# Raquel P Herrera

List of Publications by Year
in descending order



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|---|---|---|---|
| 103 papers | 4,979 citations | 136950 32 h-index | 95266 68 g-index |
| 146 all docs | 146 docs citations | 146 times ranked | 4053 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Horizons in Asymmetric Organocatalysis: En Route to the Sustainability and New Applications. Catalysts, 2022, 12, 101. | 3.5 | 10 |
| 2 | Ferrocenyl Gold Complexes as Efficient Catalysts. European Journal of Inorganic Chemistry, 2022, 2022, . | 2.0 | 7 |
| 3 | Main Avenues in Gold Coordination Chemistry. Chemical Reviews, 2021, 121, 8311-8363. | 47.7 | 99 |
| 4 | Unconventional Gold-Catalyzed One-Pot/Multicomponent Synthesis of Propargylamines Starting from Benzyl Alcohols. Catalysts, 2021, 11, 513. | 3.5 | 6 |
| 5 | Single-Crystal-to-Single-Crystal Transformation and Catalytic Properties of New Hybrid Perhalidometallates. Catalysts, 2021, 11, 758. | 3.5 | 4 |
| 6 | Synthesis of New Thiourea-Metal Complexes with Promising Anticancer Properties. Molecules, 2021, 26, 6891. | 3.8 | 13 |
| 7 | Functionalization of Ï€-activated alcohols by trapping carbocations in pure water under smooth conditions. Arabian Journal of Chemistry, 2020, 13, 1866-1873. | 4.9 | 6 |
| 8 | Synthesis, structural determination and catalytic study of a new 2-D chloro-substituted zinc phosphate, (C8N2H20)[ZnCl(PO3(OH))]2. Journal of Molecular Structure, 2020, 1202, 127216. | 3.6 | 4 |
| 9 | Hydrogen Bonding and Internal or External Lewis or BrÃ¸nsted Acid Assisted (Thio)urea Catalysts. European Journal of Organic Chemistry, 2020, 2020, 1057-1068. | 2.4 | 32 |
| 10 | Novel ureido-dihydropyridine scaffolds as theranostic agents. Bioorganic Chemistry, 2020, 105, 104364. | 4.1 | 5 |
| 11 | Ultrasound-assisted multicomponent synthesis of 4H-pyrans in water and DNA binding studies. Scientific Reports, 2020, 10, 11594. | 3.3 | 28 |
| 12 | Asymmetric Fluorination Reactions promoted by Chiral Hydrogen Bondingâ€based Organocatalysts. Advanced Synthesis and Catalysis, 2020, 362, 5275-5300. | 4.3 | 21 |
| 13 | Selfâ€Assembly of Hollow Organic Nanotubes Driven by Arene Regioisomerism. ChemPlusChem, 2020, 85, 2372-2375. | 2.8 | 4 |
| 14 | Sulfonamide as amide isostere for fine-tuning the gelation properties of physical gels. RSC Advances, 2020, 10, 11481-11492. | 3.6 | 4 |
| 15 | Simple iodoalkyne-based organocatalysts for the activation of carbonyl compounds. Organic and Biomolecular Chemistry, 2020, 18, 1594-1601. | 2.8 | 19 |
| 16 | Asymmetric Organocatalyzed Azaâ€Henry Reaction of Hydrazones: Experimental and Computational Studies. Chemistry - A European Journal, 2020, 26, 5469-5478. | 3.3 | 7 |
| 17 | First aromatic amine organocatalysed activation of Î±,Î²-unsaturated ketones. New Journal of Chemistry, 2019, 43, 12233-12240. | 2.8 | 6 |
| 18 | Thiolate Bridged Gold(I)â€“NHC Catalysts: New Approach for Catalyst Design and its Application to Trapping Catalytic Intermediates. Chemistry - A European Journal, 2019, 25, 15837-15845. | 3.3 | 17 |

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| 19 | Proline bulky substituents consecutively act as steric hindrances and directing groups in a Michael/Conia-ene cascade reaction under synergistic catalysis. Chemical Science, 2019, 10, 4107-4115. | 7.4 | 28 |
