Giovanna Machado

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6730124/publications.pdf

Version: 2024-02-01

115 papers	5,367 citations	81900 39 h-index	85541 71 g-index
118 all docs	118 docs citations	118 times ranked	6345 citing authors

#	Article	IF	Citations
1	The Role of Pd Nanoparticles in Ionic Liquid in the Heck Reaction. Journal of the American Chemical Society, 2005, 127, 3298-3299.	13.7	378
2	Nanoscale Pt(0) Particles Prepared in Imidazolium Room Temperature Ionic Liquids:â€‰ Synthesis from an Organometallic Precursor, Characterization, and Catalytic Properties in Hydrogenation Reactions. Inorganic Chemistry, 2003, 42, 4738-4742.	4.0	337
3	Staphylococcus aureus and Staphylococcus epidermidis infections on implants. Journal of Hospital Infection, 2018, 98, 111-117.	2.9	266
4	The Partial Hydrogenation of Benzene to Cyclohexene by Nanoscale Ruthenium Catalysts in Imidazolium Ionic Liquids. Chemistry - A European Journal, 2004, 10, 3734-3740.	3.3	233
5	Synthesis and Characterization of Pt(0) Nanoparticles in Imidazolium Ionic Liquids. Journal of Physical Chemistry B, 2006, 110, 13011-13020.	2.6	224
6	Synthesis and characterization of catalytic iridium nanoparticles in imidazolium ionic liquids. Journal of Colloid and Interface Science, 2006, 301, 193-204.	9.4	208
7	Synthesis and characterization of nickel nanoparticles dispersed in imidazolium ionic liquids. Physical Chemistry Chemical Physics, 2007, 9, 4814.	2.8	177
8	Selective Hydrogenation of 1,3-Butadiene to 1-Butene by Pd(0) Nanoparticles Embedded in Imidazolium Ionic Liquids. Advanced Synthesis and Catalysis, 2005, 347, 1404-1412.	4.3	174
9	Disclosure of the imidazolium cation coordination and stabilization mode in ionic liquid stabilized gold(0) nanoparticles. Journal of Colloid and Interface Science, 2007, 316, 189-195.	9.4	156
10	Superparamagnetic nanoparticle-supported palladium: a highly stable magnetically recoverable and reusable catalyst for hydrogenation reactions. Green Chemistry, 2007, 9, 379.	9.0	146
11	Laser-Induced Fragmentation of Transition Metal Nanoparticles in Ionic Liquids. Journal of the American Chemical Society, 2005, 127, 4588-4589.	13.7	133
12	Nanoscale Ru(0) Particles: Arene Hydrogenation Catalysts in Imidazolium Ionic Liquids. Inorganic Chemistry, 2008, 47, 8995-9001.	4.0	128
13	Cobalt Nanocubes in Ionic Liquids: Synthesis and Properties. Angewandte Chemie - International Edition, 2008, 47, 9075-9078.	13.8	106
14	Palladium nanoparticle catalysts in ionic liquids: synthesis, characterisation and selective partial hydrogenation of alkynes to Z-alkenes. Journal of Materials Chemistry, 2011, 21, 3030.	6.7	105
15	Rh(0) nanoparticles as catalyst precursors for the solventless hydroformylation of olefins. Journal of Molecular Catalysis A, 2006, 252, 212-218.	4.8	104
16	Cytotoxic and genotoxic effects of silver nanoparticles on meristematic cells of Allium cepa roots: A close analysis of particle size dependence. Science of the Total Environment, 2019, 660, 459-467.	8.0	102
17	Petrology and chemistry of Permian coals from the ParanÃ¡ Basin: 1. Santa Terezinha, LeÃ£o-ButiÃ¡ and Candiota Coalfields, Rio Grande do Sul, Brazil. International Journal of Coal Geology, 2006, 68, 79-116.	5.0	90
18	Imidazolium ionic liquids as promoters and stabilising agents for the preparation of metal(0) nanoparticles by reduction and decomposition of organometallic complexes. Nanoscale, 2010, 2, 2601.	5.6	80

