatom Decoration. <i>Journal of the American Chemical Society</i> , 2011, 133, 12930-12933. | 6.6 | 132 |
| 42 | Preparation, characterization and catalytic performance of a novel Pt/SiC. <i>Electrochemistry Communications</i> , 2011, 13, 1309-1312. | 2.3 | 22 |
| 43 | Size and diffusion effects on the oxidation of formic acid and ethanol on platinum nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 1194-1197. | 2.3 | 35 |
| 44 | On the behavior of the Pt(100) and vicinal surfaces in alkaline media. <i>Electrochimica Acta</i> , 2011, 58, 184-192. | 2.6 | 55 |
| 45 | Adsorption of Formate and Its Role as Intermediate in Formic Acid Oxidation on Platinum Electrodes. <i>ChemPhysChem</i> , 2011, 12, 1641-1644. | 1.0 | 74 |
| 46 | Evaluating the ozone cleaning treatment in shape-controlled Pt nanoparticles: Evidences of atomic surface disordering. <i>Electrochemistry Communications</i> , 2011, 13, 502-505. | 2.3 | 74 |
| 47 | Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and Pd-M nanoalloys in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2011, 56, 6702-6708. | 2.6 | 68 |
| 48 | Pd Adatom Decorated (100) Preferentially Oriented Pt Nanoparticles for Formic Acid Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6998-7001. | 7.2 | 86 |
| 49 | Scanning electrochemical microscopy for studying electrocatalysis on shape-controlled gold nanoparticles and nanorods. <i>Electrochimica Acta</i> , 2010, 55, 8252-8257. | 2.6 | 50 |
| 50 | Imaging Structure Sensitive Catalysis on Different Shape-Controlled Platinum Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 5622-5624. | 6.6 | 220 |
| 51 | CO monolayer oxidation on stepped Pt(S) [(111)(100)-(110)] surfaces. <i>Electrochimica Acta</i> , 2009, 54, 4459-4466. | 2.6 | 62 |
| 52 | Alkylidynes-modified Pt nanoparticles: A spectroelectrochemical (SERS) and electrocatalytic study. <i>Electrochimica Acta</i> , 2009, 54, 6971-6977. | 2.6 | 4 |
| 53 | Electrochemical characterisation of gold on Pt{hkl} for ethanol electrocatalysis. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 123-130. | 1.9 | 26 |
| 54 | Formic acid electrooxidation on Bi-modified Pt(110) single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 637, 63-71. | 1.9 | 35 |

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|----|--|-----|-----------|
| 55 | Electrooxidation of methanol and 2-propanol mixtures at platinum single crystal electrodes. <i>Electrochimica Acta</i> , 2009, 54, 6576-6583. | 2.6 | 42 |
| 56 | Formic acid electrooxidation on Bi-modified polyoriented and preferential (111) Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 416-424. | 1.3 | 65 |
| 57 | A study of the growth and CO electrooxidation behaviour of PtRh alloys on Pt{100} single crystals. <i>Journal of Electroanalytical Chemistry</i> , 2008, 622, 73-78. | 1.9 | 19 |
| 58 | Shape-dependent electrocatalysis: methanol and formic acid electrooxidation on preferentially oriented Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3689. | 1.3 | 265 |
| 59 | Microwave properties of platinum nanoparticle films. , 2008, , . | | 3 |
| 60 | Electrochemical characterization of PtPd alloy single crystal surfaces prepared using Pt basal planes as templates. <i>Journal of Electroanalytical Chemistry</i> , 2007, 611, 117-125. | 1.9 | 20 |
| 61 | Screening of electrocatalysts for direct ammonia fuel cell: Ammonia oxidation on PtMe (Me: Ir, Rh, Pd,) Tj ETQq1 1 0.784314 $\mu\text{gBT} / \text{Over}$ | 4.0 | 194 |
| 62 | A new method for the preparation of PtPd alloy single crystal surfaces. <i>Electrochemistry Communications</i> , 2006, 8, 1147-1150. | 2.3 | 23 |
| 63 | Evidence by SERS of azide anion participation in ammonia electrooxidation in alkaline medium on nanostructured Pt electrodes. <i>Electrochemistry Communications</i> , 2006, 8, 102-106. | 2.3 | 61 |
| 64 | CO monolayer oxidation on semi-spherical and preferentially oriented (100) and (111) platinum nanoparticles. <i>Electrochemistry Communications</i> , 2006, 8, 189-194. | 2.3 | 160 |
| 65 | DEMS study of ammonia oxidation on platinum basal planes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 331-338. | 1.9 | 99 |
| 66 | Formic acid oxidation on Pd-modified Pt(100) and Pt(111) electrodes: A DEMS study. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 1207-1214. | 1.5 | 42 |
| 67 | Specific surface reactions for identification of platinum surface domains. <i>Electrochimica Acta</i> , 2005, 50, 4308-4317. | 2.6 | 83 |
| 68 | Electrochemical characterization of irreversibly adsorbed germanium on platinum stepped surfaces vicinal to Pt(100). <i>Electrochimica Acta</i> , 2005, 50, 3111-3121. | 2.6 | 57 |
| 69 | Ammonia Selective Oxidation on Pt(100) Sites in an Alkaline Medium. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12914-12919. | 1.2 | 118 |
| 70 | Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. <i>Analytical Chemistry</i> , 2005, 77, 5317-5323. | 3.2 | 66 |
| 71 | In Situ Surface Characterization of Preferentially Oriented Platinum Nanoparticles by Using Electrochemical Structure Sensitive Adsorption Reactions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13573-13575. | 1.2 | 116 |
| 72 | Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. <i>Electrochemistry Communications</i> , 2004, 6, 1080-1084. | 2.3 | 218 |

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|----|--|-----|-----------|
| 73 | Electrochemical characterization of platinum–ruthenium nanoparticles prepared by water-in-oil microemulsion. <i>Electrochimica Acta</i> , 2004, 49, 5079-5088. | 2.6 | 100 |
| 74 | Selective electrocatalysis of ammonia oxidation on Pt(100) sites in alkaline medium. <i>Electrochemistry Communications</i> , 2003, 5, 22-26. | 2.3 | 148 |