Neftali Lenin Villarreal Carreo

List of Publications by Citations

116 papers	2,031 citations	26 h-index	40 g-index
124 ext. papers	2,289 ext. citations	3.7 avg, IF	4.56 L-index

#	Paper	IF	Citations
116	Superparamagnetism and magnetic properties of Ni nanoparticles embedded in SiO2. *Physical Review B*, **2002**, 66,	3.3	192
115	Kinetic and calorimetric study of the adsorption of dyes on mesoporous activated carbon prepared from coconut coir dust. *Journal of Colloid and Interface Science*, **2006**, 298, 515-22	9.3	122
114	Structure, morphology and functionality of acetylated and oxidised barley starches. *Food Chemistry*, **2015**, 168, 247-56	8.5	113
113	Films based on oxidized starch and cellulose from barley. *Carbohydrate Polymers*, **2015**, 133, 644-53	10.3	57
112	Synthesis of mesoporous Al2O3 macrospheres using the biopolymer chitosan as a template: A novel active catalyst system for CO2 reforming of methane. *Materials Letters*, **2005**, 59, 3963-3967	3.3	56
111	Preparation and evaluation of Co/Al2O3 catalysts in the production of hydrogen from thermo-catalytic decomposition of methane: Influence of operating conditions on catalyst performance. *Fuel*, **2008**, 87, 1698-1704	7.1	55
110	Photoluminescence of nanostructured PbTiO3 processed by high-energy mechanical milling. *Applied Physics Letters*, **2001**, 78, 2148-2150	3.4	52
109	Production of cellulose nanoparticles from blue agave waste treated with environmentally friendly processes. *Carbohydrate Polymers*, **2018**, 183, 294-302	10.3	51
108	Role of vanadium in Ni:Al2O3 catalysts for carbon dioxide reforming of methane. *Applied Catalysis A: General*, **2003**, 255, 211-220	5.1	51
107	Histological Evaluation of Bone Repair with Hydroxyapatite: A Systematic Review. *Calcified Tissue International*, **2017**, 101, 341-354	3.9	50
106	Development of MetalâSiO2 Nanocomposites in a Single-Step Process by the Polymerizable Complex Method. *Chemistry of Materials*, **2002**, 14, 3722-3729	9.6	47
105	Selective synthesis of vinyl ketone over SnO2 nanoparticle catalysts doped with rare earths. *Journal of Molecular Catalysis A*, **2004**, 207, 91-96		46
104	Magnetic dynamics of single-domain Ni nanoparticles. *Journal of Applied Physics*, **2003**, 93, 6531-6533	2.5	46
103	Direct decomposition of methane over Ni catalyst supported in magnesium aluminate. *Journal of Power Sources*, **2012**, 208, 409-414	8.9	45
102	Nanofiller loading level: Influence on selected properties of an adhesive resin. *Journal of Dentistry*, **2009**, 37, 331-5	4.8	42
101	Synthesis of hybrid mesoporous spheres using the chitosan as template. *Journal of Non-Crystalline Solids*, **2009**, 355, 860-866	3.9	41
100	Hydrogen Production from Ethanol Steam Reforming Over Ni/CeO2 Nanocomposite Catalysts. *Catalysis Letters*, **2007**, 119, 228-236	2.8	41

