# Francesco Vizza

## List of Publications by Year in descending order

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|---|---|---|---|
| 226 papers | 9,766 citations | 28272 55 h-index | 53222 85 g-index |
| 261 all docs | 261 docs citations | 261 times ranked | 8185 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pd and Ptâ€“Ru anode electrocatalysts supported on multi-walled carbon nanotubes and their use in passive and active direct alcohol fuel cells with an anion-exchange membrane (alcohol=methanol,) Tj ETQq1 1 0.784314 rgBT /Overlock | 4.3 | 14 |
| 2 | Coordination chemistry of 1,3,5-triaza-7-phosphaadamantane (PTA). Coordination Chemistry Reviews, 2004, 248, 955-993. | 18.8 | 392 |
| 3 | N-Doped Graphitized Carbon Nanohorns as a Forefront Electrocatalyst in Highly Selective O2 Reduction to H2O2. CheM, 2018, 4, 106-123. | 11.7 | 348 |
| 4 | Nanotechnology makes biomass electrolysis more energy efficient than water electrolysis. Nature Communications, 2014, 5, 4036. | 12.8 | 290 |
| 5 | A Pd/Câ€CeO<sub>2</sub> Anode Catalyst for Highâ€Performance Platinumâ€Free Anion Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 6004-6007. | 13.8 | 199 |
| 6 | Selective oxidation of ethanol to acetic acid in highly efficient polymer electrolyte membrane-direct ethanol fuel cells. Electrochemistry Communications, 2009, 11, 1077-1080. | 4.7 | 160 |
| 7 | Highly active nanostructured palladium-ceria electrocatalysts for the hydrogen oxidation reaction in alkaline medium. Nano Energy, 2017, 33, 293-305. | 16.0 | 147 |
| 8 | Synthesis, catalytic properties and biological activity of new water soluble ruthenium cyclopentadienyl PTA complexes [(C5R5)RuCl(PTA)2] (R = H, Me; PTA =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (1,3,5-triaza-7-pho 31P{1H}, 1H, 13C NMR characterisation and elemental analysis of 1 and 2. See http://www.rsc.org/suppdata/cc/b2/b210102e/. Chemical Communications, 2003, , 264-265. | 4.1 | 143 |
| 9 | Electrooxidation of Ethylene Glycol and Glycerol on Pdâ€(Niâ€Zn)/C Anodes in Direct Alcohol Fuel Cells. ChemSusChem, 2013, 6, 518-528. | 6.8 | 138 |
| 10 | Preparation, Characterization, and Performance of Tripodal Polyphosphine Rhodium Catalysts Immobilized on Silica via Hydrogen Bonding. Journal of the American Chemical Society, 1999, 121, 5961-5971. | 13.7 | 137 |
| 11 | Tripodal polyphosphine ligands control selectivity of organometallic reactions. Coordination Chemistry Reviews, 1992, 120, 193-208. | 18.8 | 121 |
| 12 | Opening, desulfurization, and hydrogenation of thiophene at iridium. An experimental study in a homogeneous phase. Journal of the American Chemical Society, 1993, 115, 2731-2742. | 13.7 | 115 |
| 13 | Tripodal polyphosphine ligands in homogeneous catalysis. 1. Hydrogenation and hydroformylation of alkynes and alkenes assisted by organorhodium complexes with MeC(CH2PPh2)3. Organometallics, 1990, 9, 226-240. | 2.3 | 113 |
| 14 | HDS Model Systems. Coordination, Opening, and Hydrogenation of Benzo[b]thiophene at Iridium. Journal of the American Chemical Society, 1994, 116, 4370-4381. | 13.7 | 112 |
