

Pascual Oñate-Burgos

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,746
citations

279798

23
h-index

276875

41
g-index

58
all docs

58
docs citations

58
times ranked

2171
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Metal-free Catalytic Olefin Hydrogenation: Low-Temperature H ₂ Activation by Frustrated Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10164-10168. | 13.8 | 230 |
| 2 | Mechanistic Investigations of Water Oxidation by a Molecular Cobalt Oxide Analogue: Evidence for a Highly Oxidized Intermediate and Exclusive Terminal Oxo Participation. <i>Journal of the American Chemical Society</i> , 2015, 137, 12865-12872. | 13.7 | 124 |
| 3 | [Ln(BH ₄) ₂ (THF) ₂] (Ln = Eu, Yb) A Highly Luminescent Material. Synthesis, Properties, Reactivity, and NMR Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 16983-16986. | 13.7 | 97 |
| 4 | Electronic effects of triarylphosphines in metal-free hydrogen activation: a kinetic and computational study. <i>Chemical Science</i> , 2013, 4, 2788. | 7.4 | 93 |
| 5 | Iron-Catalyzed Homogeneous Hydrosilylation of Ketones and Aldehydes: Advances and Mechanistic Perspective. <i>ACS Catalysis</i> , 2019, 9, 5400-5417. | 11.2 | 71 |
| 6 | Chiral Rare Earth Borohydride Complexes Supported by Amidinate Ligands: Synthesis, Structure, and Catalytic Activity in the Ring-Opening Polymerization of <i>rac</i> -Lactide. <i>Organometallics</i> , 2013, 32, 1230-1238. | 2.3 | 67 |
| 7 | Cobalt Metal-Organic Framework Based on Layered Double Nanosheets for Enhanced Electrocatalytic Water Oxidation in Neutral Media. <i>Journal of the American Chemical Society</i> , 2020, 142, 19198-19208. | 13.7 | 64 |
| 8 | [2.2]Paracyclophane derived bisphosphines for the activation of hydrogen by FLPs: application in domino hydrosilylation/hydrogenation of enones. <i>Dalton Transactions</i> , 2012, 41, 9056. | 3.3 | 58 |
| 9 | An Unprecedented Phosphinamidic Gold(III) Metallocycle: Synthesis via Tin(IV) Precursors, Structure, and Multicomponent Catalysis. <i>Organometallics</i> , 2009, 28, 1739-1747. | 2.3 | 51 |
| 10 | Enantioselective Desymmetrization of Diphenylphosphinamides via (α)-Sparteine-Mediated <i>ortho</i> -Lithiation. Synthesis of <i>P</i> -Chiral Ligands. <i>Organic Letters</i> , 2010, 12, 428-431. | 4.6 | 50 |
| 11 | Cobalt Metal-Organic Framework Based on Two Dinuclear Secondary Building Units for Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46658-46665. | 8.0 | 40 |
| 12 | Catching Gaseous SO ₂ in Cone-Type Lanthanide Complexes: An Unexpected Coordination Mode for SO ₂ in f-Element Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5006-5010. | 13.8 | 35 |
| 13 | Tuning the Gap: Electronic Properties and Radical-Type Reactivities of Heteronuclear [1.1.1]Propellanes of Heavier Group 14 Elements. <i>Organometallics</i> , 2011, 30, 1419-1428. | 2.3 | 34 |
| 14 | Phosphinamide-Directed Benzylic Lithiation. Application to the Synthesis of Peptide Building Blocks. <i>Organic Letters</i> , 2008, 10, 537-540. | 4.6 | 31 |
| 15 | Cobalt nanoclusters coated with N-doped carbon for chemoselective nitroarene hydrogenation and tandem reactions in water. <i>Green Chemistry</i> , 2021, 23, 4490-4501. | 9.0 | 31 |
| 16 | Enzyme-like activity of cobalt-MOF nanosheets for hydrogen peroxide electrochemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132129. | 7.8 | 30 |
| 17 | ¹ H, ⁸⁹ Y HMQC and Further NMR Spectroscopic and X-ray Diffraction Investigations on Yttrium-Containing Complexes Exhibiting Various Nuclearities. <i>Chemistry - A European Journal</i> , 2012, 18, 5325-5334. | 3.3 | 29 |
| 18 | Mechanisms of Stereomutation and Thermolysis of Spiro-1,2-oxaphosphetanes: New Insights into the Second Step of the Wittig Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 19504-19507. | 13.7 | 27 |

