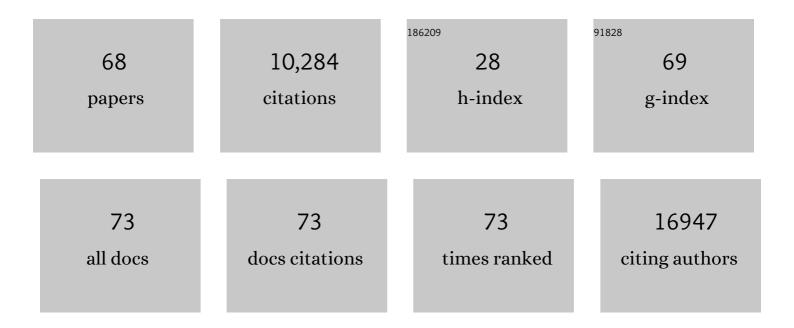
## Rafael Silva

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enhanced catalytic activity in strained chemically exfoliated WS2 nanosheets for hydrogen evolution. Nature Materials, 2013, 12, 850-855.	13.3	2,326
2	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. Chemical Reviews, 2016, 116, 3722-3811.	23.0	2,051
3	Conducting MoS <sub>2</sub> Nanosheets as Catalysts for Hydrogen Evolution Reaction. Nano Letters, 2013, 13, 6222-6227.	4.5	1,948
4	Cobaltâ€Embedded Nitrogenâ€Rich Carbon Nanotubes Efficiently Catalyze Hydrogen Evolution Reaction at All pH Values. Angewandte Chemie - International Edition, 2014, 53, 4372-4376.	7.2	857
5	Efficient Metal-Free Electrocatalysts for Oxygen Reduction: Polyaniline-Derived N- and O-Doped Mesoporous Carbons. Journal of the American Chemical Society, 2013, 135, 7823-7826.	6.6	661
6	Efficient oxygen evolution reaction catalyzed by low-density Ni-doped Co3O4 nanomaterials derived from metal-embedded graphitic C3N4. Chemical Communications, 2013, 49, 7522.	2.2	220
7	Synthesis and characterization of ZnO, CuO and a mixed Zn and Cu oxide. Materials Chemistry and Physics, 2009, 115, 110-115.	2.0	180
8	Aplicações de fibras lignocelulósicas na quÃmica de polÃmeros e em compósitos. Quimica Nova, 2009, 32, 661-671.	0.3	111
9	Cu-doped carbon nitride: Bio-inspired synthesis of H2-evolving electrocatalysts using graphitic carbon nitride (g-C3N4) as a host material. Applied Surface Science, 2015, 357, 221-228.	3.1	97
10	Hydrogels based on PAAm network with PNIPAAm included: hydrophilic–hydrophobic transition measured by the partition of Orange II and Methylene Blue in water. Polymer, 2003, 44, 4213-4219.	1.8	88
11	A self-cleaning porous TiO <sub>2</sub> –Ag core–shell nanocomposite material for surface-enhanced Raman scattering. Chemical Communications, 2013, 49, 382-384.	2.2	84
12	Edgeâ€Planeâ€Rich Nitrogenâ€Doped Carbon Nanoneedles and Efficient Metalâ€Free Electrocatalysts. Angewandte Chemie - International Edition, 2012, 51, 7171-7175.	7.2	83
13	Copper nanoparticles stabilized by reduced graphene oxide for CO2 reduction reaction. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	68
14	Mechanically improved polyvinyl alcohol-composite films using modified cellulose nanowhiskers as nano-reinforcement. Carbohydrate Polymers, 2018, 191, 25-34.	5.1	58
15	Hybrid materials for bone tissue engineering from biomimetic growth of hydroxiapatite on cellulose nanowhiskers. Carbohydrate Polymers, 2016, 152, 734-746.	5.1	54
16	N-doped ordered mesoporous carbons with improved charge storage capacity by tailoring N-dopant density with solvent-assisted synthesis. Journal of Materials Chemistry A, 2014, 2, 15181-15190.	5.2	50
17	Cellulose nanowhiskers decorated with silver nanoparticles as an additive to antibacterial polymers membranes fabricated by electrospinning. Journal of Colloid and Interface Science, 2018, 531, 705-715.	5.0	50
18	Multifunctional hybrid aerogels: hyperbranched polymer-trapped mesoporous silica nanoparticles for sustained and prolonged drug release. Nanoscale, 2018, 10, 1704-1715.	2.8	48