| 15 | Ethanol Oxidation on Electrocatalysts Obtained by Spontaneous Deposition of Palladium onto Nickelâ€Zinc Materials. ChemSusChem, 2009, 2, 99-112. | 6.8 | 110 |
| 16 | Selfâ€Sustainable Production of Hydrogen, Chemicals, and Energy from Renewable Alcohols by Electrocatalysis. ChemSusChem, 2010, 3, 851-855. | 6.8 | 110 |
| 17 | Single-site and nanosized Feâ€“Co electrocatalysts for oxygen reduction: Synthesis, characterization and catalytic performance. Journal of Power Sources, 2011, 196, 2519-2529. | 7.8 | 99 |
| 18 | Recent Technological Progress in CO<sub>2</sub> Electroreduction to Fuels and Energy Carriers in Aqueous Environments. Energy Technology, 2015, 3, 197-210. | 3.8 | 98 |

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|---|---|---|---|
| 19 | Electro-oxidation of ethylene glycol and glycerol at palladium-decorated FeCo@Fe coreâ€“shell nanocatalysts for alkaline direct alcohol fuel cells: functionalized MWCNT supports and impact on product selectivity. Journal of Materials Chemistry A, 2015, 3, 7145-7156. | 10.3 | 95 |
| 20 | Energy Efficiency Enhancement of Ethanol Electrooxidation on Pdâ€“CeO<sub>2</sub>/C in Passive and Active Polymer Electrolyteâ€Membrane Fuel Cells. ChemSusChem, 2012, 5, 1266-1273. | 6.8 | 94 |
| 21 | Beyond 1.0ÂW cm<sup>â^'2</sup>Performance without Platinum: The Beginning of a New Era in Anion Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2018, 165, J3039-J3044. | 2.9 | 91 |
| 22 | A homogeneous iron(II) system capable of selectivity catalyzing the reduction of terminal alkynes to alkenes and buta-1,3-dienes. Organometallics, 1989, 8, 2080-2082. | 2.3 | 86 |
| 23 | A comparison between silica-immobilized ruthenium(II) single sites and silica-supported ruthenium nanoparticles in the catalytic hydrogenation ofÂmodel hetero- and polyaromatics contained in raw oil materials. Journal of Catalysis, 2003, 213, 47-62. | 6.2 | 83 |
| 24 | Preparation, Characterization, and Performance of the Supported Hydrogen-Bonded Ruthenium Catalyst [(sulphos)Ru(NCMe)3](OSO2CF3)/SiO2. Comparisons with Analogous Homogeneous and Aqueous-Biphase Catalytic Systems in the Hydrogenation of Benzylideneacetone and Benzonitrile. Organometallics, 2000, 19, 2433-2444. | 2.3 | 82 |
| 25 | Hydrodesulfurization (HDS) Model Systems. Opening, Hydrogenation, and Hydrodesulfurization of Dibenzothiophene (DBT) at Iridium. First Case of Catalytic HDS of DBT in Homogeneous Phase. Organometallics, 1995, 14, 2342-2352. | 2.3 | 81 |
| 26 | In situFTIR spectroelectrochemical study on the mechanism of ethylene glycol electrocatalytic oxidation at a Pd electrode. Physical Chemistry Chemical Physics, 2011, 13, 2667-2673. | 2.8 | 81 |
| 27 | Liquid-Biphase Hydrogenolysis of Benzo[b]thiophene by Rhodium Catalysis. Journal of the American Chemical Society, 1997, 119, 4945-4954. | 13.7 | 79 |
| 28 | In Situ High-Pressure 31P{1H} NMR Studies of the Hydroformylation of 1-Hexene by RhH(CO)(PPh3)3. Organometallics, 2000, 19, 849-853. | 2.3 | 79 |
| 29 | An .eta.4-benzene species mediates acetylene cyclotrimerization. Journal of the American Chemical Society, 1991, 113, 5127-5129. | 13.7 | 77 |
| 30 | A Biologically Inspired Organometallic Fuel Cell (OMFC) That Converts Renewable Alcohols into Energy and Chemicals. Angewandte Chemie - International Edition, 2010, 49, 7229-7233. | 13.8 | 76 |