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|----|--|------|-----------|
| 19 | Heterobimetallic Cuprates Consisting of a Redox-Switchable, Silicon-Based Metalloligand: Synthesis, Structures, and Electronic Properties. <i>Chemistry - A European Journal</i> , 2013, 19, 8436-8446. | 3.3 | 27 |
| 20 | Peptoid-Ligated Pentadecanuclear Yttrium and Dysprosium Hydroxy Clusters. <i>Chemistry - A European Journal</i> , 2015, 21, 2813-2820. | 3.3 | 27 |
| 21 | Coinage Metal Complexes of Tris(pyrazolyl)methanide-Based Redox-Active Metalloligands. <i>Organometallics</i> , 2014, 33, 941-951. | 2.3 | 26 |
| 22 | Octahedral iron(ii) phthalocyanine complexes: multinuclear NMR and relevance as NO ₂ chemical sensors. <i>Dalton Transactions</i> , 2010, 39, 6231. | 3.3 | 25 |
| 23 | ⁷ Li, ¹⁵ N heteronuclear multiple quantum shift correlation—a fast and reliable 2D NMR method on natural abundant nuclei. <i>Chemical Communications</i> , 2009, , 2586. | 4.1 | 24 |
| 24 | Cobalt Catalysts for Alkene Hydrosilylation under Aerobic Conditions without Dry Solvents or Additives. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4867-4874. | 2.0 | 24 |
| 25 | Molecular weight prediction with no dependence on solvent viscosity. A quantitative pulse field gradient diffusion NMR approach. <i>Polymer Chemistry</i> , 2016, 7, 4326-4329. | 3.9 | 23 |
| 26 | Asymmetric Deprotonation-Substitution of N-Propylbenzylamines Using [RLi(âˆ—)-Sparteine]. Enantioselective Sequential Reactions and Synthesis of N-Heterocycles. <i>Organic Letters</i> , 2008, 10, 3195-3198. | 4.6 | 22 |
| 27 | Solution and Computed Structure of <i>o</i> -Lithium <i>N,N</i> -Diisopropyl- <i>P</i> , <i>P</i> -diphenylphosphinic Amide. Unprecedented Li ⁺ O ²⁻ Li ⁺ O Self-Assembly of an Aryllithium. <i>Journal of the American Chemical Society</i> , 2010, 132, 5193-5204. | 13.7 | 22 |
| 28 | Synthesis and structure of tridentate bis(phosphinic amide)-phosphine oxide complexes of yttrium nitrate. Applications of ³¹ P, ⁸⁹ Y NMR methods in structural elucidation in solution. <i>Dalton Transactions</i> , 2011, 40, 6691. | 3.3 | 21 |
| 29 | Homoleptic Tetrakis(silyl) Complexes of Pd ⁰ and Pt ⁰ Featuring Metal-Centred Heterocubane Structures: Evidence for the Existence of the Corresponding Mononuclear Pd ^I and Pt ^I Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 17899-17906. | 3.3 | 20 |
| 30 | Efficient Hydrosilylation of Acetophenone with a New Anthraquinonic Amide-Based Iron Precatalyst. <i>Organometallics</i> , 2016, 35, 4083-4089. | 2.3 | 20 |
| 31 | Sodium and Potassium Salts of Mono- and Dianionic β -iminopyridines. <i>Chemistry - A European Journal</i> , 2011, 17, 10814-10819. | 3.3 | 18 |
| 32 | Difluoroboreonium Cation Stabilized by Hexaphenylcarbodiphosphorane: A Concise Study on the Molecular and Electronic Structure of [(Ph ₃ P) ₂ C \ddagger BF ₂][BF ₄]. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3852-3858. | 2.0 | 17 |
| 33 | Exploring the solution behavior of f-element coordination compounds: a case study on some trivalent rare earth and plutonium complexes. <i>Chemical Science</i> , 2013, 4, 3717. | 7.4 | 14 |
| 34 | Unprecedented Spectroscopic and Computational Evidence for Allenyl and Propargyl Titanocene(IV) Complexes: Electrophilic Quenching of Their Metallotropic Equilibrium. <i>Chemistry - A European Journal</i> , 2016, 22, 2427-2439. | 3.3 | 14 |
| 35 | Influence of Substitution at the Benzylic Position on the Behavior of Stereoisomeric Phosphorus Compounds as Precursors of Stabilized Carbon-Centered Radicals. <i>Organic Letters</i> , 2005, 7, 3869-3872. | 4.6 | 13 |
| 36 | A new anthraquinoid ligand for the iron-catalyzed hydrosilylation of carbonyl compounds at room temperature: new insights and kinetics. <i>Dalton Transactions</i> , 2018, 47, 7272-7281. | 3.3 | 13 |

