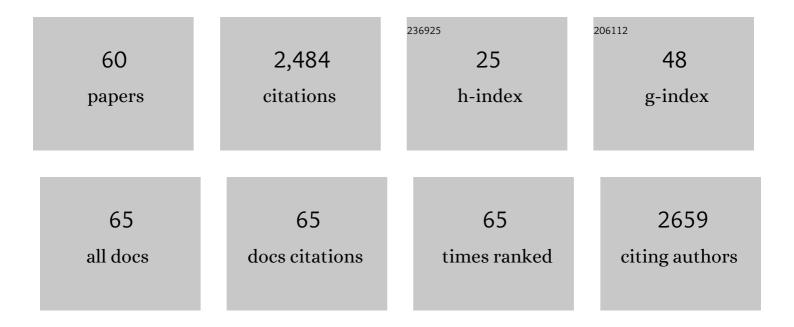
Alain R Puente-Santiago

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diazonium functionalized fullerenes: a new class of efficient molecular catalysts for the hydrogen evolution reaction. Nanoscale, 2022, 14, 3858-3864.	5.6	12
2	Controlling the Interfacial Charge Polarization of MOF-Derived 0D–2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 3919-3929.	8.0	63
3	Low-dimensional heterostructures for advanced electrocatalysis: an experimental and computational perspective. Chemical Society Reviews, 2022, 51, 812-828.	38.1	62
4	Atomically Dispersed Heteronuclear Dualâ€Atom Catalysts: A New Rising Star in Atomic Catalysis. Small, 2022, 18, e2106091.	10.0	78
5	Experimental and Theoretical Advances on Single Atom and Atomic Clusterâ€Decorated Lowâ€Dimensional Platforms towards Superior Electrocatalysts. Advanced Energy Materials, 2022, 12, .	19.5	25
6	Fullerenes as Key Components for Lowâ€Dimensional (Photo)electrocatalytic Nanohybrid Materials. Angewandte Chemie - International Edition, 2021, 60, 122-141.	13.8	64
7	Tissue paper-derived porous carbon encapsulated transition metal nanoparticles as advanced non-precious catalysts: Carbon-shell influence on the electrocatalytic behaviour. Journal of Colloid and Interface Science, 2021, 581, 905-918.	9.4	39
8	Improving the electrocatalytic performance of sustainable Co/carbon materials for the oxygen evolution reaction by ultrasound and microwave assisted synthesis. Sustainable Energy and Fuels, 2021, 5, 720-731.	4.9	21
9	Fullerenes as Key Components for Lowâ€Dimensional (Photo)electrocatalytic Nanohybrid Materials. Angewandte Chemie, 2021, 133, 124-143.	2.0	11
10	Tuning CO binding strength <i>via</i> engineering the copper/borophene interface for highly efficient conversion of CO into ethanol. Journal of Materials Chemistry A, 2021, 9, 13192-13199.	10.3	23
11	Nature-inspired hierarchical materials for sensing and energy storage applications. Chemical Society Reviews, 2021, 50, 4856-4871.	38.1	49
12	Co–Cu Bimetallic Metal Organic Framework Catalyst Outperforms the Pt/C Benchmark for Oxygen Reduction. Journal of the American Chemical Society, 2021, 143, 4064-4073.	13.7	175
13	A New Class of Molecular Electrocatalysts for Hydrogen Evolution: Catalytic Activity of M ₃ N@C _{2<i>n</i>} (2 <i>n</i> = 68, 78, and 80) Fullerenes. Journal of the American Chemical Society, 2021, 143, 6037-6042.	13.7	37
14	Unravelling the Reaction Mechanisms of N ₂ Fixation on Molybdenum Nitride: A Full DFT Study from the Pristine Surface to Heteroatom Anchoring. ChemSusChem, 2021, 14, 3257-3266.	6.8	22
15	Crystallographic Characterization of U@C _{2<i>n</i>} (2 <i>n</i> = 82–86): Insights about Metal–Cage Interactions for Mono-metallofullerenes. Journal of the American Chemical Society, 2021, 143, 15309-15318.	13.7	22
16	Tuning the Intermolecular Electron Transfer of Low-Dimensional and Metal-Free BCN/C ₆₀ Electrocatalysts via Interfacial Defects for Efficient Hydrogen and Oxygen Electrochemistry. Journal of the American Chemical Society, 2021, 143, 1203-1215.	13.7	140
17	Graphynes as emerging 2D-platforms for electronic and energy applications: a computational perspective. Materials Chemistry Frontiers, 2021, 5, 6392-6412.	5.9	17
18	The role of fullerene derivatives in perovskite solar cells: electron transporting or electron electron extraction layers?. Journal of Materials Chemistry C, 2021, 9, 10759-10767.	5.5	20

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19	Mechanochemically Synthetized PAN-Based Co-N-Doped Carbon Materials as Electrocatalyst for Oxygen Evolution Reaction. Nanomaterials, 2021, 11, 290.	4.1	10
