

Neftali Lenin Villarreal Carreño

List of Publications by Year in descending order

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123
papers

2,610
citations

201674

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all docs

124
docs citations

124
times ranked

3859
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun Starch Nanofibers as a Delivery Carrier for Carvacrol as Anti-Glioma Agent. Starch/Staerke, 2022, 74, 2100115.	2.1	7
2	<i>Pereskia aculeata</i> leaves: properties and potentialities for the development of new products. Natural Product Research, 2022, 36, 4821-4832.	1.8	3
3	Influence of Nb ₂ O ₅ grown on SrTiO ₃ nanoseeds in the catalytic oxidation of thioanisole. Materials Chemistry and Physics, 2022, 278, 125591.	4.0	6
4	Effects of niobium pentoxide nanoparticles on the tribological properties of electrodeposited ZnNi coatings. Surface Topography: Metrology and Properties, 2022, 10, 024003.	1.6	4
5	An easy to assemble PDMS/CNTs/PANI flexible supercapacitor with high energy-to-power density. Nanoscale, 2022, 14, 2266-2276.	5.6	23
6	A Flexible Electrochemical Biosensor Based on NdNiO ₃ Nanotubes for Ascorbic Acid Detection. ACS Applied Nano Materials, 2022, 5, 3394-3405.	5.0	12
7	Development of xanthan gum-based solid polymer electrolytes with addition of expanded graphite nanosheets. Journal of Applied Polymer Science, 2022, 139, .	2.6	2
8	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.	2.3	15
9	Novel application of sub-Antarctic macroalgae as zinc oxide nanoparticles biosynthesizers. Materials Letters, 2022, 320, 132341.	2.6	2
10	Direct Laser Writing of Poly(furfuryl Alcohol)/Graphene Oxide Electrodes for Electrochemical Determination of Ascorbic Acid. ChemElectroChem, 2022, 9, .	3.4	9
11	Evaluation and characterization of algal biomass applied to the development of fingermarks on glass surfaces. Australian Journal of Forensic Sciences, 2021, 53, 337-346.	1.2	13
12	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.	3.8	11
13	Influence of Nb ₂ O ₅ crystal structure on photocatalytic efficiency. Chemical Physics Letters, 2021, 764, 138271.	2.6	27
14	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.	5.0	2
15	Facile preparation of a novel biomass-derived H ₃ PO ₄ and Mn(NO ₃) ₂ , activated carbon from citrus bergamia peels for high-performance supercapacitors. Materials Today Communications, 2021, 26, 101779.	1.9	12
16	Monofunctional curcumin analogues: evaluation of green and safe developers of latent fingerprints. Chemical Papers, 2021, 75, 3119-3129.	2.2	9
17	Synthesis of LiNbO ₃ nanocrystals by microwave-assisted hydrothermal method: formation mechanism and application to hydrogen evolution reaction. Chemical Papers, 2021, 75, 3807-3815.	2.2	8
18	Preparation of fluorescent bisamides: A new class of fingermarks developers. Chemical Data Collections, 2021, 33, 100680.	2.3	3