99	The influence of cation segregation on the methanol decomposition on nanostructured SnO2. *Sensors and Actuators B: Chemical*, **2002**, 86, 185-192	8.5	38
98	Methane conversion to hydrogen and nanotubes on Pt/Ni catalysts supported over spinel MgAl2O4. *Catalysis Today*, **2011**, 176, 465-469	5.3	34
97	Cellulose Nanocrystal Membranes as Excipients for Drug Delivery Systems. *Materials*, **2016**, 9,	3.5	33
96	Ni:CeO2 nanocomposite catalysts prepared by polymeric precursor method. *Applied Catalysis A: General*, **2006**, 310, 174-182	5.1	32
95	Influence of support on catalytic behavior of nickel catalysts in the steam reforming of ethanol for hydrogen production. *Environmental Chemistry Letters*, **2010**, 8, 79-85	13.3	31
94	Gadolinium-doped cerium oxide nanorods: novel active catalysts for ethanol reforming. *Journal of Materials Science*, **2010**, 45, 593-598	4.3	31
93	Temperature and reaction time effects on the structural properties of titanium dioxide nanopowders obtained via the hydrothermal method. *Brazilian Journal of Chemical Engineering*, **2011**, 28, 265-272	1.7	29
92	Synthesis of mesoporous silica with embedded nickel nanoparticles for catalyst applications. *Journal of Nanoscience and Nanotechnology*, **2002**, 2, 89-94	1.3	28
91	Synthesis of Ni nanoparticles in microporous and mesoporous Al and Mg oxides. *Microporous and Mesoporous Materials*, **2004**, 68, 151-157	5.3	26
90	Influence of Rare Earth Doping on the Structural and Catalytic Properties of Nanostructured Tin Oxide. *Nanoscale Research Letters*, **2008**, 3, 194-199	5	25
89	Niobium pentoxide and hydroxyapatite particle loaded electrospun polycaprolactone/gelatin membranes for bone tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110386	6	22
88	Preparation and evaluation of porous nickel-alumina spheres as catalyst in the production of hydrogen from decomposition of methane. *Journal of Molecular Catalysis A*, **2006**, 259, 328-335		22
87	Low temperature liquid phase catalytic oxidation of aniline promoted by niobium pentoxide micro and nanoparticles. *Catalysis Communications*, **2017**, 99, 135-140	3.2	21
86	Carbon fiber/epoxy composites: effect of zinc sulphide coated carbon nanotube on thermal and mechanical properties. *Polymer Bulletin*, **2018**, 75, 1619-1633	2.4	21
85	A novel synthetic route for magnesium aluminate (MgAl2O4) particles using metalâchitosan complexation method. *Chemical Engineering Journal*, **2012**, 193-194, 211-214	14.7	21
84	Magnetic properties of Ni:SiO2 nanocomposites synthesized by a modified solâgel method. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 621-623	2.6	21
83	From banana stem to conductive paper: A capacitive electrode and gas sensor. *Sensors and Actuators B: Chemical*, **2017**, 240, 459-467	8.5	19
82	Active carbon preparation from treads of tire waste for dye removal in waste water. *Journal of the Brazilian Chemical Society*, **2011**, 22, 2027-2035	1.5	19

81	MgAl2O4 spinel particles prepared by metalâchitosan complexation route and used as catalyst support for direct decomposition of methane. *Journal of Molecular Catalysis A*, **2013**, 370, 22-27		16
80	Cellulosic material obtained from Antarctic algae biomass. *Cellulose*, **2020**, 27, 113-126	5.5	16
79	Photoluminescence in amorphous TiO2-PbO systems. *Applied Physics A: Materials Science and Processing*, **2001**, 73, 567-569	2.6	15
78	Preparation, characterization, and biocompatibility of different metal oxide/PEG-based hybrid coating synthesized by solâgel dip coating method for surface modification of titanium. *Progress in Organic Coatings*, **2019**, 130, 206-213	4.8	15
77	Advances in Nanostructured Cellulose-based Biomaterials. *SpringerBriefs in Applied Sciences and Technology*, **2017**,	0.4	14
76	Comparing different methods to fix and to dehydrate cells on alginate hydrogel scaffolds using scanning electron microscopy. *Microscopy Research and Technique*, **2015**, 78, 553-61	2.8	14
75	Interfacial photoluminescence emission properties of core/shell Al2O3/ZrO2. *CrystEngComm*, **2012**, 14, 393-396	3.3	13
74	Nickelâcarbon nanocomposites prepared using castor oil as precursor: A novel catalyst for ethanol steam reforming. *Journal of Power Sources*, **2009**, 188, 527-531	8.9	13
73	Amorphization and grain size effect on milled PbTiO3 studied by Raman scattering and visible photoluminescence emission. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 787-789	2.6	13
72	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. *Nanoscale*, **2015**, 7, 17441-9	7.7	11
71	Feasible and Clean Solid-Phase Synthesis of LiNbO3by Microwave-Induced Combustion and Its Application as Catalyst for Low-Temperature Aniline Oxidation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 1680-1691	8.3	11
70	Nano-/microfiber scaffold for tissue engineering: physical and biological properties. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3051-8	5.4	11
69	Preparation, modification, and characterization of alginate hydrogel with nano-/microfibers: a new perspective for tissue engineering. *BioMed Research International*, **2013**, 2013, 307602	3	11
68	Tunable graphene oxide inter-sheet distance to obtain graphene oxideâsilver nanoparticle hybrids. *New Journal of Chemistry*, **2019**, 43, 1285-1290	3.6	10
67	Fast and simultaneous doping of SrCaInO:(xEu, yTm, zTb) superstructure by ultrasonic spray pyrolysis. *Ultrasonics Sonochemistry*, **2019**, 56, 14-24	8.9	10
66	Electrochemical supercapacitors based on 3D nanocomposites of reduced graphene oxide/carbon nanotube and ZnS. *Journal of Alloys and Compounds*, **2020**, 836, 155408	5.7	10
65	Síntese, caracterizaçã e estudo das propriedades catalíticas e magníticas de nanopartículas de Ni dispersas em matriz mesoporosa de SiO2. *Quimica Nova*, **2002**, 25, 935-942	1.6	10
64	YbF3/SiO2 Fillers as Radiopacifiers in a Dental Adhesive Resin. *Nano-Micro Letters*, **2012**, 4, 189-196	19.5	9