20	Computational Study of the Curvature-Promoted Anchoring of Transition Metals for Water Splitting. Nanomaterials, 2021, 11, 3173.	4.1	3
21	Improving Electrochemical Hydrogen Evolution of Ag@CN Nanocomposites by Synergistic Effects with α-Rich Proteins. ACS Applied Materials & amp; Interfaces, 2020, 12, 2207-2215.	8.0	20
22	Metal-Organic frameworks-derived multifunctional carbon encapsulated metallic nanocatalysts for catalytic peroxymonosulfate activation and electrochemical hydrogen generation. Molecular Catalysis, 2020, 498, 111241.	2.0	13
23	Tailoring the Interfacial Interactions of van der Waals 1T-MoS ₂ /C ₆₀ Heterostructures for High-Performance Hydrogen Evolution Reaction Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 17923-17927.	13.7	112
24	Tuning of Trifunctional NiCu Bimetallic Nanoparticles Confined in a Porous Carbon Network with Surface Composition and Local Structural Distortions for the Electrocatalytic Oxygen Reduction, Oxygen and Hydrogen Evolution Reactions. Journal of the American Chemical Society, 2020, 142, 14688-14701.	13.7	231
25	Proteins-based nanocatalyts for energy conversion reactions. Topics in Current Chemistry Collections, 2020, , 237-255.	0.5	1
26	Spent tea leaves templated synthesis of highly active and durable cobalt-based trifunctional versatile electrocatalysts for hydrogen and oxygen evolution and oxygen reduction reactions. Green Chemistry, 2020, 22, 6967-6980.	9.0	38
27	Atomically embedded asymmetrical dual-metal dimers on N-doped graphene for ultra-efficient nitrogen reduction reaction. Journal of Catalysis, 2020, 388, 77-83.	6.2	123
28	Proteins-Based Nanocatalysts for Energy Conversion Reactions. Topics in Current Chemistry, 2020, 378, 43.	5.8	3
29	Benign-by-design nature-inspired bionanoconjugates for energy conversion and storage applications. Current Opinion in Green and Sustainable Chemistry, 2020, 26, 100373.	5.9	5
30	Nanomaterials and catalysis for green chemistry. Current Opinion in Green and Sustainable Chemistry, 2020, 24, 48-55.	5.9	53
31	In Situ Aniline-Polymerized Interfaces on GO–PVA Nanoplatforms as Bifunctional Supercapacitors and pH-Universal ORR Electrodes. ACS Applied Energy Materials, 2020, 3, 4727-4737.	5.1	13
32	Facile synthesis of C ₆₀ -nano materials and their application in high-performance water splitting electrocatalysis. Sustainable Energy and Fuels, 2020, 4, 2900-2906.	4.9	19
33	Biomass-derived ultrathin carbon-shell coated iron nanoparticles as high-performance tri-functional HER, ORR and Fenton-like catalysts. Journal of Cleaner Production, 2020, 275, 124141.	9.3	54
34	Tailoring the ORR and HER electrocatalytic performances of gold nanoparticles through metal–ligand interfaces. Journal of Materials Chemistry A, 2019, 7, 20425-20434.	10.3	45
35	Solvent-Free Preparation of 1,8-Dioxo-Octahydroxanthenes Employing Iron Oxide Nanomaterials. Materials, 2019, 12, 2386.	2.9	16
36	Mimicking the bioelectrocatalytic function of recombinant CotA laccase through electrostatically self-assembled bioconjugates. Nanoscale, 2019, 11, 1549-1554.	5.6	9

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37	Benign-by-design nature-inspired nanosystems in biofuels production and catalytic applications. Renewable and Sustainable Energy Reviews, 2019, 112, 195-252.	16.4	76
38	Boosting the electrochemical oxygen reduction activity of hemoglobin on fructose@graphene-oxide nanoplatforms. Chemical Communications, 2019, 55, 4671-4674.	4.1	15
39	Citrate-Stabilized Gold Nanoparticles as High-Performance Electrocatalysts: The Role of Size in the Electroreduction of Oxygen. Journal of Physical Chemistry C, 2019, 123, 9807-9812.	3.1	40