#	Article	IF	Citations
19	Nanostructures in ionic liquids: correlation of iridium nanoparticlesâ€™ size and shape with imidazolium saltsâ€™ structural organization and catalytic properties. Physical Chemistry Chemical Physics, 2010, 12, 6826.	2.8	79
20	Crystalline properties and morphological changes in plastically deformed isotatic polypropylene evaluated by X-ray diffraction and transmission electron microscopy. European Polymer Journal, 2005, 41, 129-138.	5.4	77
21	Functionalization of titanium dioxide nanotubes with biomolecules for biomedical applications. Materials Science and Engineering C, 2017, 81, 597-606.	7.3	73
22	On the Use of Ruthenium Dioxide in 1-n-Butyl-3-Methylimidazolium Ionic Liquids as Catalyst Precursor for Hydrogenation Reactions. Catalysis Letters, 2004, 92, 149-155.	2.6	71
23	Ruthenium nanoparticles prepared from ruthenium dioxide precursor: Highly active catalyst for hydrogenation of arenes under mild conditions. Journal of Molecular Catalysis A, 2009, 298, 69-73.	4.8	66
24	Preparation of TiO₂ Nanoparticles Coated with Ionic Liquids: A Supramolecular Approach. ACS Applied Materials & Interfaces, 2014, 6, 11536-11543.	8.0	64
25	Ruthenium dioxide nanoparticles in ionic liquids: synthesis, characterization and catalytic properties in hydrogenation of olefins and arenes. Journal of the Brazilian Chemical Society, 2004, 15, 901-910.	0.6	63
26	Structural aspects of transition-metal nanoparticles in imidazolium ionic liquids. International Journal of Nanotechnology, 2007, 4, 541.	0.2	58
27	On the formation of anisotropic gold nanoparticles by sputtering onto a nitrile functionalised ionic liquid. Physical Chemistry Chemical Physics, 2011, 13, 13552.	2.8	55
28	Sputtering deposition of magnetic Ni nanoparticles directly onto an enzyme surface: a novel method to obtain a magnetic biocatalyst. Chemical Communications, 2013, 49, 1273.	4.1	55
29	Synthesis of colloids based on gold nanoparticles dispersed in castor oil. Journal of Nanoparticle Research, 2008, 10, 201-208.	1.9	54
30	Effect of chitosan nanoparticles on the inhibition of Candida spp. biofilm on denture base surface. Archives of Oral Biology, 2018, 94, 99-107.	1.8	54
31	Effect on aggregation behavior of long-chain spacers of dicationic imidazolium-based ionic liquids in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 285-294.	4.7	53
32	Economically attractive route for the preparation of high quality magnetic nanoparticles by the thermal decomposition of iron(III) acetylacetonate. Nanotechnology, 2017, 28, 115603.	2.6	52
33	Characterization of nanoparticles through medium-energy ion scattering. Journal of Applied Physics, 2009, 106, .	2.5	51
34	Controlled synthesis of Mn3O4 nanoparticles in ionic liquids. Dalton Transactions, 2013, 42, 14473.	3.3	44
35	Photocatalytic reforming of aqueous formaldehyde with hydrogen generation over TiO2 nanotubes loaded with Pt or Au nanoparticles. International Journal of Hydrogen Energy, 2016, 41, 11599-11607.	7.1	42
36	Enhanced Visible-Light Photoelectrochemical Conversion on TiO₂ Nanotubes with Bi₂S₃ Quantum Dots Obtained by in Situ Electrochemical Method. ACS Applied Energy Materials, 2018, 1, 3636-3645.	5.1	42

#	Article	IF	Citations
37	Hydrogen Reduction of Adamsâ€™ Catalyst in Ionic Liquids: Formation and Stabilization of Pt(0) Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 16463-16469.	3.1	41
38	Evaluation of photodynamic activity, photostability and in vitro drug release of zinc phthalocyanine-loaded nanocapsules. European Journal of Pharmaceutical Sciences, 2016, 83, 88-98.	4.0	40