63	Physical and Biological Properties of a High-Plasticity Tricalcium Silicate Cement. *BioMed Research International*, **2018**, 2018, 8063262	3	9
62	Evaluation of hair fiber hydration by differential scanning calorimetry, gas chromatography, and sensory analysis. *Journal of Cosmetic Science*, **2003**, 54, 527-35	0.7	9
61	Microwave-assisted hydrothermal synthesis and electrochemical characterization of niobium pentoxide/carbon nanotubes composites. *Journal of Materials Research*, **2019**, 34, 592-599	2.5	8
60	Antimicrobial activity from polymeric composites-based polydimethylsiloxane/TiO2/GO: evaluation of filler synthesis and surface morphology. *Polymer Bulletin*, **2017**, 74, 2379-2390	2.4	8
59	Influence of the NiO nanoparticles on the ionic conductivity of the agar-based electrolyte. *Polimeros*, **2014**, 24, 8-12	1.6	8
58	Water Content in Self-Etching Primers Affects Their Aggressiveness and Strength of Bonding to Ground Enamel **2010**, 86, 939-952		8
57	Obtenção e caracterização de carbono ativado a partir de resíduos provenientes de bandas de rodagem. *Polimeros*, **2007**, 17, 329-333	1.6	8
56	Oxidation of terpenic alcohols with hydrogen peroxide promoted by Nb2O5 obtained by microwave-assisted hydrothermal method. *Molecular Catalysis*, **2020**, 489, 110941	3.3	8
55	Evaluation and characterization of algal biomass applied to the development of fingermarks on glass surfaces. *Australian Journal of Forensic Sciences*, **2021**, 53, 337-346	1.1	8
54	Radiopaque dental adhesive with addition of niobium pentoxide nanoparticles. *Polymer Bulletin*, **2018**, 75, 2301-2314	2.4	7
53	Synthesis, characterization and catalytic properties of nanocrystaline Y2O3-coated TiO2 in the ethanol dehydration reaction. *Materials Research*, **2012**, 15, 285-290	1.5	7
52	Fotoluminescência e adsorção de CO2 em nanopartículas de CaTiO3 dopadas com lantânio. *Quimica Nova*, **2004**, 27, 862-865	1.6	7
51	Application of Ni:SiO2 Nanocomposite to Control the Carbon Deposition on the Carbon Dioxide Reforming of Methane. *Journal of Nanoscience and Nanotechnology*, **2002**, 2, 491-494	1.3	7
50	Physicochemical properties of nanocomposite films made from sorghum-oxidized starch and nanoclay. *Starch/Staerke*, **2017**, 69, 1700079	2.3	6
49	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. *Journal of Nanomaterials*, **2017**, 2017, 1-10	3.2	6
48	Effect of shelf-life simulation on the bond strength of self-etch adhesive systems to dentin. *Applied Adhesion Science*, **2014**, 2,	1.4	6
47	Carbon-coated SnO2 nanobelts and nanoparticles by single catalytic step. *Journal of Nanoparticle Research*, **2009**, 11, 955-963	2.3	6
46	Synthesis of titania/carbon nanocomposites by polymeric precursor method. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1897-1904	3.9	6