40	Continuous Flow Synthesis of High Valuable N-Heterocycles via Catalytic Conversion of Levulinic Acid. Frontiers in Chemistry, 2019, 7, 103.	3.6	21
41	Versatile Protein-Templated TiO ₂ Nanocomposite for Energy Storage and Catalytic Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 5329-5337.	6.7	24
42	Controllable Design of Polypyrrole-Iron Oxide Nanocoral Architectures for Supercapacitors with Ultrahigh Cycling Stability. ACS Applied Energy Materials, 2019, 2, 2161-2168.	5.1	25
43	Unprecedented Wiring Efficiency of Sulfonated Graphitic Carbon Nitride Materials: Toward High-Performance Amperometric Recombinant CotA Laccase Biosensors. ACS Sustainable Chemistry and Engineering, 2019, 7, 1474-1484.	6.7	21
44	Environmental Catalysis: Present and Future. ChemCatChem, 2019, 11, 18-38.	3.7	87
45	Non-porous carbonaceous materials derived from coffee waste grounds as highly sustainable anodes for lithium-ion batteries. Journal of Cleaner Production, 2019, 207, 411-417.	9.3	85
46	Sunlightâ€Driven Hydrogen Production Using an Annular Flow Photoreactor and gâ€C ₃ N ₄ â€Based Catalysts. ChemPhotoChem, 2018, 2, 870-877.	3.0	20
47	Highly efficient direct oxygen electro-reduction by partially unfolded laccases immobilized on waste-derived magnetically separable nanoparticles. Nanoscale, 2018, 10, 3961-3968.	5.6	31
48	Influence of Patterning in the Acid–Base Interfacial Properties of Homogeneously Mixed CH ₃ - and COOH-Terminated Self-Assembled Monolayers. Journal of Physical Chemistry C, 2018, 122, 2854-2865.	3.1	14
49	Synthesis of carbon-based fluorescent polymers driven by catalytically active magnetic bioconjugates. Green Chemistry, 2018, 20, 225-229.	9.0	34
50	Microwave-assisted preparation of Ag/Ag ₂ S carbon hybrid structures from pig bristles as efficient HER catalysts. Journal of Materials Chemistry A, 2018, 6, 21516-21523.	10.3	48
51	Benign-by-Design Orange Peel-Templated Nanocatalysts for Continuous Flow Conversion of Levulinic Acid to N-Heterocycles. ACS Sustainable Chemistry and Engineering, 2018, 6, 16637-16644.	6.7	38
52	Copper Tridentate Schiff Base Complex Supported on SBA-15 as Efficient Nanocatalyst for Three-Component Reactions under Solventless Conditions. Materials, 2018, 11, 2458.	2.9	15
53	Encapsulated Laccases as Effective Electrocatalysts for Oxygen Reduction Reactions. ACS Sustainable Chemistry and Engineering, 2018, 6, 11058-11062.	6.7	18
54	Efficient Mechanochemical Bifunctional Nanocatalysts for the Conversion of Isoeugenol to Vanillin. Frontiers in Chemistry, 2018, 6, 77.	3.6	20

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55	Mechanochemistry: Toward Sustainable Design of Advanced Nanomaterials for Electrochemical Energy Storage and Catalytic Applications. ACS Sustainable Chemistry and Engineering, 2018, 6, 9530-9544.	6.7	130
56	Cytosine Palladium Hybrid Complex Immobilized on SBAâ€15 as Efficient Heterogeneous Catalyst for the Aqueous Suzukiâ€Miyaura Coupling. ChemistrySelect, 2018, 3, 6102-6106.	1.5	5
57	Solventless mechanochemical preparation of novel magnetic bioconjugates. Chemical Communications, 2017, 53, 7635-7637.	4.1	26
58	Mechanochemical design of hemoglobin-functionalised magnetic nanomaterials for energy storage devices. Journal of Materials Chemistry A, 2017, 5, 16404-16411.	10.3	18
59	Formation of 2-D Crystalline Intermixed Domains at the Molecular Level in Binary Self-Assembled Monolayers from a Lyotropic Mixture. Journal of Physical Chemistry C, 2016, 120, 8595-8606.	3.1	7
60	Cylindrical C ₉₆ Fullertubes: A Highly Active Metalâ€Free O ₂ â€Reduction Electrocatalyst. Angewandte Chemie, 0, , .	2.0	3