39	Synthesis and Visible-Light-Driven Photocatalytic Activity of Ta⁴⁺ Self-Doped Gray Ta₂O₅ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 6014-6025.	3.1	40
40	Photochemical Hydrogen Production of Ta₂O₅ Nanotubes Decorated with NiO Nanoparticles by Modified Sputtering Deposition. Journal of Physical Chemistry C, 2017, 121, 5855-5863.	3.1	39
41	Palladium metal nanoparticles stabilized by ionophilic ligands in ionic liquids: synthesis and application in hydrogenation reactions. Catalysis Science and Technology, 2015, 5, 903-909.	4.1	38
42	Structural properties of the quaternary Heusler alloy Co2Cr1â^'xFexAl. Journal Physics D: Applied Physics, 2007, 40, 1524-1533.	2.8	34
43	Growth of TiO2 nanotube arrays with simultaneous Au nanoparticles impregnation: photocatalysts for hydrogen production. Journal of the Brazilian Chemical Society, 2010, 21, 1359-1365.	0.6	34
44	Direct synthesis of coated gold nanoparticles mediated by polymers with amino groups. Journal of Colloid and Interface Science, 2013, 397, 114-121.	9.4	34
45	Preparation and characterization of polyhedral oligomeric silsesquioxane (POSS) using domestic microwave oven. Journal of Non-Crystalline Solids, 2015, 428, 82-89.	3.1	32
46	Morphological and crystalline studies of isotactic polypropylene plastically deformed and evaluated by small-angle X-ray scattering, scanning electron microscopy and X-ray diffraction. European Polymer Journal, 2009, 45, 700-713.	5.4	31
47	Synthesis and characterization of thermoplastic polyurethane/nanoclay composites. Materials Science and Engineering C, 2009, 29, 474-478.	7.3	30
48	Chemical composition and antibacterial activity of Eugenia brejoensis essential oil nanoemulsions against Pseudomonas fluorescens. LWT - Food Science and Technology, 2018, 93, 659-664.	5.2	30
49	Reactive melt blending of PSâ€POSS hybrid nanocomposites. Journal of Applied Polymer Science, 2013, 128, 811-827.	2.6	29
50	Coreâ€“Shell Feâ€“Pt Nanoparticles in Ionic Liquids: Magnetic and Catalytic Properties. Journal of Physical Chemistry C, 2018, 122, 4641-4650.	3.1	27
51	Removal of coliform bacteria from industrial wastewaters using polyelectrolytes/silver nanoparticles self-assembled thin films. Journal of Environmental Chemical Engineering, 2016, 4, 137-146.	6.7	26
52	Structure, composition, and mechanical characterization of dc sputtered TiN-MoS2 nanocomposite thin films. Surface and Coatings Technology, 2011, 205, 3810-3815.	4.8	25
53	Effects of the large distribution of CdS quantum dot sizes on the charge transfer interactions into TiO₂nanotubes for photocatalytic hydrogen generation. Nanotechnology, 2016, 27, 285401.	2.6	25
54	Influence of the support on PtSn electrocatalysts behavior: Ethanol electro-oxidation performance and in-situ ATR-FTIRS studies. Applied Catalysis B: Environmental, 2016, 193, 170-179.	20.2	25

#	Article	IF	Citations
55	Morphological and structural characterization of PHBV/organoclay nanocomposites by small angle X-ray scattering. Materials Science and Engineering C, 2013, 33, 932-937.	7.3	24
56	Silver Nanoparticles Obtained in PAH/PAA-Based Multilayers by Photochemical Reaction. Journal of Physical Chemistry C, 2009, 113, 19005-19010.	3.1	22
57	Uniaxial compression and stretching deformation of an i-PP/EPDM/organoclay nanocomposite. Polymer, 2011, 52, 1037-1044.	3.8	21