| 31 | Electronic Influence of the Thienyl Sulfur Atom on the Oligomerization of Ethylene by Cobalt(II) 6-(Thienyl)-2-(imino)pyridine Catalysis. Organometallics, 2007, 26, 726-739. | 2.3 | 74 |
| 32 | Homogeneous Reactions of Thiophenes with Transition Metals: A Modeling Approach for Elucidation of the Hydrodesulfurization Mechanism and an Effective Method for the Synthesis of Unusual Organosulfur Compounds. Journal of the American Chemical Society, 1995, 117, 4333-4346. | 13.7 | 73 |
| 33 | Palladium Nanoparticles Supported on Hyperbranched Aramids:Â Synthesis, Characterization, and Some Applications in the Hydrogenation of Unsaturated Substrates. Macromolecules, 2003, 36, 4294-4301. | 4.8 | 73 |
| 34 | A novel oxygen-carrying and activating system of rhodium(III). Oxidation and oxygenation reactions of 3,5-di-tert-butylcatechol catalyzed by a rhodium(III) cathecolate through its (.eta.1-superoxo)(.eta.2-semiquinonato)rhodium(III) complex. Inorganic Chemistry, 1990, 29, 3402-3409. | 4.0 | 71 |
| 35 | Water soluble ruthenium cyclopentadienyl and aminocyclopentadienyl PTA complexes as catalysts for selective hydrogenation of Î±,Î²-unsaturated substrates (PTA=1,3,5-triaza-7-phosphaadamantane). Journal of Molecular Catalysis A, 2004, 224, 61-70. | 4.8 | 71 |
| 36 | Zinc Coordination Polymers with 2,6-Bis(imidazole-1-yl)pyridine and Benzenecarboxylate:Pseudo-Supramolecular Isomers with and without Interpenetration and Unprecedented Trinodal Topology. Crystal Growth and Design, 2011, 11, 1230-1237. | 3.0 | 71 |

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| 37 | Ligand and Solvent Effects in the Alternating Copolymerization of Carbon Monoxide and Olefins by Palladiumâ˜Diphosphine Catalysis. Organometallics, 2002, 21, 16-33. | 2.3 | 70 |
| 38 | Hydrogenation of Arenes over Silica-Supported Catalysts That Combine a Grafted Rhodium Complex and Palladium Nanoparticles:â€‰ Evidence for Substrate Activation on Rhsingle-siteâ˜Pdmetal Moieties. Journal of the American Chemical Society, 2006, 128, 7065-7076. | 13.7 | 70 |
| 39 | Molecular solid-state organometallic chemistry of tripodal (polyphosphine)metal complexes. Catalytic hydrogenation of ethylene at iridium. Journal of the American Chemical Society, 1993, 115, 1753-1759. | 13.7 | 69 |
| 40 | The Catalytic Transformation of Benzo[b]thiophene to 2-Ethylthiophenol by a Soluble Rhodium Complex: The Reaction Mechanism Involves Ring Opening Prior to Hydrogenation. Journal of the American Chemical Society, 1995, 117, 8567-8575. | 13.7 | 68 |
| 41 | Water-Soluble Palladium(II) Catalysts for the Alternating Co- and Terpolymerization of CO and Olefins in Aqueous Phase. Macromolecules, 1999, 32, 3859-3866. | 4.8 | 67 |
| 42 | Modelling the Hydrodenitrogenation of Aromatic N-Heterocycles in the Homogeneous Phase. European Journal of Inorganic Chemistry, 2001, 2001, 43-68. | 2.0 | 65 |
| 43 | Activation and Functionalization of White Phosphorus at Rhodium: Experimental and Computational Analysis of the[(triphos)Rh (Î·1:Î·2-P4RRâ€²)]Y Complexes (triphos=MeC(CH2PPh2)3; R=H, Alkyl, Aryl; Râ€²=2) Tj ET Q q 1 1 0.784314 rg | 13.7 | 64 |
