

# Neftali Lenin Villarreal Carreo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Influence of Nb <sub>2</sub> O <sub>5</sub> grown on SrTiO <sub>3</sub> nanoseeds in the catalytic oxidation of thioanisole. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 278, 125591	4.4	0
115	A Flexible Electrochemical Biosensor Based on NdNiO <sub>3</sub> Nanotubes for Ascorbic Acid Detection. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 3394-3405	5.6	1
114	Electrochemical Biosensor Based on Laser-Induced Graphene for COVID-19 Diagnosing: Rapid and Low-Cost Detection of SARS-CoV-2 Biomarker Antibodies. <i>Surfaces</i> , <b>2022</b> , 5, 187-201	2.9	3
113	Novel application of sub-Antarctic macroalgae as zinc oxide nanoparticles biosynthesizers. <i>Materials Letters</i> , <b>2022</b> , 320, 132341	3.3	0
112	leaves: properties and potentialities for the development of new products. <i>Natural Product Research</i> , <b>2021</b> , 1-12	2.3	
111	Synthesis of LiNbO <sub>3</sub> nanocrystals by microwave-assisted hydrothermal method: formation mechanism and application to hydrogen evolution reaction. <i>Chemical Papers</i> , <b>2021</b> , 75, 3807-3815	1.9	0
110	Preparation of fluorescent bisamides: A new class of fingerprints developers. <i>Chemical Data Collections</i> , <b>2021</b> , 33, 100680	2.1	0
109	Fluorescent phenylthiazoles: Application as latent fingerprint and their cytotoxicity against NOK-SI cell line. <i>Chemical Data Collections</i> , <b>2021</b> , 33, 100700	2.1	0
108	Vanadium effect over Al <sub>2</sub> O <sub>3</sub> -supported Ni catalysts for valorization of glycerol. <i>Fuel Processing Technology</i> , <b>2021</b> , 216, 106773	7.2	5
107	Evaluation and characterization of algal biomass applied to the development of fingerprints on glass surfaces. <i>Australian Journal of Forensic Sciences</i> , <b>2021</b> , 53, 337-346	1.1	8
106	In vitro efficacy of commercial and experimental proteolytic enzyme-based whitening dentifrices on enamel whitening and superficial roughness. <i>Journal of Esthetic and Restorative Dentistry</i> , <b>2021</b> , 33, 849-855	3.5	0
105	Influence of Nb <sub>2</sub> O <sub>5</sub> crystal structure on photocatalytic efficiency. <i>Chemical Physics Letters</i> , <b>2021</b> , 764, 138271	2.5	6
104	Chitosan in Eucalyptus grandis Pyrolytic Liquor for Agricultural Application: Physicochemical and Structural Characterization During Storage. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 1591-1599	4.5	1
103	Facile preparation of a novel biomass-derived H <sub>3</sub> PO <sub>4</sub> and Mn(NO <sub>3</sub> ) <sub>2</sub> ·nH <sub>2</sub> O activated carbon from citrus bergamia peels for high-performance supercapacitors. <i>Materials Today Communications</i> , <b>2021</b> , 26, 101779	2.5	3
102	Monofunctional curcumin analogues: evaluation of green and safe developers of latent fingerprints. <i>Chemical Papers</i> , <b>2021</b> , 75, 3119-3129	1.9	3
101	Effect of carbon nanotubes functionalization on properties of their nanocomposites with polycarbonate/poly(acrylonitrile-butadiene-styrene) matrix. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50471	2.9	0
100	Electrochemical supercapacitors based on 3D nanocomposites of reduced graphene oxide/carbon nanotube and ZnS. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 836, 155408	5.7	10