58	Photocatalytic Nanostructured Self-Assembled Poly(allylamine hydrochloride)/Poly(acrylic acid) Polyelectrolyte Films Containing Titanium Dioxideâ€“Gold Nanoparticles for Hydrogen Generation. Journal of Physical Chemistry C, 2013, 117, 23235-23243.	3.1	21
59	Copper nanoparticles synthesized by thermal decomposition in liquid phase: the influence of capping ligands on the synthesis and bactericidal activity. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	21
60	Characterization and Application of Nanostructured Films Containing Au and TiO₂ Nanoparticles Supported in Bacterial Cellulose. Journal of Physical Chemistry C, 2015, 119, 340-349.	3.1	20
61	Solid state evaluation of some thalidomide raw materials. International Journal of Pharmaceutics, 2009, 372, 17-23.	5.2	19
62	Influence of different restorative techniques on marginal seal of class II composite restorations. Journal of Applied Oral Science, 2010, 18, 37-43.	1.8	19
63	Encapsulation of the HSP-90 Chaperone Inhibitor 17-AAG in Stable Liposome Allow Increasing the Therapeutic Index as Assessed, in vitro, on Leishmania (L) amazonensis Amastigotes-Hosted in Mouse CBA Macrophages. Frontiers in Cellular and Infection Microbiology, 2018, 8, 303.	3.9	19
64	Residue-based TiO2/PET photocatalytic films for the degradation of textile dyes: A step in the development of green monolith reactors. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107792.	3.6	19
65	ZnO nanoparticles impact on the photosynthetic activity of Vicia faba: Effect of particle size and concentration. NanoImpact, 2020, 19, 100246.	4.5	18
66	Structural Organization and Supramolecular Interactions of the Task-Specific Ionic Liquid 1-Methyl-3-carboxymethylimidazolium Chloride: Solid, Solution, and Gas Phase Structures. Journal of Physical Chemistry C, 2014, 118, 17878-17889.	3.1	17
67	Hydrogen production by photocatalytic water splitting usingÂpoly(allylamine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (Journal of Hydrogen Energy, 2016, 41, 17995-18004.	7.1	16
68	Thermal and morphological properties of highâ€density polyethylene/ethyleneâ€“vinyl acetate copolymer composites with polyhedral oligomeric silsesquioxane nanostructure. Polymer International, 2010, 59, 175-180.	3.1	15
69	Elucidating Anion Effect on Nanostructural Organization of Dicationic Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 14402-14409.	3.1	15
70	Boosting the performance of TiO2 nanotubes with ecofriendly AgIn5Se8 quantum dots for photoelectrochemical hydrogen generation. Journal of Power Sources, 2021, 506, 230165.	7.8	15
71	Nickel-containing di-charged imidazolium ligand with high crystalline organization. Interception and characterization of a transient carbene/cation species. Inorganica Chimica Acta, 2011, 370, 505-512.	2.4	14
72	Control of properties of nanocomposites bio-based collagen and cellulose nanocrystals. Cellulose, 2017, 24, 1731-1744.	4.9	13

#	Article	IF	Citations
73	Titanium dioxide nanotubes functionalized with Cratylia mollis seed lectin, Cramoll, enhanced osteoblast-like cells adhesion and proliferation. Materials Science and Engineering C, 2018, 90, 664-672.	7.3	13
74	Structural control of gold nanoparticles self-assemblies by layer-by-layer process. Nanoscale, 2011, 3, 1717.	5.6	12
75	Nanoengineering of Catalysts for Enhanced Hydrogen Production. Hydrogen, 2022, 3, 218-254.	3.4	11
76	Characterization and application of self-assembled thin films of polyelectrolytes/TiO2/CdSe for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 16568-16578.	7.1	10