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19	Noble Metalâ€Free Oxidative Electrocatalysts: Polyaniline and Co(II)â€Polyaniline Nanostructures Hosted in Nanoporous Silica. Advanced Materials, 2012, 24, 1878-1883.	11.1	47
20	A sensitive electrochemical sensor for Pb2+ ions based on ZnO nanofibers functionalized by L-cysteine. Journal of Molecular Liquids, 2020, 309, 113041.	2.3	45
21	From ionic liquid-modified cellulose nanowhiskers to highly active metal-free nanostructured carbon catalysts for the hydrazine oxidation reaction. Journal of Materials Chemistry A, 2017, 5, 1066-1077.	5.2	40
22	Advanced fibroblast proliferation inhibition for biocompatible coating by electrostatic layer-by-layer assemblies of heparin and chitosan derivatives. Journal of Colloid and Interface Science, 2016, 474, 9-17.	5.0	38
23	In situ growth of manganese oxide nanosheets over titanium dioxide nanofibers and their performance as active material for supercapacitor. Journal of Colloid and Interface Science, 2019, 555, 373-382.	5.0	35
24	Co <sub>3</sub> O <sub>4</sub> nanoparticles/cellulose nanowhiskers-derived amorphous carbon nanoneedles: sustainable materials for supercapacitors and oxygen reduction electrocatalysis. RSC Advances, 2015, 5, 49385-49391.	1.7	32
25	Hybrid Materials and Nanocomposites as Multifunctional Biomaterials. Current Pharmaceutical Design, 2017, 23, 3794-3813.	0.9	32
26	Deriving Efficient Porous Heteroatomâ€Doped Carbon Electrocatalysts for Hydrazine Oxidation from Transition Metal Ionsâ€Coordinated Casein. Advanced Functional Materials, 2019, 29, 1808486.	7.8	31
27	Nanoporous Heteroatom-Doped Carbons Derived from Cotton Waste: Efficient Hydrazine Oxidation Electrocatalysts. ACS Applied Energy Materials, 2019, 2, 2313-2323.	2.5	29
28	Multiple hydrophilic polymer ultra-thin layers covalently anchored to polyethylene films. Polymer, 2008, 49, 4066-4075.	1.8	28
29	Maleimide Immobilized on a PE Surface: Preparation, Characterization and Application as a Free-Radical Photoinitiator. Langmuir, 2009, 25, 873-880.	1.6	28
30	Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 22810-22817.	1.5	28
31	Effect of phase composition on the photocatalytic activity of titanium dioxide obtained from supercritical antisolvent. Journal of Colloid and Interface Science, 2019, 535, 245-254.	5.0	28
32	Preparation and characterization of NiO, Fe2O3, Ni0.04Zn0.96O and Fe0.03Zn0.97O nanoparticles. Materials Chemistry and Physics, 2009, 118, 447-452.	2.0	27
33	Hydroxyapatite nanowhiskers embedded in chondroitin sulfate microspheres as colon targeted drug delivery systems. Journal of Materials Chemistry B, 2015, 3, 6837-6846.	2.9	27
34	Metal-free ovalbumin-derived N-S-co-doped nanoporous carbon materials as efficient electrocatalysts for oxygen reduction reaction. Applied Surface Science, 2019, 467-468, 75-83.	3.1	26
35	Biomimetic nanocomposite based on hydroxyapatite mineralization over chemically modified cellulose nanowhiskers: An active platform for osteoblast proliferation. International Journal of Biological Macromolecules, 2019, 125, 133-142.	3.6	23
36	Nanofibrous silica microparticles/polymer hybrid aerogels for sustained delivery of poorly water-soluble camptothecin. Journal of Colloid and Interface Science, 2020, 567, 92-102.	5.0	22