| 20 | Bioactive and luminescent indole and isatin based gold(i) derivatives. Dalton Transactions, 2019, 48, 3098-3108. | 3.3 | 17 |
| 21 | Anticancer properties of gold complexes with biologically relevant ligands. Pure and Applied Chemistry, 2019, 91, 247-269. | 1.9 | 45 |
| 22 | Hydrothermal synthesis of chiral inorganic-organic CoII complex: Structural, thermal and catalytic evaluation. Journal of Molecular Structure, 2018, 1165, 356-362. | 3.6 | 10 |
| 23 | Synthesis, structural determination and antimicrobial evaluation of two novel CoII and ZnII halogenometallates as efficient catalysts for the acetalization reaction of aldehydes. Chemistry Central Journal, 2018, 12, 24. | 2.6 | 13 |
| 24 | Organocatalyzed Enantioselective Aldol and Henry Reactions Starting from Benzylic Alcohols. Advanced Synthesis and Catalysis, 2018, 360, 124-129. | 4.3 | 9 |
| 25 | First Organocatalytic Asymmetric Synthesis of 1-Benzamido-1,4-Dihydropyridine Derivatives. Molecules, 2018, 23, 2692. | 3.8 | 13 |
| 26 | Gold Catalyzed Multicomponent Reactions beyond A3 Coupling. Molecules, 2018, 23, 2255. | 3.8 | 29 |
| 27 | Urea Activation by an External BrÃ¸nsted Acid: Breaking Self-Association and Tuning Catalytic Performance. Catalysts, 2018, 8, 305. | 3.5 | 6 |
| 28 | Efficient Gold(I) Acyclic Diaminocarbenes for the Synthesis of Propargylamines and Indolizines. ACS Omega, 2018, 3, 9805-9813. | 3.5 | 16 |
| 29 | Synthesis and supramolecular self-assembly of glutamic acid-based squaramides. Beilstein Journal of Organic Chemistry, 2018, 14, 2065-2073. | 2.2 | 6 |
| 30 | Gold(I)â€Mediated Thiourea Organocatalyst Activation: A Synergic Effect for Asymmetric Catalysis. ChemCatChem, 2017, 9, 1313-1321. | 3.7 | 19 |
| 31 | Organocatalytic Hydrophosphonylation Reaction of Carbonyl Groups. Chemical Record, 2017, 17, 833-840. | 5.8 | 21 |
| 32 | Asymmetric Organocatalytic Synthesis of Substituted Chiral 1,4-Dihydropyridine Derivatives. Journal of Organic Chemistry, 2017, 82, 5516-5523. | 3.2 | 27 |
| 33 | Organocatalytic Enantioselective Synthesis of 1,4â€Dihydropyridines. Advanced Synthesis and Catalysis, 2017, 359, 2161-2175. | 4.3 | 33 |
| 34 | Highly active group 11 metal complexes with Î±-hydrazidophosphonate ligands. Dalton Transactions, 2017, 46, 13745-13755. | 3.3 | 13 |
| 35 | Optimizing the Accuracy and Computational Cost in Theoretical Squaramide Catalysis: The Henry Reaction. Chemistry - A European Journal, 2017, 23, 15336-15347. | 3.3 | 18 |
| 36 | â€œPushâ€“Pull Ï€+/Ï€â€“â€•(PPÏ€Ï€) Systems in Catalysis. ACS Catalysis, 2017, 7, 6430-6439. | 11.2 | 24 |

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| 37 | Frontispiece: Optimizing the Accuracy and Computational Cost in Theoretical Squaramide Catalysis: The Henry Reaction. Chemistry - A European Journal, 2017, 23, . | 3.3 | 0 |
| 38 | Direct Substitution of Alcohols in Pure Water by BrÃ¸nsted Acid Catalysis. Molecules, 2017, 22, 574. | 3.8 | 25 |
| 39 | The aminoindanol core as a key scaffold in bifunctional organocatalysts. Beilstein Journal of Organic Chemistry, 2016, 12, 505-523. | 2.2 | 22 |
| 40 | Fluoride Anion Recognition by a Multifunctional Urea Derivative: An Experimental and Theoretical Study. Sensors, 2016, 16, 658. | 3.8 | 12 |
| 41 | Trifunctional Squaramide Catalyst for Efficient Enantioselective Henry Reaction Activation. Advanced Synthesis and Catalysis, 2016, 358, 1801-1809. | 4.3 | 41 |
| 42 | Synergistic Catalysis: Asymmetric Synthesis of Cyclopentanes Bearing Four Stereogenic Centers. Synthesis, 2016, 49, 167-174. | 2.3 | 4 |