| 44 | Electrochemical Milling and Faceting: Size Reduction and Catalytic Activation of Palladium Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 8500-8504. | 13.8 | 63 |
| 45 | Facile Preparation of an Ether-Free Anion Exchange Membrane with Pendant Cyclic Quaternary Ammonium Groups. ACS Applied Energy Materials, 2019, 2, 4576-4581. | 5.1 | 63 |
| 46 | The Mechanism of Acetylene Cyclotrimerization Catalyzed by the fac-IrP3+ Fragment: The Relationship between Fluxionality and Catalysis. Organometallics, 1994, 13, 2010-2023. | 2.3 | 62 |
| 47 | Immobilization of Optically Active Rhodium-Diphosphine Complexes on Porous Silica via Hydrogen Bonding. Advanced Synthesis and Catalysis, 2001, 343, 41-45. | 4.3 | 62 |
| 48 | Ethylene Glycol Electrooxidation on Smooth and Nanostructured Pd Electrodes in Alkaline Media. Fuel Cells, 2010, 10, 582-590. | 2.4 | 61 |
| 49 | Domino Rhodium/Palladiumâ€Catalyzed Dehydrogenation Reactions of Alcohols to Acids by Hydrogen Transfer to Inactivated Alkenes. Chemistry - A European Journal, 2010, 16, 2751-2757. | 3.3 | 61 |
| 50 | Embedded Ru@ZrO<sub>2</sub> Catalysts for H<sub>2</sub> Production by Ammonia Decomposition. ChemCatChem, 2010, 2, 1096-1106. | 3.7 | 59 |
| 51 | Energy Efficiency of Alkaline Direct Ethanol Fuel Cells Employing Nanostructured Palladium Electrocatalysts. ChemCatChem, 2015, 7, 2214-2221. | 3.7 | 58 |
| 52 | Chemoselective oxidation of 3,5-di-tert-butylcatechol by molecular oxygen. Catalysis by an iridium(III) catecholate through its dioxygen adduct. Inorganic Chemistry, 1992, 31, 1523-1529. | 4.0 | 57 |
| 53 | Activation of Molecular Hydrogen over a Binuclear Complex with Rh2S2Core:Â DFT Calculations and NMR Mechanistic Studies. Journal of the American Chemical Society, 2004, 126, 11954-11965. | 13.7 | 57 |
| 54 | Carbon supported Rh nanoparticles for the production of hydrogen and chemicals by the electroreforming of biomass-derived alcohols. RSC Advances, 2017, 7, 13971-13978. | 3.6 | 57 |

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| 55 | Direct Alcohol Fuel Cells: Toward the Power Densities of Hydrogenâ€Fed Proton Exchange Membrane Fuel Cells. ChemSusChem, 2015, 8, 524-533. | 6.8 | 56 |
| 56 | Palladiumâ€“Ceria Catalysts with Enhanced Alkaline Hydrogen Oxidation Activity for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2019, 2, 4999-5008. | 5.1 | 56 |
| 57 | Energy Savings in the Conversion of CO<sub>2</sub> to Fuels using an Electrolytic Device. Energy Technology, 2014, 2, 522-525. | 3.8 | 55 |
| 58 | Mimicking the HDS Activity of Ruthenium-Based Catalysts. Homogeneous Hydrogenolysis of Benzo[b]thiophene. Organometallics, 1998, 17, 2636-2645. | 2.3 | 54 |
| 59 | Mimicking the HDS Activity of Ruthenium-Based Catalysts 2:Â The Hydrogenation of Benzo[b]thiophene to 2,3-Dihydrobenzo[b]thiophene. Journal of the American Chemical Society, 1999, 121, 7071-7080. | 13.7 | 54 |
| 60 | Improvement in the efficiency of an OrganoMetallic Fuel Cell by tuning the molecular architecture of the anode electrocatalyst and the nature of the carbon support. Energy and Environmental Science, 2012, 5, 8608. | 30.8 | 54 |