99	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2020</b> , 35, 469-478	2	3
98	Peering into the Formation of Template-Free Hierarchical Flowerlike Nanostructures of SrTiO. <i>ACS Omega</i> , <b>2020</b> , 5, 33007-33016	3.9	2
97	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 849-854	4.1	1
96	Cellulosic material obtained from Antarctic algae biomass. <i>Cellulose</i> , <b>2020</b> , 27, 113-126	5.5	16
95	Fabrication of electrospun poly(lactic acid) nanoporous membrane loaded with niobium pentoxide nanoparticles as a potential scaffold for biomaterial applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1559-1567	3.5	5
94	Application of Al <sub>2</sub> O <sub>3</sub> /AlNbO <sub>4</sub> in the oxidation of aniline to azoxybenzene. <i>Chemical Papers</i> , <b>2020</b> , 74, 543-553	1.9	4
93	Oxidation of terpenic alcohols with hydrogen peroxide promoted by Nb <sub>2</sub> O <sub>5</sub> obtained by microwave-assisted hydrothermal method. <i>Molecular Catalysis</i> , <b>2020</b> , 489, 110941	3.3	8
92	Microwave-assisted hydrothermal synthesis and electrochemical characterization of niobium pentoxide/carbon nanotubes composites. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 592-599	2.5	8
91	Tunable graphene oxide inter-sheet distance to obtain graphene oxide-silver nanoparticle hybrids. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1285-1290	3.6	10
90	Renewable supercapacitors based on cellulose/carbon nanotubes/[Bmim][NTf <sub>2</sub> ] ionic liquid. <i>MRS Communications</i> , <b>2019</b> , 9, 726-729	2.7	3
89	Fast and simultaneous doping of SrCaInO:(xEu, yTm, zTb) superstructure by ultrasonic spray pyrolysis. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 14-24	8.9	10
88	Rare earth-doped lead titanate zirconate grown on carbon fibers by microwave-assisted hydrothermal synthesis. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 373-382	2.7	
87	Niobium pentoxide and hydroxyapatite particle loaded electrospun polycaprolactone/gelatin membranes for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 182, 110386	6	22
86	Mechanical characterization of HDPE reinforced with cellulose from rice husk biomass. <i>Polimeros</i> , <b>2019</b> , 29,	1.6	3
85	Preparation, characterization, and biocompatibility of different metal oxide/PEG-based hybrid coating synthesized by sol-gel dip coating method for surface modification of titanium. <i>Progress in Organic Coatings</i> , <b>2019</b> , 130, 206-213	4.8	15
84	Dataset on cellulose nanoparticles from blue agave bagasse and blue agave leaves. <i>Data in Brief</i> , <b>2018</b> , 18, 150-155	1.2	
83	Flexible cellulose-carbon nanotube paper substrate decorated with PZT: sensor properties. <i>MRS Advances</i> , <b>2018</b> , 3, 31-36	0.7	3
82	Feasible and Clean Solid-Phase Synthesis of LiNbO <sub>3</sub> by Microwave-Induced Combustion and Its Application as Catalyst for Low-Temperature Aniline Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1680-1691	8.3	11

81	Production of cellulose nanoparticles from blue agave waste treated with environmentally friendly processes. <i>Carbohydrate Polymers</i> , <b>2018</b> , 183, 294-302	10.3	51
80	Carbon fiber/epoxy composites: effect of zinc sulphide coated carbon nanotube on thermal and mechanical properties. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 1619-1633	2.4	21
79	Radiopaque dental adhesive with addition of niobium pentoxide nanoparticles. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 2301-2314	2.4	7
78	Physical and Biological Properties of a High-Plasticity Tricalcium Silicate Cement. <i>BioMed Research International</i> , <b>2018</b> , 2018, 8063262	3	9
77	Advances in Nanostructured Cellulose-based Biomaterials. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> ,	0.4	14
76	Low temperature liquid phase catalytic oxidation of aniline promoted by niobium pentoxide micro and nanoparticles. <i>Catalysis Communications</i> , <b>2017</b> , 99, 135-140	3.2	21
75	Advances in Nanostructured Cellulose-based Biomaterials. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 1-32	0.4	4
74	Physicochemical properties of nanocomposite films made from sorghum-oxidized starch and nanoclay. <i>Starch/Staerke</i> , <b>2017</b> , 69, 1700079	2.3	6
73	Histological Evaluation of Bone Repair with Hydroxyapatite: A Systematic Review. <i>Calcified Tissue International</i> , <b>2017</b> , 101, 341-354	3.9	50
72	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-10	3.2	6
71	Flexible composite via rapid titania coating by microwave-assisted hydrothermal synthesis. <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 499-504	1.7	2
70	Antimicrobial activity from polymeric composites-based polydimethylsiloxane/TiO <sub>2</sub> /GO: evaluation of filler synthesis and surface morphology. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 2379-2390	2.4	8
69	From banana stem to conductive paper: A capacitive electrode and gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 459-467	8.5	19
68	Electrochemical Cathodic Polarization, a Simplified Method That Can Modified and Increase the Biological Activity of Titanium Surfaces: A Systematic Review. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155231	3.7	4
67	Nano and Micro Ceramic Membranes from Degradable Templates. <i>Materials Research</i> , <b>2016</b> , 19, 1017-1025	0	0
66	Cellulose Nanocrystal Membranes as Excipients for Drug Delivery Systems. <i>Materials</i> , <b>2016</b> , 9,	3.5	33
65	Films based on oxidized starch and cellulose from barley. <i>Carbohydrate Polymers</i> , <b>2015</b> , 133, 644-53	10.3	57
64	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 17441-9	7.7	11