| 43 | Synthesis of luminescent squaramide monoesters: cytotoxicity and cell imaging studies in HeLa cells. RSC Advances, 2016, 6, 14171-14177. | 3.6 | 21 |
| 44 | Crystallisation, thermal analysis and acetal protection activity of new layered Zn(<scp>ii</scp>) hybrid polymorphs. CrystEngComm, 2016, 18, 5365-5374. | 2.6 | 7 |
| 45 | Self-assembled fibrillar networks of a multifaceted chiral squaramide: supramolecular multistimuli-responsive alcogels. Soft Matter, 2016, 12, 4361-4374. | 2.7 | 32 |
| 46 | Organocatalytic Transfer Hydrogenation and Hydrosilylation Reactions. Topics in Current Chemistry, 2016, 374, 29. | 5.8 | 20 |
| 47 | Organocatalytic Transfer Hydrogenation and Hydrosilylation Reactions. Topics in Current Chemistry Collections, 2016, , 105-144. | 0.5 | 2 |
| 48 | Regulatory parameters of self-healing alginate hydrogel networks prepared via mussel-inspired dynamic chemistry. New Journal of Chemistry, 2016, 40, 8493-8501. | 2.8 | 31 |
| 49 | Hydrogen Bonding Networks in Chiral Thiourea Organocatalysts: Evidence on the Importance of the Aminoindanol Moiety. Crystal Growth and Design, 2016, 16, 5091-5099. | 3.0 | 22 |
| 50 | Metalâ€“organic frameworks (MOFs) bring new life to hydrogen-bonding organocatalysts in confined spaces. CrystEngComm, 2016, 18, 3985-3995. | 2.6 | 54 |
| 51 | Squaramides with cytotoxic activity against human gastric carcinoma cells HGC-27: synthesis and mechanism of action. MedChemComm, 2016, 7, 550-561. | 3.4 | 14 |
| 52 | Thioureaâ€Catalyzed Addition of Indoles to Aliphatic Î²,Î³â€Unsaturated Î±â€Ketoesters. Asian Journal of Organic Chemistry, 2015, 4, 884-889. | 2.7 | 17 |
| 53 | New Organocatalytic Asymmetric Synthesis of Highly Substituted Chiral 2-Oxospiro-[indole-3,4â€²-(1â€²,4â€²-dihydropyridine)] Derivatives. Molecules, 2015, 20, 15807-15826. | 3.8 | 27 |
| 54 | Enantioselective Organocatalyzed Synthesis of 2-Amino-3-cyano-4H-chromene Derivatives. Symmetry, 2015, 7, 1519-1535. | 2.2 | 30 |

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| 55 | One-pot synthesis of unsymmetrical squaramides. RSC Advances, 2015, 5, 33450-33462. | 3.6 | 20 |
| 56 | The fluxional amine gold(iii) complex as an excellent catalyst and precursor of biologically active acyclic carbenes. Dalton Transactions, 2015, 44, 9052-9062. | 3.3 | 26 |
| 57 | A new approach for the synthesis of bisindoles through AgOTf as catalyst. Beilstein Journal of Organic Chemistry, 2014, 10, 2206-2214. | 2.2 | 42 |
| 58 | Guanidine Motif in Biologically Active Peptides. Australian Journal of Chemistry, 2014, 67, 965. | 0.9 | 6 |
| 59 | A Friedelâ€“Crafts alkylation mechanism using an aminoindanol-derived thiourea catalyst. Organic and Biomolecular Chemistry, 2014, 12, 4503-4510. | 2.8 | 28 |
| 60 | Organocatalytic enantioselective hydrophosphonylation of aldehydes. Organic and Biomolecular Chemistry, 2014, 12, 1258-1264. | 2.8 | 47 |
| 61 | Synthesis of interesting Î²-nitrohydrazides through a thiourea organocatalysed aza-Michael addition. RSC Advances, 2014, 4, 9856-9865. | 3.6 | 21 |
| 62 | Exploiting Molecular Selfâ€Assembly: From Ureaâ€Based Organocatalysts to Multifunctional Supramolecular Gels. Chemistry - A European Journal, 2014, 20, 10720-10731. | 3.3 | 50 |
| 63 | Isatin as a Strategic Motif for Asymmetric Catalysis. ChemCatChem, 2013, 5, 2131-2148. | 3.7 | 92 |