| 61 | Synthesis and Characterisation oftetrahedro-Tetraphosphorus Complexes of Rhenium â€“ Evidence for the First Bridging Complex of White Phosphorus. European Journal of Inorganic Chemistry, 1999, 1999, 931-933. | 2.0 | 53 |
| 62 | Dioxygen uptake and transfer by Co(III), Rh(III) and Ir(III) catecholate complexes. Inorganica Chimica Acta, 1992, 198-200, 31-56. | 2.4 | 52 |
| 63 | Copolymerization of Carbon Monoxide with Ethene Catalyzed by Palladium(II) Complexes of 1,3-Bis(diphenylphosphino)propane Ligands Bearing Different Substituents on the Carbon Backbone. Macromolecules, 1999, 32, 4183-4193. | 4.8 | 51 |
| 64 | New structurally rigid palladium catalysts for the alternating copolymerization of carbon monoxide and ethene. Chemical Communications, 2000, , 777-778. | 4.1 | 50 |
| 65 | Synthesis and Reactivity of the Labile Dihydrogen Complex [{MeC(CH2PPh2)3}Ir(H2)(H)2]BPh4. Inorganic Chemistry, 1997, 36, 5818-5825. | 4.0 | 49 |
| 66 | A Pd/Câ€CeO<sub>2</sub> Anode Catalyst for Highâ€Performance Platinumâ€Free Anion Exchange Membrane Fuel Cells. Angewandte Chemie, 2016, 128, 6108-6111. | 2.0 | 47 |
| 67 | Hydrodesulfurization model systems. Homogeneous and heterogeneous (solid-gas) hydrogenation of benzothiophene at iridium. Journal of the American Chemical Society, 1993, 115, 7505-7506. | 13.7 | 46 |
| 68 | Hydrogenation of Quinoline by Rhodium Catalysts Modified with the Tripodal Polyphosphine Ligand MeC(CH2PPh2)3. Helvetica Chimica Acta, 2001, 84, 2895-2923. | 1.6 | 46 |
| 69 | Amino-phosphanes in RhI-Catalyzed Hydroformylation: Hemilabile Behavior of P,N Ligands under High CO Pressure and Catalytic Properties. European Journal of Inorganic Chemistry, 2006, 2006, 51-61. | 2.0 | 45 |
| 70 | Efficient rhodium catalysts for the hydrogenolysis of thiophenic molecules in homogeneous phase. Polyhedron, 1997, 16, 3099-3114. | 2.2 | 44 |
| 71 | Energy efficiency of platinum-free alkaline direct formate fuel cells. Applied Energy, 2016, 175, 479-487. | 10.1 | 44 |
| 72 | Copolymerization of carbon monoxide with ethene catalyzed by bis-chelated palladium(II) complexes containing diphosphine and dinitrogen ligands. New Journal of Chemistry, 1999, 23, 929-938. | 2.8 | 42 |

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| 73 | Carbon supported Auâ€“Pd coreâ€“shell nanoparticles for hydrogen production by alcohol electroreforming. Catalysis Science and Technology, 2016, 6, 6870-6878. | 4.1 | 42 |
| 74 | Platinum on carbonaceous supports for glycerol hydrogenolysis: Support effect. Journal of Catalysis, 2015, 325, 111-117. | 6.2 | 41 |
| 75 | Thermal and photochemical carbon-hydrogen bond activation reactions at iridium. .pi.-Coordination vs. C-H cleavage of ethene, styrene, and phenylacetylene. Organometallics, 1993, 12, 2505-2514. | 2.3 | 40 |
| 76 | Homogeneous Hydrogenation of Benzo[b]thiophene by Use of Rhodium and Iridium Complexes as the Catalyst Precursors:Â Kinetic and Mechanistic Aspectsâ€. Organometallics, 1997, 16, 2465-2471. | 2.3 | 40 |
| 77 | Selective Electrocatalytic H<sub>2</sub>O<sub>2</sub> Generation by Cobalt@Nâ€Doped Graphitic Carbon Coreâ€“Shell Nanohybrids. ChemSusChem, 2019, 12, 1664-1672. | 6.8 | 40 |