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19	Fluorescent phenylthiazoles: Application as latent fingermark and their cytotoxicity against NOK-SI cell line. Chemical Data Collections, 2021, 33, 100700.	2.3	2
20	Vanadium effect over γ -Al ₂ O ₃ -supported Ni catalysts for valorization of glycerol. Fuel Processing Technology, 2021, 216, 106773.	7.2	8
21	Effect of carbon nanotubes functionalization on properties of their nanocomposites with polycarbonate/poly(acrylonitrile- <i>butadiene</i> -styrene) matrix. Journal of Applied Polymer Science, 2021, 138, 50471.	2.6	2
22	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. Journal of Thermal Analysis and Calorimetry, 2020, 139, 849-854.	3.6	2
23	Cellulosic material obtained from Antarctic algae biomass. Cellulose, 2020, 27, 113-126.	4.9	25
24	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.	3.4	10
25	Application of Al ₂ O ₃ /AlNbO ₄ in the oxidation of aniline to azoxybenzene. Chemical Papers, 2020, 74, 543-553.	2.2	6
26	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. Journal of Bioactive and Compatible Polymers, 2020, 35, 469-478.	2.1	4
27	Peering into the Formation of Template-Free Hierarchical Flowerlike Nanostructures of SrTiO ₃ . ACS Omega, 2020, 5, 33007-33016.	3.5	5
28	Electrochemical supercapacitors based on 3D nanocomposites of reduced graphene oxide/carbon nanotube and ZnS. Journal of Alloys and Compounds, 2020, 836, 155408.	5.5	21
29	Oxidation of terpenic alcohols with hydrogen peroxide promoted by Nb ₂ O ₅ obtained by microwave-assisted hydrothermal method. Molecular Catalysis, 2020, 489, 110941.	2.0	13
30	Rare earth-doped lead titanate zirconate grown on carbon fibers by microwave-assisted hydrothermal synthesis. Journal of Composite Materials, 2019, 53, 373-382.	2.4	0
31	Niobium pentoxide and hydroxyapatite particle loaded electrospun polycaprolactone/gelatin membranes for bone tissue engineering. Colloids and Surfaces B: Biointerfaces, 2019, 182, 110386.	5.0	34
32	Microwave-assisted hydrothermal synthesis and electrochemical characterization of niobium pentoxide/carbon nanotubes composites. Journal of Materials Research, 2019, 34, 592-599.	2.6	11
33	Tunable graphene oxide inter-sheet distance to obtain graphene oxide-silver nanoparticle hybrids. New Journal of Chemistry, 2019, 43, 1285-1290.	2.8	11
34	Renewable supercapacitors based on cellulose/carbon nanotubes/[Bmim][NTf ₂] ionic liquid. MRS Communications, 2019, 9, 726-729.	1.8	6
35	Fast and simultaneous doping of Sr _{0.9} Ca _{0.1} In ₂ O ₄ :(xEu ³⁺ , yTm ³⁺ , zTb ³⁺) superstructure by ultrasonic spray pyrolysis. Ultrasonics Sonochemistry, 2019, 56, 14-24.	8.2	11
36	Preparation, characterization, and biocompatibility of different metal oxide/PEG-based hybrid coating synthesized by sol-gel dip coating method for surface modification of titanium. Progress in Organic Coatings, 2019, 130, 206-213.	3.9	23

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37	Mechanical characterization of HDPE reinforced with cellulose from rice husk biomass. Polimeros, 2019, 29, .	0.7	7
38	A Simple and Complete Supercapacitor Characterization System Using a Programmable Sourcemeeter. Orbital, 2019, 11, .	0.3	0
39	Dataset on cellulose nanoparticles from blue agave bagasse and blue agave leaves. Data in Brief, 2018, 18, 150-155.	1.0	0
40	Flexible cellulose-carbon nanotube paper substrate decorated with PZT: sensor properties. MRS Advances, 2018, 3, 31-36.	0.9	3
41	Feasible and Clean Solid-Phase Synthesis of LiNbO_3 by Microwave-Induced Combustion and Its Application as Catalyst for Low-Temperature Aniline Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 1680-1691.	6.7	15
42	Production of cellulose nanoparticles from blue agave waste treated with environmentally friendly processes. Carbohydrate Polymers, 2018, 183, 294-302.	10.2	63
43	Carbon fiber/epoxy composites: effect of zinc sulphide coated carbon nanotube on thermal and mechanical properties. Polymer Bulletin, 2018, 75, 1619-1633.	3.3	26
44	Radiopaque dental adhesive with addition of niobium pentoxide nanoparticles. Polymer Bulletin, 2018, 75, 2301-2314.	3.3	10
45	Obtenção de compósito com matriz de acetato de celulose e partículas de prata para aplicações antimicrobianas. Revista Materia, 2018, 23, .	0.2	0
46	Physical and Biological Properties of a High-Plasticity Tricalcium Silicate Cement. BioMed Research International, 2018, 2018, 1-6.	1.9	17
47	Advances in Nanostructured Cellulose-based Biomaterials. SpringerBriefs in Applied Sciences and Technology, 2017, , .	0.4	16
48	Low temperature liquid phase catalytic oxidation of aniline promoted by niobium pentoxide micro and nanoparticles. Catalysis Communications, 2017, 99, 135-140.	3.3	25
49	Physicochemical properties of nanocomposite films made from sorghum oxidized starch and nanoclay. Starch/Staerke, 2017, 69, 1700079.	2.1	6
50	Histological Evaluation of Bone Repair with Hydroxyapatite: A Systematic Review. Calcified Tissue International, 2017, 101, 341-354.	3.1	77
51	Flexible composite via rapid titania coating by microwave-assisted hydrothermal synthesis. Bulletin of Materials Science, 2017, 40, 499-504.	1.7	3
52	Antimicrobial activity from polymeric composites-based polydimethylsiloxane/TiO ₂ /GO: evaluation of filler synthesis and surface morphology. Polymer Bulletin, 2017, 74, 2379-2390.	3.3	11
53	From banana stem to conductive paper: A capacitive electrode and gas sensor. Sensors and Actuators B: Chemical, 2017, 240, 459-467.	7.8	25
54	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. Journal of Nanomaterials, 2017, 2017, 1-10.	2.7	9