77	Effect of high anodic polarization on the passive layer properties of superduplex stainless steel friction stir welds at different chloride electrolyte pH values and temperatures. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 710-721.	4.9	10
78	Synthesis, characterization and cytotoxicity of the Eugenia brejoensis essential oil inclusion complex with Î²-cyclodextrin. Journal of Drug Delivery Science and Technology, 2020, 60, 101876.	3.0	10
79	Preparation, characterization and application of polymeric thin films containing silver and copper nanoparticles with bactericidal activity. Journal of Environmental Chemical Engineering, 2020, 8, 103745.	6.7	10
80	Photocatalytic degradation of RB5 textile dye using immobilized TiO2 in brass structured systems. Catalysis Today, 2022, 383, 173-182.	4.4	10
81	Preparation, characterization and application of polyelectrolytes/TiO2/CdSe self-assembled films. Thin Solid Films, 2014, 551, 79-85.	1.8	9
82	Interaction of pharmaceutical ionic liquids with TiO2 in anatase and rutile phase. Journal of Molecular Liquids, 2018, 269, 912-919.	4.9	9
83	Improved Mechanochemical Fabrication of Copper(II) Oxide Nanoparticles with Low E-Factor. Efficient Catalytic Activity for Nitroarene Reduction in Aqueous Medium. ACS Sustainable Chemistry and Engineering, 2021, 9, 9661-9670.	6.7	9
84	Direct Laser Writing of Poly(furfuryl Alcohol)/Graphene Oxide Electrodes for Electrochemical Determination of Ascorbic Acid. ChemElectroChem, 2022, 9, .	3.4	9
85	Anti-Inflammatory Activity of Babassu Oil and Development of a Microemulsion System for Topical Delivery. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-14.	1.2	8
86	Influence of sucrose addition and acid treatment of silica-supported Co-Ru catalysts for Fischer-Tropsch synthesis. Fuel, 2018, 231, 157-164.	6.4	8
87	Effect of TiO₂ Nanoparticles on Polyaniline Films Electropolymerized at Different pH. Journal of Physical Chemistry C, 2016, 120, 14977-14983.	3.1	7
88	Syntheses and structural understanding of a Tiâ€“Ta alloy-based nanotubular oxide photocatalyst. CrystEngComm, 2018, 20, 5583-5591.	2.6	7
89	Synthesis and characterisation of [Cu₄In(PPh₃)₃SePh(Î¼-SePh)₃(Î¼₃-SePh)₃], and its application as a precursor of a sensitizer for a photocatalyst. New Journal of Chemistry, 2019, 43, 14196-14201.	2.8	7
90	Synthesis, characterization and antibiofilm/antimicrobial activity of nanoemulsions containing Tetragastris catuaba (Burseraceae) essential oil against disease-causing pathogens. Journal of Drug Delivery Science and Technology, 2022, 67, 102795.	3.0	7

#	Article	IF	Citations
91	Hydrogen photocatalytic production from the self-assembled films of PAH/PAA/TiO2 supported on bacterial cellulose membranes. International Journal of Hydrogen Energy, 2018, 43, 15794-15806.	7.1	6
92	Binary Transition Metal NiFeO _x and CoFeO _x Cocatalysts Boost the Photodriven Water Oxidation over Fe ₂ TiO ₅ Nanoparticles. ChemNanoMat, 2022, 8, .	2.8	6
93	Characterization of Films of Weak Polyelectrolytes Incorporated with Poly(vinyl-pyrrolidone)-Stabilized Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 8023-8028.	0.9	5
94	New strategy to obtain high surface area anatase nanotube/AuNP photocatalyst. Nanotechnology, 2019, 30, 065604.	2.6	5
95	Soapstone reinforced hydroxyapatite coatings for biomedical applications. Surface and Coatings Technology, 2020, 397, 126005.	4.8	5
96	Hydrogen production from aqueous glycerol using titanate nanotubes decorated with Au nanoparticles as photocatalysts. Anais Da Academia Brasileira De Ciencias, 2019, 91, .	0.8	5