| 78 | Coupling of two ethyne molecules at rhodium versus coupling of two rhodium atoms at ethyne. 2. Implications for the reactivity. Catalytic and stoichiometric functionalization reactions of ethyne. Organometallics, 1991, 10, 645-651. | 2.3 | 39 |
| 79 | Assembling ethylene, alkyl, hydride, and carbon monoxide ligands at iridium. Organometallics, 1991, 10, 2227-2238. | 2.3 | 39 |
| 80 | HDS model systems. 2,3-Dihydrothiophene as an intermediate in the homogeneous hydrogenation of thiophene to tetrahydrothiophene at iridium. Organometallics, 1994, 13, 721-730. | 2.3 | 39 |
| 81 | Opening and Hydrogenation of Dinaphtho[2,1-b:1â€™,2â€™-d]thiophene (DNT) by Soluble Rhodium and Iridium Complexes. Homogeneous Hydrogenolysis of DNT to 1,1â€™-Binaphthalene-2-thiol by Rhodium Catalysis. Organometallics, 1996, 15, 4604-4611. | 2.3 | 39 |
| 82 | Hydrogenation of White Phosphorus to Phosphane with Rhodium and Iridium Trihydrides. Angewandte Chemie - International Edition, 1998, 37, 2255-2257. | 13.8 | 39 |
| 83 | Metal-Assisted Pâ€“H Bond Formation: A Step towards the Hydrogenation of White Phosphorus. European Journal of Inorganic Chemistry, 2001, 2001, 593-608. | 2.0 | 39 |
| 84 | Heat treated carbon supported iron(<scp>ii</scp>)phthalocyanine oxygen reduction catalysts: elucidation of the structureâ€“activity relationship using X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 33142-33151. | 2.8 | 39 |
| 85 | Crystal structure of the cis hydride acetyl complex [{N(CH2CH2PPh2)3}Rh(H)(COMe)]BPh4. One-pot synthesis of (.sigma.-acyl)metal complexes from aldehydes. Organometallics, 1991, 10, 820-823. | 2.3 | 38 |
| 86 | C-S Bond Scission of Substituted Thiophenes at Rhodium. Factors Influencing the Regioselectivity of the Insertion and the Stability of the Resulting Metalathiacycles. Organometallics, 1995, 14, 3196-3202. | 2.3 | 38 |
| 87 | Lactic Acid from Glycerol by Ethylene-Stabilized Platinum-Nanoparticles. ACS Catalysis, 2016, 6, 1671-1674. | 11.2 | 38 |
| 88 | Electrochemical CO<sub>2</sub> reduction in water at carbon cloth electrodes functionalized with a fac-Mn(apbpy)(CO)<sub>3</sub>Br complex. Chemical Communications, 2019, 55, 775-777. | 4.1 | 38 |
| 89 | Oxidative addition/reductive elimination of aldehydes and ketones at rhodium. Organometallics, 1989, 8, 337-345. | 2.3 | 37 |
| 90 | Hydrogenation of Indole by Phosphine-Modified Rhodium and Ruthenium Catalysts. Organometallics, 2002, 21, 1430-1437. | 2.3 | 37 |

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| 91 | Hydrogenation of Arenes over Catalysts that Combine a Metal Phase and a Grafted Metal Complex: Role of the Single-Site Catalyst. Angewandte Chemie - International Edition, 2003, 42, 2636-2639. | 13.8 | 37 |
| 92 | Facile preparation of novel cardo Poly(oxindolebiphenylylene) with pendent quaternary ammonium by superacid-catalysed polyhydroxyalkylation reaction for anion exchange membranes. Journal of Membrane Science, 2019, 591, 117320. | 8.2 | 37 |
| 93 | Câ^'S Bond Cleavage of Benzo[b]thiophene at Ruthenium. Organometallics, 1998, 17, 2495-2502. | 2.3 | 36 |