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55	Nano and Micro Ceramic Membranes from Degradable Templates. Materials Research, 2016, 19, 1017-1025.	1.3	1
56	Cellulose Nanocrystal Membranes as Excipients for Drug Delivery Systems. Materials, 2016, 9, 1002.	2.9	43
57	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.	2.5	5
58	ZrTiO ₄ Nanowire Growth Using Membrane-assisted Pechini Route. Orbital, 2016, 1, .	0.3	1
59	Comparing different methods to fix and to dehydrate cells on alginate hydrogel scaffolds using scanning electron microscopy. Microscopy Research and Technique, 2015, 78, 553-561.	2.2	24
60	Compósitos cimentícios reforçados com fibras de eucalipto puras e tratadas com tetraetilortossilicato (TEOS 98%). Ambiente Construindo, 2015, 15, 47-55.	0.4	3
61	Films based on oxidized starch and cellulose from barley. Carbohydrate Polymers, 2015, 133, 644-653.	10.2	80
62	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. Nanoscale, 2015, 7, 17441-17449.	5.6	14
63	Structure, morphology and functionality of acetylated and oxidised barley starches. Food Chemistry, 2015, 168, 247-256.	8.2	156
64	Effect of shelf-life simulation on the bond strength of self-etch adhesive systems to dentin. Applied Adhesion Science, 2014, 2, .	1.5	10
65	Influence of the NiO nanoparticles on the ionic conductivity of the agar-based electrolyte. Polimeros, 2014, 24, 8-12.	0.7	10
66	MgAl ₂ O ₄ spinel particles prepared by metal-chitosan complexation route and used as catalyst support for direct decomposition of methane. Journal of Molecular Catalysis A, 2013, 370, 22-27.	4.8	19
67	Preparation, Modification, and Characterization of Alginate Hydrogel with Nano-/Microfibers: A New Perspective for Tissue Engineering. BioMed Research International, 2013, 2013, 1-6.	1.9	12
68	Cobalt magnetic nanoparticles embedded in carbon matrix: biofunctional validation. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	0
69	YbF ₃ /SiO ₂ Fillers as Radiopacifiers in a Dental Adhesive Resin. Nano-Micro Letters, 2012, 4, 189-196.	27.0	11
70	Synthesis, characterization and catalytic properties of nanocrystalline Y ₂ O ₃ -coated TiO ₂ in the ethanol dehydration reaction. Materials Research, 2012, 15, 285-290.	1.3	7
71	Nano-microfiber scaffold for tissue engineering: Physical and biological properties. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3051-3058.	4.0	12
72	Interfacial photoluminescence emission properties of core/shell Al ₂ O ₃ /ZrO ₂ . CrystEngComm, 2012, 14, 393-396.	2.6	14

