

Rafael Silva

List of Publications by Year in descending order

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68
papers

10,284
citations

185998

28
h-index

91712

69
g-index

73
all docs

73
docs citations

73
times ranked

16947
citing authors

#	ARTICLE	IF	CITATIONS
1	Rod-shaped keratin nanoparticles extracted from human hair by acid hydrolysis as photothermally triggered berberine delivery system. <i>Advanced Powder Technology</i> , 2022, 33, 103353.	2.0	7
2	Enhancement of selectivity towards the synthesis of hydrogen peroxide by dimensional effect in mesoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2022, 333, 111741.	2.2	2
3	N-doped spherical activated carbon from dye adsorption: Bifunctional electrocatalyst for hydrazine oxidation and oxygen reduction. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107458.	3.3	4
4	Nanocatalysts for fuel cells. , 2022, , 579-604.		0
5	Nanoporous carbons derived from metal-conjugated phosphoprotein/silica: Efficient electrocatalysts for oxygen reduction and hydrazine oxidation reactions. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114997.	1.9	6
6	Mesoporous silica decorated with L-cysteine as active hybrid materials for electrochemical sensing of heavy metals. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106492.	3.3	14
7	Fast and facile size selection processing for high quality cellulose nanowhiskers. <i>Cellulose</i> , 2020, 27, 205-214.	2.4	2
8	Nitrogen and Phosphorus Co-doped Nanoporous Carbons from Phosphoprotein/Silica Self-Assemblies for Energy Storage in Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 4773-4781.	1.7	6
9	Enhancing Near-Infrared Photothermal Efficiency of Biocompatible Flame-Synthesized Carbon Nano-Onions with Metal Dopants and Silica Coating. <i>ACS Applied Bio Materials</i> , 2020, 3, 5984-5994.	2.3	4
10	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. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	4
11	Nanofibrous silica microparticles/polymer hybrid aerogels for sustained delivery of poorly water-soluble camptothecin. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 92-102.	5.0	22
12	Drug polarity effect over the controlled release in casein and chondroitin sulfate-based hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 116-126.	3.6	10
13	A sensitive electrochemical sensor for Pb ²⁺ ions based on ZnO nanofibers functionalized by L-cysteine. <i>Journal of Molecular Liquids</i> , 2020, 309, 113041.	2.3	45
14	Designing hybrid materials with multifunctional interfaces for wound dressing, electrocatalysis, and chemical separation. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 106-125.	5.0	16
15	In situ growth of manganese oxide nanosheets over titanium dioxide nanofibers and their performance as active material for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 373-382.	5.0	35
16	Solid-state synthesized hyperbranched polyamides as hosts for antimicrobial silver nanoparticles. <i>Materials Today Communications</i> , 2019, 21, 100647.	0.9	2
17	Two-dimensional thermoresponsive sub-microporous substrate for accelerated cell tissue growth and facile detachment. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 78-86.	5.0	15
18	Nanoporous Heteroatom-Doped Carbons Derived from Cotton Waste: Efficient Hydrazine Oxidation Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2019, 2, 2313-2323.	2.5	29