| 64 | Enantioselective Rauhut-Currier-Type Cyclizations via Dienamine Activation: Scope and Mechanism. Synthesis, 2013, 45, 1016-1028. | 2.3 | 15 |
| 65 | Thiourea catalyzed organocatalytic enantioselective Michael addition of diphenyl phosphite to nitroalkenes. Organic and Biomolecular Chemistry, 2011, 9, 2777. | 2.8 | 43 |
| 66 | Editorial [Hot Topic: Fundamentals in Organocatalysis. Past, Present and Future (Guest Editor: Raquel) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.6 | 2 |
| 67 | Diarylprolinol Derivatives in Organocatalysis From Another Point of View: Structural Aspects. Current Organic Chemistry, 2011, 15, 2311-2327. | 1.6 | 20 |
| 68 | Enantioselective Î±- and Î³-Alkylation of Î±,Î²-Unsaturated Aldehydes Using Dienamine Activation. Organic Letters, 2011, 13, 70-73. | 4.6 | 119 |
| 69 | Enhanced Efficiency of Thiourea Catalysts by External BrÃ¸nsted Acids in the Friedelâ€“Crafts Alkylation of Indoles. European Journal of Organic Chemistry, 2011, 2011, 3700-3705. | 2.4 | 65 |
| 70 | Organocatalytic Enantioselective Henry Reactions. Symmetry, 2011, 3, 220-245. | 2.2 | 116 |
| 71 | Organocatalyzed Michael Addition Reaction by Novel (2R,3aS,7aS)-Octa-hydroindole-2-carboxylic Acid, a New Fused Proline. Synlett, 2011, 2011, 249-253. | 1.8 | 0 |
| 72 | Asymmetric organocatalysis in total synthesis â€“ a trial by fire. Natural Product Reports, 2010, 27, 1138. | 10.3 | 290 |

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| 73 | Uncatalyzed Threeâ€Component Synthesis of Î±â€Hydrazido Phosphonates. European Journal of Organic Chemistry, 2010, 2010, 1450-1454. | 2.4 | 12 |
| 74 | Asymmetric organocatalytic synthesis of Î³-nitrocarbonyl compounds through Michael and Domino reactions. Tetrahedron: Asymmetry, 2010, 21, 2561-2601. | 1.8 | 151 |
| 75 | Enantioselective Organocatalytic Diels-Alder Reactions. Synthesis, 2010, 2010, 1-26. | 2.3 | 154 |
| 76 | The Role of the Indole in Important Organocatalytic Enantioselective Friedel-Crafts Alkylation Reactions. Current Organic Chemistry, 2009, 13, 1585-1609. | 1.6 | 65 |
| 77 | Catalytic Enantioselective Azaâ€Henry Reactions. European Journal of Organic Chemistry, 2009, 2009, 2401-2420. | 2.4 | 186 |
| 78 | Organocatalyzed Strecker reactions. Tetrahedron, 2009, 65, 1219-1234. | 1.9 | 130 |
| 79 | Crossed Intramolecular Rauhutâ^'Currier-Type Reactions via Dienamine Activation. Organic Letters, 2009, 11, 4116-4119. | 4.6 | 144 |
| 80 | Uncatalyzed Streckerâ€Type Reaction of N,Nâ€Dialkylhydrazones in Pure Water. European Journal of Organic Chemistry, 2008, 2008, 3457-3460. | 2.4 | 18 |
| 81 | Catalytic Enantioselective Hydrophosphonylation of Aldehydes and Imines. Advanced Synthesis and Catalysis, 2008, 350, 1195-1208. | 4.3 | 241 |
| 82 | Organocatalytic Conjugate Addition of FormaldehydeN,N-Dialkylhydrazones to Î²,Î³-Unsaturated Î±-Keto Esters. Organic Letters, 2007, 9, 3303-3306. | 4.6 | 104 |
| 83 | New Modes of Reactivity in the Threshold of the Reduction Potential in Solution. Alkylation of Lithium PAH (Polycyclic Aromatic Hydrocarbon) Dianions by Primary Fluoroalkanes: A Reaction Pathway Complementing the Classical Birch Reductive Alkylation. Chemistry - A European Journal, 2007, 13, 10096-10107. | 3.3 | 28 |
| 84 | Organocatalytic Enantioselective Decarboxylative Addition of Malonic Half Thioesters to Imines. Advanced Synthesis and Catalysis, 2007, 349, 1037-1040. | 4.3 | 112 |