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73	A novel synthetic route for magnesium aluminate (MgAl ₂ O ₄) particles using metal-chitosan complexation method. Chemical Engineering Journal, 2012, 193-194, 211-214.	12.7	25
74	Direct decomposition of methane over Ni catalyst supported in magnesium aluminate. Journal of Power Sources, 2012, 208, 409-414.	7.8	50
75	YbF ₃ /SiO ₂ Fillers as Radiopacifiers in a Dental Adhesive Resin. , 2012, 4, 189.		1
76	Photoactive thin films of polycaprolactam doped with europium (III) complex using phenylalanine as ligand. Applied Surface Science, 2011, 258, 1437-1442.	6.1	7
77	Active carbon preparation from treads of tire waste for dye removal in waste water. Journal of the Brazilian Chemical Society, 2011, 22, 2027-2035.	0.6	24
78	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.	1.3	38
79	Methane conversion to hydrogen and nanotubes on Pt/Ni catalysts supported over spinel MgAl ₂ O ₄ . Catalysis Today, 2011, 176, 465-469.	4.4	41
80	Preparation, characterization and catalytic properties of titanium oxide nanoparticles coated with aluminum oxide. Reaction Kinetics, Mechanisms and Catalysis, 2011, 102, 75-83.	1.7	4
81	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.	16.2	37
82	Gadolinium-doped cerium oxide nanorods: novel active catalysts for ethanol reforming. Journal of Materials Science, 2010, 45, 593-598.	3.7	32
83	Water Content in Self-Etching Primers Affects Their Aggressiveness and Strength of Bonding to Ground Enamel. Journal of Adhesion, 2010, 86, 939-952.	3.0	11
84	SnO ₂ nanoparticles functionalized in amorphous silica and glass. Powder Technology, 2009, 195, 91-95.	4.2	4
85	Nickel-carbon nanocomposites prepared using castor oil as precursor: A novel catalyst for ethanol steam reforming. Journal of Power Sources, 2009, 188, 527-531.	7.8	14
86	Carbon-coated SnO ₂ nanobelts and nanoparticles by single catalytic step. Journal of Nanoparticle Research, 2009, 11, 955-963.	1.9	6
87	Synthesis of hybrid mesoporous spheres using the chitosan as template. Journal of Non-Crystalline Solids, 2009, 355, 860-866.	3.1	45
88	Nanofiller loading level: Influence on selected properties of an adhesive resin. Journal of Dentistry, 2009, 37, 331-335.	4.1	49
89	Influence of Rare Earth Doping on the Structural and Catalytic Properties of Nanostructured Tin Oxide. Nanoscale Research Letters, 2008, 3, .	5.7	30
90	Preparation of glutamine films on silicon substrates. Surface and Interface Analysis, 2008, 40, 899-905.	1.8	2

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91	Synthesis of titania/carbon nanocomposites by polymeric precursor method. Journal of Physics and Chemistry of Solids, 2008, 69, 1897-1904.	4.0	6
92	Preparation and evaluation of Co/Al ₂ O ₃ catalysts in the production of hydrogen from thermo-catalytic decomposition of methane: Influence of operating conditions on catalyst performance. Fuel, 2008, 87, 1698-1704.	6.4	63
93	Nanocompósitos cerâmicos a partir do processo de moagem mecânica de alta energia. Química Nova, 2008, 31, 962-968.	0.3	0
94	Obtenção e caracterização de carbono ativado a partir de resíduos provenientes de bandas de rodagem. Polímeros, 2007, 17, 329-333.	0.7	8
95	Catalyst nanocomposites templates of carbon nanoribbons, nanospheres and nanotubes. Materials Letters, 2007, 61, 3341-3344.	2.6	3
96	Hydrogen Production from Ethanol Steam Reforming Over Ni/CeO ₂ Nanocomposite Catalysts. Catalysis Letters, 2007, 119, 228-236.	2.6	44
97	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.	4.8	24
98	Ni:CeO ₂ nanocomposite catalysts prepared by polymeric precursor method. Applied Catalysis A: General, 2006, 310, 174-182.	4.3	34
99	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, 515-522.	9.4	151
100	Synthesis of mesoporous Al ₂ O ₃ macrospheres using the biopolymer chitosan as a template: A novel active catalyst system for CO ₂ reforming of methane. Materials Letters, 2005, 59, 3963-3967.	2.6	61
101	Síntese e caracterização de nanocompósitos Ni: SiO ₂ processados na forma de filmes finos. Química Nova, 2005, 28, 842-846.	0.3	2
102	Gas-phase selective conjugate addition of methanol to acetone for methyl vinyl ketone over SnO ₂ nanoparticle catalysts. Journal of the Brazilian Chemical Society, 2005, 16, 607-613.	0.6	4
103	Fotoluminescência e adsorção de CO ₂ em nanopartículas de CaTiO ₃ dopadas com lantânio. Química Nova, 2004, 27, 862-865.	0.3	10
104	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.	0.6	3
105	Selective synthesis of vinyl ketone over SnO ₂ nanoparticle catalysts doped with rare earths. Journal of Molecular Catalysis A, 2004, 207, 91-96.	4.8	52
106	Synthesis of Ni nanoparticles in microporous and mesoporous Al and Mg oxides. Microporous and Mesoporous Materials, 2004, 68, 151-157.	4.4	27
107	Magnetic properties of Ni:SiO ₂ nanocomposites synthesized by a modified sol-gel method. Applied Physics A: Materials Science and Processing, 2003, 76, 621-623.	2.3	23
108	Role of vanadium in Ni:Al ₂ O ₃ catalysts for carbon dioxide reforming of methane. Applied Catalysis A: General, 2003, 255, 211-220.	4.3	56