| 94 | Influence of steric and electronic factors in the stabilization of five-coordinate ethylene complexes of platinum(II): X-ray crystal structure of [PtCl2(2,9-dimethyl-1,10-phenanthroline-5,6-dione)]. Inorganica Chimica Acta, 2004, 357, 149-158. | 2.4 | 36 |
| 95 | Improving the Energy Efficiency of Direct Formate Fuel Cells with a Pd/C-CeO2 Anode Catalyst and Anion Exchange Ionomer in the Catalyst Layer. Energies, 2018, 11, 369. | 3.1 | 36 |
| 96 | Role of single-site catalysts in the hydrogenation of thiophenes: from models systems to effective HDS catalysts. Journal of Organometallic Chemistry, 2004, 689, 4277-4290. | 1.8 | 35 |
| 97 | Synthesis of the first polymer-supported tripodal triphosphine ligand and its application in the heterogeneous hydrogenolysis of benzo[b]thiophene by rhodium catalysis. Chemical Communications, 2001, , 479-480. | 4.1 | 34 |
| 98 | Deactivation of Palladium Electrocatalysts for Alcohols Oxidation in Basic Electrolytes. Electrochimica Acta, 2015, 177, 100-106. | 5.2 | 34 |
| 99 | Interaction of monohydrido complexes of rhodium(I) with 1-alkynes. Experimental study on deceptively simple reactions. Organometallics, 1990, 9, 1146-1155. | 2.3 | 33 |
| 100 | Cî—¸H bond activation of thiophenes at iridium: a lower energy process than Cî—¸S bond scission. Journal of Organometallic Chemistry, 1995, 504, 27-31. | 1.8 | 33 |
| 101 | Synergistic effect between few layer graphene and carbon nanotube supports for palladium catalyzing electrochemical oxidation of alcohols. Journal of Energy Chemistry, 2013, 22, 296-304. | 12.9 | 33 |
| 102 | Nanostructured Feâ€“Ag electrocatalysts for the oxygen reduction reaction in alkaline media. Journal of Materials Chemistry A, 2013, 1, 13337. | 10.3 | 33 |
| 103 | CeO<sub>2</sub> Modulates the Electronic States of a Palladium Onion-Like Carbon Interface into a Highly Active and Durable Electrocatalyst for Hydrogen Oxidation in Anion-Exchange-Membrane Fuel Cells. ACS Catalysis, 2022, 12, 7014-7029. | 11.2 | 33 |
| 104 | Like on Heterogeneous Hydrodesulfurization(HDS) Catalysts, the Homogeneous HDS of Benzo[b]thiophene Is Achived by the Concomitant Action of a Metal Promoter(Rh) and an Active HDS Component(W). Angewandte Chemie International Edition in English, 1996, 35, 1706-1708. | 4.4 | 32 |
| 105 | Synthesis of Polymer-Supported Rhodium(I)â^'1,3-Bis(diphenylphosphino)propane Moieties and Their Use in the Heterogeneous Hydrogenation of Quinoline and Benzylideneacetone. Organometallics, 2001, 20, 2660-2662. | 2.3 | 32 |
| 106 | High volume hydrogen production from the hydrolysis of sodium borohydride using a cobalt catalyst supported on a honeycomb matrix. Journal of Power Sources, 2015, 299, 391-397. | 7.8 | 32 |
| 107 | Recycling of waste automobile tires: Transforming char in oxygen reduction reaction catalysts for alkaline fuel cells. Journal of Power Sources, 2019, 427, 85-90. | 7.8 | 32 |
| 108 | Rhodium-Mediated Functionalization of White Phosphorus:Â A Novel Formation of Câ^'P Bonds. Organometallics, 1999, 18, 4237-4240. | 2.3 | 31 |

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| 109 | Electrocatalytic activity and operational stability of electrodeposited Pdâ€“Co films towards ethanol oxidation in alkaline electrolytes. Journal of Power Sources, 2015, 293, 815-822. | 7.8 | 31 |