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|----|---|-----|-----------|
| 37 | Hydrosilylation of Carbonyl Compounds Catalyzed through a Lithiated Hydrazone Derivative. <i>Organometallics</i> , 2018, 37, 2682-2689. | 2.3 | 13 |
| 38 | On the Solution Behaviour of Benzyl lithiumââSparteine Adducts and Related Lithium Organyls â A Case Study on Applying ⁷ Li, ¹⁵ N{ ¹ H}âHMQC and Further NMR Methods, Including Some Investigation into Asymmetric Synthesis. <i>Chemistry - A European Journal</i> , 2013, 19, 691-701. | 3.3 | 12 |
| 39 | (Iminophosphoranyl)(thiophosphoranyl)methane rare-earth borohydride complexes: synthesis, structures and polymerization catalysis. <i>Dalton Transactions</i> , 2015, 44, 12338-12348. | 3.3 | 12 |
| 40 | Rh ₂ P Nanoparticles Stabilized by Carbon Patches for Hydroformylation of Olefins. <i>ACS Applied Nano Materials</i> , 2021, 4, 10743-10753. | 5.0 | 12 |
| 41 | A metallacyclic alkyl-amido carbene complex (MCAAC). <i>Dalton Transactions</i> , 2014, 43, 4313. | 3.3 | 11 |
| 42 | Tailoring the electron density of cobalt oxide clusters to provide highly selective superoxide and peroxide species for aerobic cyclohexane oxidation. <i>Dalton Transactions</i> , 2021, 50, 15370-15379. | 3.3 | 11 |
| 43 | MOF-Mediated Synthesis of Supported Fe-Doped Pd Nanoparticles under Mild Conditions for Magnetically Recoverable Catalysis**. <i>Chemistry - A European Journal</i> , 2020, 26, 13659-13667. | 3.3 | 9 |
| 44 | Tailoring graphene-supported Ru nanoparticles by functionalization with pyrene-tagged N-heterocyclic carbenes. <i>Catalysis Science and Technology</i> , 2022, 12, 1257-1270. | 4.1 | 9 |
| 45 | Bimetallic Intersection in PdFe@FeO _x â Nanomaterial for Enhanced Water Splitting Electrocatalysis. <i>Advanced Sustainable Systems</i> , 2022, 6, . | 5.3 | 8 |
| 46 | Alkynyl-functionalised and linked bicyclo[1.1.1]pentanes of group 14. <i>Chemical Communications</i> , 2012, 48, 6803. | 4.1 | 7 |
| 47 | Use of Alkylarsonium Directing Agents for the Synthesis and Study of Zeolites. <i>Chemistry - A European Journal</i> , 2019, 25, 16390-16396. | 3.3 | 6 |
| 48 | Diffusion NMR spectroscopy applied to coordination and organometallic compounds. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 98, 125-191. | 1.5 | 3 |
| 49 | Phosphinamide-Directed ortho Metalations: Application to the Desymmetrization of the Diphenylphosphoryl Group. <i>Synlett</i> , 2007, 2007, 0611-0614. | 1.8 | 2 |
| 50 | Peptoid-Ligated Pentadecanuclear Yttrium and Dysprosium Hydroxy Clusters. <i>Chemistry - A European Journal</i> , 2015, 21, 2713-2713. | 3.3 | 2 |
| 51 | Elucidation of the Interaction Mechanism between Organic Chiral Cages with Biomolecules through Nuclear Magnetic Resonance and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16821-16829. | 3.1 | 2 |