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19	Deriving Efficient Porous Heteroatom-Doped Carbon Electrocatalysts for Hydrazine Oxidation from Transition Metal Ions-Coordinated Casein. <i>Advanced Functional Materials</i> , 2019, 29, 1808486.	7.8	31
20	Metal-free ovalbumin-derived N-S-co-doped nanoporous carbon materials as efficient electrocatalysts for oxygen reduction reaction. <i>Applied Surface Science</i> , 2019, 467-468, 75-83.	3.1	26
21	Biomimetic nanocomposite based on hydroxyapatite mineralization over chemically modified cellulose nanowhiskers: An active platform for osteoblast proliferation. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 133-142.	3.6	23
22	Effect of phase composition on the photocatalytic activity of titanium dioxide obtained from supercritical antisolvent. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 245-254.	5.0	28
23	Mechanically improved polyvinyl alcohol-composite films using modified cellulose nanowhiskers as nano-reinforcement. <i>Carbohydrate Polymers</i> , 2018, 191, 25-34.	5.1	58
24	Multifunctional hybrid aerogels: hyperbranched polymer-trapped mesoporous silica nanoparticles for sustained and prolonged drug release. <i>Nanoscale</i> , 2018, 10, 1704-1715.	2.8	48
25	Water Droplet Self-Assembly to Au Nanoporous Films with Special Light Trapping and Surface Electromagnetic Field Enhancement. <i>Langmuir</i> , 2018, 34, 14124-14133.	1.6	5
26	Cellulose nanowhiskers decorated with silver nanoparticles as an additive to antibacterial polymers membranes fabricated by electrospinning. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 705-715.	5.0	50
27	Carbon-Capped Zerovalent Nickel and Cobalt Nanoparticles as Multitask Hybrid Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 4939-4949.	2.5	7
28	Unveiling One-Dimensional Supramolecular Structures Formed through π - π Stacking of Phenothiazines by Differential Pulse Voltammetry. <i>ChemPhysChem</i> , 2017, 18, 1224-1228.	1.0	3
29	From ionic liquid-modified cellulose nanowhiskers to highly active metal-free nanostructured carbon catalysts for the hydrazine oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1066-1077.	5.2	40
30	Trapped metallic cobalt nanoparticles in doped porous graphite: An electrocatalyst that gets better over reaction time. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 144-153.	10.8	14
31	Hybrid Materials and Nanocomposites as Multifunctional Biomaterials. <i>Current Pharmaceutical Design</i> , 2017, 23, 3794-3813.	0.9	32
32	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. <i>Chemical Reviews</i> , 2016, 116, 3722-3811.	23.0	2,051
33	Covalently-layers of PVA and PAA and in situ formed Ag nanoparticles as versatile antimicrobial surfaces. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 329-337.	3.6	18
34	Advanced fibroblast proliferation inhibition for biocompatible coating by electrostatic layer-by-layer assemblies of heparin and chitosan derivatives. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 9-17.	5.0	38
35	Solid-state polymerization of EDTA and ethylenediamine as one-step approach to monodisperse hyperbranched polyamides. <i>RSC Advances</i> , 2016, 6, 40717-40723.	1.7	11
36	Hybrid materials for bone tissue engineering from biomimetic growth of hydroxiapatite on cellulose nanowhiskers. <i>Carbohydrate Polymers</i> , 2016, 152, 734-746.	5.1	54

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37	Controlling cell growth with tailorable 2D nanoholes arrays. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 150-161.	5.0	10
38	Metal doped carbon nanoneedles and effect of carbon organization with activity for hydrogen evolution reaction (HER). <i>Carbohydrate Polymers</i> , 2016, 137, 719-725.	5.1	17
39	Co ₃ O ₄ nanoparticles/cellulose nanowhiskers-derived amorphous carbon nanoneedles: sustainable materials for supercapacitors and oxygen reduction electrocatalysis. <i>RSC Advances</i> , 2015, 5, 49385-49391.	1.7	32
40	Copper nanoparticles stabilized by reduced graphene oxide for CO ₂ reduction reaction. <i>Materials for Renewable and Sustainable Energy</i> , 2015, 4, 1.	1.5	68
41	Hydroxyapatite nanowhiskers embedded in chondroitin sulfate microspheres as colon targeted drug delivery systems. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6837-6846.	2.9	27
42	Cu-doped carbon nitride: Bio-inspired synthesis of H ₂ -evolving electrocatalysts using graphitic carbon nitride (g-C ₃ N ₄) as a host material. <i>Applied Surface Science</i> , 2015, 357, 221-228.	3.1	97
43	Functionalized Mesoporous Silica Nanoparticles for Glucose and pH Stimulated Release of Insulin. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 616-623.	0.6	18
44	Cobalt Embedded Nitrogen Rich Carbon Nanotubes Efficiently Catalyze Hydrogen Evolution Reaction at All pH Values. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4372-4376.	7.2	857
45	N-doped ordered mesoporous carbons with improved charge storage capacity by tailoring N-dopant density with solvent-assisted synthesis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15181-15190.	5.2	50
46	Optimization of Antioxidant Compounds Extraction from Flesh of New Developed Apple Cultivar Using Response Surface Methodology. <i>Food Analytical Methods</i> , 2013, 6, 1407-1415.	1.3	11
47	Conducting MoS ₂ Nanosheets as Catalysts for Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2013, 13, 6222-6227.	4.5	1,948
48	Efficient oxygen evolution reaction catalyzed by low-density Ni-doped Co ₃ O ₄ nanomaterials derived from metal-embedded graphitic C ₃ N ₄ . <i>Chemical Communications</i> , 2013, 49, 7522.	2.2	220
49	A self-cleaning porous TiO ₂ Ag core shell nanocomposite material for surface-enhanced Raman scattering. <i>Chemical Communications</i> , 2013, 49, 382-384.	2.2	84
50	Enhanced catalytic activity in strained chemically exfoliated WS ₂ nanosheets for hydrogen evolution. <i>Nature Materials</i> , 2013, 12, 850-855.	13.3	2,326
51	Efficient Metal-Free Electrocatalysts for Oxygen Reduction: Polyaniline-Derived N- and O-Doped Mesoporous Carbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 7823-7826.	6.6	661
52	Lung toxicities of core–shell nanoparticles composed of carbon, cobalt, and silica. <i>International Journal of Nanomedicine</i> , 2013, 8, 1223.	3.3	4
53	Hosted Formation of PbS Crystals on Polyethylene Modified Surface. <i>Journal of the Brazilian Chemical Society</i> , 2013, 24, 336-343.	0.6	6
54	Edge Plane Rich Nitrogen Doped Carbon Nanoneedles and Efficient Metal Free Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7171-7175.	7.2	83