| 110 | How to teach an old dog new (electrochemical) tricks: aziridine-functionalized CNTs as efficient electrocatalysts for the selective CO<sub>2</sub> reduction to CO. Journal of Materials Chemistry A, 2018, 6, 16382-16389. | 10.3 | 31 |
| 111 | Unmasking the Latent Passivating Roles of Ni(OH)<sub>2</sub> on the Performance of Pdâ€“Ni Electrocatalysts for Alkaline Ethanol Fuel Cells. ACS Applied Energy Materials, 2020, 3, 8786-8802. | 5.1 | 31 |
| 112 | Mimicking the HDS Activity of Promoted Tungsten Catalysts. A Homogeneous Modeling Study Using a Two-Component Tungsten/Rhodium System. Organometallics, 1997, 16, 5696-5705. | 2.3 | 29 |
| 113 | Sodium borohydride as an additive to enhance the performance of direct ethanol fuel cells. Journal of Power Sources, 2010, 195, 8036-8043. | 7.8 | 29 |
| 114 | Integration of a Pd-CeO<sub>2</sub>/C Anode with Pt and Pt-Free Cathode Catalysts in High Power Density Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2020, 3, 10209-10214. | 5.1 | 29 |
| 115 | Rhodium complexes with the tripodal triphosphine MeC(CH2PPh2)3 as highly reactive systems for hydrogenation and hydroformylation of alkenes. Journal of the Chemical Society Chemical Communications, 1988, , 299. | 2.0 | 28 |
| 116 | Insertion of iridium into C-H and C-S bonds of 2,5-dimethylthiophene 2-methylbenzothiophene and 4,6-dimethyldibenzothiophene. Journal of Organometallic Chemistry, 1997, 541, 143-155. | 1.8 | 28 |
| 117 | Evidence of the Strong Metal Support Interaction in a Palladium-Ceria Hybrid Electrocatalyst for Enhancement of the Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2018, 165, F1147-F1153. | 2.9 | 28 |
| 118 | Storage of renewable energy in fuels and chemicals through electrochemical reforming of bioalcohols. Current Opinion in Electrochemistry, 2020, 21, 140-145. | 4.8 | 28 |
| 119 | Synthesis of the new thia-aza cage 12,17-dimethyl-5-thia-1,9,12,17-tetraazabicyclo[7.5.5]nonadecane. Thermodynamic studies on protonation and copper(II) complex formation. Inorganic Chemistry, 1986, 25, 4379-4381. | 4.0 | 27 |
| 120 | 1H- and2H-T1Relaxation Behavior of the Rhodium Dihydrogen Complex [(Triphos)Rh(Î·2-H2)H2]+. Inorganic Chemistry, 2000, 39, 1655-1660. | 4.0 | 27 |
| 121 | Energy and Chemicals from the Selective Electrooxidation of Renewable Diols by Organometallic Fuel Cells. ChemSusChem, 2014, 7, 2432-2435. | 6.8 | 27 |
| 122 | Electroactivation of Microparticles of Silver on Glassy Carbon for Oxygen Reduction and Oxidation Reactions. Journal of the Electrochemical Society, 2014, 161, D3018-D3024. | 2.9 | 27 |
| 123 | Potential energy recovery by integrating an ORC in a biogas plant. Applied Energy, 2019, 256, 113960. | 10.1 | 27 |
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| 127 | Energy Production and Storage Promoted by Organometallic Complexes. European Journal of Inorganic Chemistry, 2018, 2018, 4393-4412. | 2.0 | 24 |
| 128 | Feasibility Analysis of Bio-Methane Production in a Biogas Plant: A Case Study. Energies, 2019, 12, 473. | 3.1 | 24 |
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