45	Estudo microestrutural do catalisador Ni/gama-Al2O3: efeito da adi de CeO2 na reforma do metano com di ido de carbono. *Quimica Nova*, **2003**, 26, 648-654	1.6	6
44	Influence of Nb2O5 crystal structure on photocatalytic efficiency. *Chemical Physics Letters*, **2021**, 764, 138271	2.5	6
43	Photoactive thin films of polycaprolactam doped with europium (III) complex using phenylalanine as ligand. *Applied Surface Science*, **2011**, 258, 1437-1442	6.7	5
42	Vanadium effect over Al2O3-supported Ni catalysts for valorization of glycerol. *Fuel Processing Technology*, **2021**, 216, 106773	7.2	5
41	Fabrication of electrospun poly(lactic acid) nanoporous membrane loaded with niobium pentoxide nanoparticles as a potential scaffold for biomaterial applications. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 1559-1567	3.5	5
40	Advances in Nanostructured Cellulose-based Biomaterials. *SpringerBriefs in Applied Sciences and Technology*, **2017**, 1-32	0.4	4
39	SnO2 nanoparticles functionalized in amorphous silica and glass. *Powder Technology*, **2009**, 195, 91-95	5.2	4
38	Gas-phase selective conjugate addition of methanol to acetone for methyl vinyl ketone over SnO2 nanoparticle catalysts. *Journal of the Brazilian Chemical Society*, **2005**, 16, 607-613	1.5	4
37	Electrochemical Cathodic Polarization, a Simplified Method That Can Modified and Increase the Biological Activity of Titanium Surfaces: A Systematic Review. *PLoS ONE*, **2016**, 11, e0155231	3.7	4
36	Application of Al2O3/AlNbO4 in the oxidation of aniline to azoxybenzene. *Chemical Papers*, **2020**, 74, 543-553	1.9	4
35	Renewable supercapacitors based on cellulose/carbon nanotubes/[Bmim] [NTf2] ionic liquid. *MRS Communications*, **2019**, 9, 726-729	2.7	3
34	Flexible cellulose-carbon nanotube paper substrate decorated with PZT: sensor properties. *MRS Advances*, **2018**, 3, 31-36	0.7	3
33	Preparation, characterization and catalytic properties of titanium oxide nanoparticles coated with aluminum oxide. *Reaction Kinetics, Mechanisms and Catalysis*, **2011**, 102, 75-83	1.6	3
32	Catalyst nanocomposites templates of carbon nanoribbons, nanospheres and nanotubes. *Materials Letters*, **2007**, 61, 3341-3344	3.3	3
31	Processing effects of nanometric rare earth-doped tin oxides on the synthesis of methyl vinyl ketone. *Reaction Kinetics and Catalysis Letters*, **2004**, 81, 211-217		3
30	Mechanical characterization of HDPE reinforced with cellulose from rice husk biomass. *Polimeros*, **2019**, 29,	1.6	3
29	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. *Journal of Bioactive and Compatible Polymers*, **2020**, 35, 469-478	2	3
28	Facile preparation of a novel biomass-derived H3PO4 and Mn(NOâ activated carbon from citrus bergamia peels for high-performance supercapacitors. *Materials Today Communications*, **2021**, 26, 101779	3.5	3