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55	Synthesis of a thermosensitive surface by construction of a thin layer of poly (N-isopropylacrylamide) on maleimide-immobilized polypropylene. <i>Journal of Colloid and Interface Science</i> , 2012, 367, 494-501.	5.0	8
56	Noble Metal-Free Oxidative Electrocatalysts: Polyaniline and Co(II)-Polyaniline Nanostructures Hosted in Nanoporous Silica. <i>Advanced Materials</i> , 2012, 24, 1878-1883.	11.1	47
57	Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22810-22817.	1.5	28
58	Miscibility influence in the thermal stability and kinetic parameters of poly (3-hydroxybutyrate)/poly (ethylene terephthalate) sulphonated blends. <i>Polimeros</i> , 2010, 20, 153-158.	0.2	15
59	Aplicações de fibras lignocelulósicas na química de polímeros e em compostos. <i>Química Nova</i> , 2009, 32, 661-671.	0.3	111
60	Synthesis and characterization of ZnO, CuO and a mixed Zn and Cu oxide. <i>Materials Chemistry and Physics</i> , 2009, 115, 110-115.	2.0	180
61	Preparation and characterization of NiO, Fe ₂ O ₃ , Ni _{0.04} Zn _{0.96} O and Fe _{0.03} Zn _{0.97} O nanoparticles. <i>Materials Chemistry and Physics</i> , 2009, 118, 447-452.	2.0	27
62	Growth of hydrogel nano- and microlayers covalently bounded onto PE surface. <i>Applied Surface Science</i> , 2009, 255, 6345-6354.	3.1	11
63	Maleimide Immobilized on a PE Surface: Preparation, Characterization and Application as a Free-Radical Photoinitiator. <i>Langmuir</i> , 2009, 25, 873-880.	1.6	28
64	Calcium Carbonate Crystallization on a Polyethylene Surface Containing Ultrathin Layers of Hydrophilic Polymers. <i>Crystal Growth and Design</i> , 2009, 9, 3307-3312.	1.4	17
65	Multiple hydrophilic polymer ultra-thin layers covalently anchored to polyethylene films. <i>Polymer</i> , 2008, 49, 4066-4075.	1.8	28
66	Synthesis of Ag-PVA and Ag-PVA/PET-s20 composites by supercritical CO ₂ method and study of silver nanoparticle growth. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 1224-1229.	0.6	16
67	Sulphonated Poly(ethylene terephthalate)/Poly(3-hydroxy butyrate) Blends: Miscibility, Thermal Behavior, and Specific Interactions. <i>E-Polymers</i> , 2007, 7, .	1.3	0
68	Hydrogels based on PAAm network with PNIPAAm included: hydrophilic-hydrophobic transition measured by the partition of Orange II and Methylene Blue in water. <i>Polymer</i> , 2003, 44, 4213-4219.	1.8	88