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37	Functionalized Mesoporous Silica Nanoparticles for Glucose―and pHâ€Stimulated Release of Insulin. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 616-623.	0.6	18
38	Covalently-layers of PVA and PAA and in situ formed Ag nanoparticles as versatile antimicrobial surfaces. International Journal of Biological Macromolecules, 2016, 91, 329-337.	3.6	18
39	Calcium Carbonate Crystallization on a Polyethylene Surface Containing Ultrathin Layers of Hydrophilic Polymers. Crystal Growth and Design, 2009, 9, 3307-3312.	1.4	17
40	Metal doped carbon nanoneedles and effect of carbon organization with activity for hydrogen evolution reaction (HER). Carbohydrate Polymers, 2016, 137, 719-725.	5.1	17
41	Synthesis of Ag-PVA and Ag-PVA/PET-s20 composites by supercritical CO2 method and study of silver nanoparticle growth. Journal of the Brazilian Chemical Society, 2008, 19, 1224-1229.	0.6	16
42	Designing hybrid materials with multifunctional interfaces for wound dressing, electrocatalysis, and chemical separation. Journal of Colloid and Interface Science, 2019, 533, 106-125.	5.0	16
43	Miscibility influence in the thermal stability and kinetic parameters of poly (3-hydroxybutyrate)/poly (ethylene terephthalate) sulphonated blends. Polimeros, 2010, 20, 153-158.	0.2	15
44	Two-dimensional thermoresponsive sub-microporous substrate for accelerated cell tissue growth and facile detachment. Journal of Colloid and Interface Science, 2019, 547, 78-86.	5.0	15
45	Trapped metallic cobalt nanoparticles in doped porous graphite: An electrocatalyst that gets better over reaction time. Applied Catalysis B: Environmental, 2017, 217, 144-153.	10.8	14
46	Mesoporous silica decorated with L-cysteine as active hybrid materials for electrochemical sensing of heavy metals. Journal of Environmental Chemical Engineering, 2021, 9, 106492.	3.3	14
47	Growth of hydrogel nano- and microlayers covalently bounded onto PE surface. Applied Surface Science, 2009, 255, 6345-6354.	3.1	11
48	Optimization of Antioxidant Compounds Extraction from Flesh of New Developed Apple Cultivar Using Response Surface Methodology. Food Analytical Methods, 2013, 6, 1407-1415.	1.3	11
49	Solid-state polymerization of EDTA and ethylenediamine as one-step approach to monodisperse hyperbranched polyamides. RSC Advances, 2016, 6, 40717-40723.	1.7	11
50	Controlling cell growth with tailorable 2D nanoholes arrays. Journal of Colloid and Interface Science, 2016, 466, 150-161.	5.0	10
51	Drug polarity effect over the controlled release in casein and chondroitin sulfate-based hydrogels. International Journal of Biological Macromolecules, 2020, 158, 116-126.	3.6	10
52	Synthesis of a thermosensitive surface by construction of a thin layer of poly (N-isopropylacrylamide) on maleimide-immobilized polypropylene. Journal of Colloid and Interface Science, 2012, 367, 494-501.	5.0	8
53	Carbon-Capped Zerovalent Nickel and Cobalt Nanoparticles as Multitask Hybrid Electrocatalysts. ACS Applied Energy Materials, 2018, 1, 4939-4949.	2.5	7
54	Rod-shaped keratin nanoparticles extracted from human hair by acid hydrolysis as photothermally triggered berberine delivery system. Advanced Powder Technology, 2022, 33, 103353.	2.0	7

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55	Nitrogen and Phosphorus Coâ€doped Nanoporous Carbons from Phosphoprotein/Silica Selfâ€Assemblies for Energy Storage in Supercapacitors. ChemElectroChem, 2020, 7, 4773-4781.	1.7	6
56	Nanoporous carbons derived from metal-conjugated phosphoprotein/silica: Efficient electrocatalysts for oxygen reduction and hydrazine oxidation reactions. Journal of Electroanalytical Chemistry, 2021, 882, 114997.	1.9	6
57	Hosted Formation of PbS Crystals on Polyethylene Modified Surface. Journal of the Brazilian Chemical Society, 2013, 24, 336-343.	0.6	6
58	Water Droplet Self-Assembly to Au Nanoporous Films with Special Light Trapping and Surface Electromagnetic Field Enhancement. Langmuir, 2018, 34, 14124-14133.	1.6	5
59	Lung toxicities of core–shell nanoparticles composed of carbon, cobalt, and silica. International Journal of Nanomedicine, 2013, 8, 1223.	3.3	4
60	Enhancing Near-Infrared Photothermal Efficiency of Biocompatible Flame-Synthesized Carbon Nano-Onions with Metal Dopants and Silica Coating. ACS Applied Bio Materials, 2020, 3, 5984-5994.	2.3	4
61	Electrospun fibers of poly (vinyl alcohol): zinc acetate (PVA:AcZn) and further ZnO production: evaluation of PVA:AcZn ratio and annealing temperature effects on ZnO structure. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	4
62	N-doped spherical activated carbon from dye adsorption: Bifunctional electrocatalyst for hydrazine oxidation and oxygen reduction. Journal of Environmental Chemical Engineering, 2022, 10, 107458.	3.3	4
63	Unveiling Oneâ€Dimensional Supramolecular Structures Formed through ï€â€"ï€ Stacking of Phenothiazines by Differential Pulse Voltammetry. ChemPhysChem, 2017, 18, 1224-1228.	1.0	3
64	Solid-state synthesized hyperbranched polyamides as hosts for antimicrobial silver nanoparticles. Materials Today Communications, 2019, 21, 100647.	0.9	2
65	Fast and facile size selection processing for high quality cellulose nanowhiskers. Cellulose, 2020, 27, 205-214.	2.4	2
66	Enhancement of selectivity towards the synthesis of hydrogen peroxide by dimensional effect in mesoporous carbon. Microporous and Mesoporous Materials, 2022, 333, 111741.	2.2	2
67	Sulphonated Poly(ethylene terephthalate)/Poly(3-hydroxy butyrate) Blends: Miscibility, Thermal Behavior, and Specific Interactions. E-Polymers, 2007, 7, .	1.3	0

Nanocatalysts for fuel cells. , 2022, , 579-604.