| 85 | Direct Access to Enantiomerically Enriched Î±-Amino Phosphonic Acid Derivatives by Organocatalytic Asymmetric Hydrophosphonylation of Imines. Journal of Organic Chemistry, 2006, 71, 6269-6272. | 3.2 | 137 |
| 86 | Phase Transfer Catalyzed Enantioselective Strecker Reactions of Î±-Amido Sulfones with Cyanohydrins. Journal of Organic Chemistry, 2006, 71, 9869-9872. | 3.2 | 81 |
| 87 | Enantioselective aza-Henry reaction using cinchona organocatalysts. Tetrahedron, 2006, 62, 375-380. | 1.9 | 138 |
| 88 | Catalytic Enantioselective Friedelâ€"Crafts Alkylation of Indoles with Nitroalkenes by Using a Simple Thiourea Organocatalyst.. ChemInform, 2006, 37, no. | 0.0 | 0 |
| 89 | Towards the Synthesis of Highly Functionalized Chiral Î±-Amino Nitriles by Aminative Cyanation and Their Synthetic Applications. European Journal of Organic Chemistry, 2006, 2006, 207-217. | 2.4 | 6 |
| 90 | Phase-Transfer-Catalyzed Enantioselective Mannich Reaction of Malonates with Î±-Amido Sulfones. Advanced Synthesis and Catalysis, 2006, 348, 2043-2046. | 4.3 | 74 |

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| 91 | A Broadened Scope for the Use of Hydrazones as Neutral Nucleophiles in the Presence of H-Bonding Organocatalysts. Synlett, 2006, 2006, 239-242. | 1.8 | 31 |
| 92 | Catalytic Enantioselective Friedel-Crafts Alkylation of Indoles with Nitroalkenes by Using a Simple Thiourea Organocatalyst. Angewandte Chemie - International Edition, 2005, 44, 6576-6579. | 13.8 | 429 |
| 93 | Phase-Transfer-Catalyzed Asymmetric Aza-Henry Reaction UsingN-Carbamoyl Imines Generated In Situ from Î±-Amido Sulfones. Angewandte Chemie - International Edition, 2005, 44, 7975-7978. | 13.8 | 170 |
| 94 | Synthesis of ?-Hydrazino Ketones via Regio- and Stereoselective Electrophilic Amination of Manganese Enolates and Enamines.. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 95 | H-Bonding Organocatalysed Friedel-Crafts Alkylation of Aromatic and Heteroaromatic Systems with Nitroolefins. Synlett, 2004, 2004, 2374-2378. | 1.8 | 25 |
| 96 | Synthesis of Î±-Hydrazino Ketones via Regio- and Stereoselective Electrophilic Amination of Manganese Enolates and Enamines. Journal of Organic Chemistry, 2004, 69, 8525-8528. | 3.2 | 28 |
| 97 | Aliphatic Organolithiums by Fluorineâ€"Lithium Exchange: n-Octyllithium.. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 98 | On the dichotomy of the SN2/ET reaction pathways: an apparent SN2 reactivity in the reaction of naphthalene dianion with alkyl fluorides. Tetrahedron Letters, 2003, 44, 1309-1312. | 1.4 | 23 |
| 99 | Primary alkyl fluorides as regioselective alkylating reagents of lithium arene dianions. Easy prediction of regioselectivity by MO calculations on the dianion. Tetrahedron Letters, 2003, 44, 1313-1316. | 1.4 | 25 |
| 100 | Aliphatic organolithiums by fluorineâ€"lithium exchange: n-octyllithium. Tetrahedron Letters, 2003, 44, 5025-5027. | 1.4 | 31 |
| 101 | On the Mechanism of Arene-Catalyzed Lithiation: The Role of Arene Dianionsâ€"Naphthalene Radical Anion versus Naphthalene Dianion. Chemistry - A European Journal, 2002, 8, 2574. | 3.3 | 97 |
| 102 | On the mechanism of the naphthalene-catalysed lithiation: the role of the naphthalene dianion. Tetrahedron Letters, 2001, 42, 3455-3458. | 1.4 | 72 |
| 103 | Investigation of Squaramide Catalysts in the Aldol Reaction en Route to Funapide. European Journal of Organic Chemistry, 0, , . | 2.4 | 3 |