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109	Magnetic dynamics of single-domain Ni nanoparticles. Journal of Applied Physics, 2003, 93, 6531-6533.	2.5	48
110	Synthesis of Metal-Oxide Matrix with Embedded Nickel Nanoparticles by a Bottom-up Chemical Process. Journal of Nanoscience and Nanotechnology, 2003, 3, 516-520.	0.9	2
111	Estudo microestrutural do catalisador Ni/gama-Al ₂ O ₃ : efeito da adi��o de CeO ₂ na reforma do metano com di��xido de carbono. Quimica Nova, 2003, 26, 648-654.	0.3	7
112	Evaluation of hair fiber hydration by differential scanning calorimetry, gas chromatography, and sensory analysis. Journal of Cosmetic Science, 2003, 54, 527-35.	0.1	10
113	Superparamagnetism and magnetic properties of Ni nanoparticles embedded in SiO ₂ . Physical Review B, 2002, 66, .	3.2	210
114	Synthesis of Mesoporous Silica with Embedded Nickel Nanoparticles for Catalyst Applications. Journal of Nanoscience and Nanotechnology, 2002, 2, 89-94.	0.9	30
115	Application of Ni:SiO ₂ Nanocomposite to Control the Carbon Deposition on the Carbon Dioxide Reforming of Methane. Journal of Nanoscience and Nanotechnology, 2002, 2, 491-494.	0.9	7
116	Development of Metal��SiO ₂ Nanocomposites in a Single-Step Process by the Polymerizable Complex Method. Chemistry of Materials, 2002, 14, 3722-3729.	6.7	53
117	S��ntese, caracteriza��o e estudo das propriedades catal��ticas e magn��ticas de nanop��culas de Ni dispersas em matriz mesoporosa de SiO ₂ . Quimica Nova, 2002, 25, 935-942.	0.3	14
118	Amorphization and grain size effect on milled PbTiO ₃ studied by Raman scattering and visible photoluminescence emission. Applied Physics A: Materials Science and Processing, 2002, 74, 787-789.	2.3	13
119	The influence of cation segregation on the methanol decomposition on nanostructured SnO ₂ . Sensors and Actuators B: Chemical, 2002, 86, 185-192.	7.8	43
120	Photoluminescence in amorphous (PbLa)TiO ₃ thin films deposited on different substrates. Journal of Luminescence, 2002, 99, 85-90.	3.1	2
121	Photoluminescence in amorphous TiO ₂ -PbO systems. Applied Physics A: Materials Science and Processing, 2001, 73, 567-569.	2.3	17
122	Photoluminescence of nanostructured PbTiO ₃ processed by high-energy mechanical milling. Applied Physics Letters, 2001, 78, 2148-2150.	3.3	57
123	Hydroxyapatite Synthesis and Covering of Titanium Surfaces by Dip-Coating Method. Brazilian Archives of Biology and Technology, 0, 64, .	0.5	3