27	Monofunctional curcumin analogues: evaluation of green and safe developers of latent fingerprints. *Chemical Papers*, **2021**, 75, 3119-3129	1.9	3
26	Electrochemical Biosensor Based on Laser-Induced Graphene for COVID-19 Diagnosing: Rapid and Low-Cost Detection of SARS-CoV-2 Biomarker Antibodies. *Surfaces*, **2022**, 5, 187-201	2.9	3
25	Flexible composite via rapid titania coating by microwave-assisted hydrothermal synthesis. *Bulletin of Materials Science*, **2017**, 40, 499-504	1.7	2
24	Preparation of glutamine films on silicon substrates. *Surface and Interface Analysis*, **2008**, 40, 899-905	1.5	2
23	Synthesis of metal-oxide matrix with embedded nickel nanoparticles by a bottom-up chemical process. *Journal of Nanoscience and Nanotechnology*, **2003**, 3, 516-20	1.3	2
22	Photoluminescence in amorphous (PbLa)TiO3 thin films deposited on different substrates. *Journal of Luminescence*, **2002**, 99, 85-90	3.8	2
21	Síntese e caracterização de nanocompósitos Ni: SiO2 processados na forma de filmes finos. *Quimica Nova*, **2005**, 28, 842-846	1.6	2
20	Peering into the Formation of Template-Free Hierarchical Flowerlike Nanostructures of SrTiO. *ACS Omega*, **2020**, 5, 33007-33016	3.9	2
19	Electrospun Starch Nanofibers as a Delivery Carrier for Carvacrol as Anti-Glioma Agent. *Starch/Staerke*,2100115	2.3	2
18	Compósitos cimentícios reforçados com fibras de eucalipto puras e tratadas com tetraetilortossilicato (TEOS 98%). *Ambiente Construído*, **2015**, 15, 47-55	0.4	1
17	YbF3/SiO2 Fillers as Radiopacifiers in a Dental Adhesive Resin **2012**, 4, 189		1
16	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 849-854	4.1	1
15	A Flexible Electrochemical Biosensor Based on NdNiO3 Nanotubes for Ascorbic Acid Detection. *ACS Applied Nano Materials*, **2022**, 5, 3394-3405	5.6	1
14	Influence of Nb2O5 grown on SrTiO3 nanoseeds in the catalytic oxidation of thioanisole. *Materials Chemistry and Physics*, **2022**, 278, 125591	4.4	0
13	Synthesis of LiNbO3 nanocrystals by microwave-assisted hydrothermal method: formation mechanism and application to hydrogen evolution reaction. *Chemical Papers*, **2021**, 75, 3807-3815	1.9	0
12	Preparation of fluorescent bisamides: A new class of fingermarks developers. *Chemical Data Collections*, **2021**, 33, 100680	2.1	0
11	Fluorescent phenylthiazoles: Application as latent fingermark and their cytotoxicity against NOK-SI cell line. *Chemical Data Collections*, **2021**, 33, 100700	2.1	0
10	Nano and Micro Ceramic Membranes from Degradable Templates. *Materials Research*, **2016**, 19, 1017-1025	2.5	0

9	In vitro efficacy of commercial and experimental proteolytic enzyme-based whitening dentifrices on enamel whitening and superficial roughness. *Journal of Esthetic and Restorative Dentistry*, **2021**, 33, 849-855	3.5	0
8	Effect of carbon nanotubes functionalization on properties of their nanocomposites with polycarbonate/poly(acrylonitrile-butadiene-styrene) matrix. *Journal of Applied Polymer Science*, **2021**, 138, 50471	2.9	0
7	Novel application of sub-Antarctic macroalgae as zinc oxide nanoparticles biosynthesizers. *Materials Letters*, **2022**, 320, 132341	3.3	0
6	Dataset on cellulose nanoparticles from blue agave bagasse and blue agave leaves. *Data in Brief*, **2018**, 18, 150-155	1.2	
5	Rare earth-doped lead titanate zirconate grown on carbon fibers by microwave-assisted hydrothermal synthesis. *Journal of Composite Materials*, **2019**, 53, 373-382	2.7	
4	Cobalt magnetic nanoparticles embedded in carbon matrix: biofunctional validation. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	
3	leaves: properties and potentialities for the development of new products. *Natural Product Research*, **2021**, 1-12	2.3	
2	Chitosan in Eucalyptus grandis Pyroligneous Liquor for Agricultural Application: Physicochemical and Structural Characterization During Storage. *Journal of Polymers and the Environment*, **2021**, 29, 1591-1599	4.5	
1	Development of xanthan gum-based solid polymer electrolytes with addition of expanded graphite nanosheets. *Journal of Applied Polymer Science*,52400	2.9	