97	Nanocrystalline Hydrous Zirconia from Zirconium Tungstate. Journal of the American Ceramic Society, 2011, 94, 2640-2645.	3.8	4
98	Engineering of CdTe Multicore in ZnO Nanoshell as a New Charge-Transfer Material. Journal of Physical Chemistry C, 2014, 118, 18372-18376.	3.1	4
99	Physicochemical characterization, released profile, and antinociceptive activity of diphenhydraminium ibuprofenate supported on mesoporous silica. Materials Science and Engineering C, 2020, 108, 110194.	7.3	4
100	Effect of heterocyclic nitrogen ionic liquid additives on the rate of backreaction in DSSCS: An electrochemical characterization. Journal of Science: Advanced Materials and Devices, 2021, 6, 483-487.	3.1	4
101	An investigation on the preparation of nanocrystalline hydrous zirconia from zirconium tungstate. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3
102	Electrochemical single-step obtention and characterization of a biomimetic TiO2-HA NTs covered by chitosan. Journal of Materials Research, 2019, 34, 1868-1878.	2.6	3
103	Perovskite CoTiO3/TiO2 hybrid nanotubes synthesis via pulsed anodization for photoelectrochemical application. Materials Letters, 2021, 284, 128975.	2.6	3
104	Structural, optical, and magnetic evaluation of Co-, Ni-, and Mn-modified multiferroic BiFeO3 ceramics. Ceramics International, 2021, 47, 24564-24573.	4.8	3
105	Solid, Solution and Gas Phase Interactions of an Imidazolium-Based Task-Specific Ionic Liquid Derived from Natural Kojic Acid. Journal of the Brazilian Chemical Society, 2014, , .	0.6	3
106	Microstructural orientation of isotactic polypropylene studied by computerized scanning eletron microscopy image analysis. Materials Research, 2001, 4, 103-106.	1.3	2
107	Self-assembly of polyhedral oligomeric silsesquioxane structures through ion exchange. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 243, 38-46.	3.5	2
108	Interrelation Among Morphology, Mechanical Properties and Oxidation Behavior of NbxAlyNz Thin Films. Materials Research, 2019, 22, .	1.3	2

#	Article	IF	Citations
109	TiO2 nanotubes decorated with Au nanoparticles for Photocatalytic Hydrogen Generation under UV-Visible and Visible Light Irradiations. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20200504.	0.8	2
110	The Deposition of a Lectin from Oreochromis niloticus on the Surface of Titanium Dioxide Nanotubes Improved the Cell Adhesion, Proliferation, and Osteogenic Activity of Osteoblast-like Cells. Biomolecules, 2021, 11, 1748.	4.0	2
111	Sunlight Irradiated Pyrite-Fenton System for Advanced Oxidative Treatment of Textile Dyes Mixture. Water, Air, and Soil Pollution, 2022, 233, .	2.4	2
112	Nanostructured Systems Obtention Using LbL Self-Assembly or the Cysteine-Assisted Adsorption Method and Their Application as a Water Splitting Single Catalyst. Journal of the Brazilian Chemical Society, 2019, , .	0.6	1
113	Factorial Design Applied for Evaluation of Effect of Interactions among Precursors on the Thermal Decomposition Temperature of Montmorillonite/Poly(Methyl Methacrylate) Nanocomposites. Journal of the Brazilian Chemical Society, 0, , .	0.6	0
114	DispersÃ£o e consolidaÃ§Ã£o de zircÃ´nia dopada com WOx a partir do tungstato de zircÃ´nio e trietanolamina em meio aquoso. Ceramica, 2017, 63, 11-21.	0.8	0
115	Photocatalytic Performance of Ta2O5/BiVO4 Heterojunction for Hydrogen Production and Methylene Blue Photodegradation. Journal of the Brazilian Chemical Society, 0, , .	0.6	0