63	Structure, morphology and functionality of acetylated and oxidised barley starches. <i>Food Chemistry</i> , <b>2015</b> , 168, 247-56	8.5	113
62	Comparing different methods to fix and to dehydrate cells on alginate hydrogel scaffolds using scanning electron microscopy. <i>Microscopy Research and Technique</i> , <b>2015</b> , 78, 553-61	2.8	14
61	Compositos cimentícios reforçados com fibras de eucalipto puras e tratadas com tetraetilortossilicato (TEOS 98%). <i>Ambiente Construído</i> , <b>2015</b> , 15, 47-55	0.4	1
60	Effect of shelf-life simulation on the bond strength of self-etch adhesive systems to dentin. <i>Applied Adhesion Science</i> , <b>2014</b> , 2,	1.4	6
59	Influence of the NiO nanoparticles on the ionic conductivity of the agar-based electrolyte. <i>Polimeros</i> , <b>2014</b> , 24, 8-12	1.6	8
58	MgAl <sub>2</sub> O <sub>4</sub> spinel particles prepared by metal-chitosan complexation route and used as catalyst support for direct decomposition of methane. <i>Journal of Molecular Catalysis A</i> , <b>2013</b> , 370, 22-27		16
57	Preparation, modification, and characterization of alginate hydrogel with nano-/microfibers: a new perspective for tissue engineering. <i>BioMed Research International</i> , <b>2013</b> , 2013, 307602	3	11
56	Direct decomposition of methane over Ni catalyst supported in magnesium aluminate. <i>Journal of Power Sources</i> , <b>2012</b> , 208, 409-414	8.9	45
55	Cobalt magnetic nanoparticles embedded in carbon matrix: biofunctional validation. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	
54	YbF <sub>3</sub> /SiO <sub>2</sub> Fillers as Radiopacifiers in a Dental Adhesive Resin. <i>Nano-Micro Letters</i> , <b>2012</b> , 4, 189-196	19.5	9
53	Synthesis, characterization and catalytic properties of nanocrystalline Y <sub>2</sub> O <sub>3</sub> -coated TiO <sub>2</sub> in the ethanol dehydration reaction. <i>Materials Research</i> , <b>2012</b> , 15, 285-290	1.5	7
52	Nano-/microfiber scaffold for tissue engineering: physical and biological properties. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 3051-8	5.4	11
51	Interfacial photoluminescence emission properties of core/shell Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> . <i>CrystEngComm</i> , <b>2012</b> , 14, 393-396	3.3	13
50	A novel synthetic route for magnesium aluminate (MgAl <sub>2</sub> O <sub>4</sub> ) particles using metal-chitosan complexation method. <i>Chemical Engineering Journal</i> , <b>2012</b> , 193-194, 211-214	14.7	21
49	YbF <sub>3</sub> /SiO <sub>2</sub> Fillers as Radiopacifiers in a Dental Adhesive Resin <b>2012</b> , 4, 189		1
48	Photoactive thin films of polycaprolactam doped with europium (III) complex using phenylalanine as ligand. <i>Applied Surface Science</i> , <b>2011</b> , 258, 1437-1442	6.7	5
47	Active carbon preparation from treads of tire waste for dye removal in waste water. <i>Journal of the Brazilian Chemical Society</i> , <b>2011</b> , 22, 2027-2035	1.5	19
46	Temperature and reaction time effects on the structural properties of titanium dioxide nanopowders obtained via the hydrothermal method. <i>Brazilian Journal of Chemical Engineering</i> , <b>2011</b> , 28, 265-272	1.7	29

45	Methane conversion to hydrogen and nanotubes on Pt/Ni catalysts supported over spinel MgAl <sub>2</sub> O <sub>4</sub> . <i>Catalysis Today</i> , <b>2011</b> , 176, 465-469	5.3	34
44	Preparation, characterization and catalytic properties of titanium oxide nanoparticles coated with aluminum oxide. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2011</b> , 102, 75-83	1.6	3
43	Water Content in Self-Etching Primers Affects Their Aggressiveness and Strength of Bonding to Ground Enamel <b>2010</b> , 86, 939-952		8
42	Influence of support on catalytic behavior of nickel catalysts in the steam reforming of ethanol for hydrogen production. <i>Environmental Chemistry Letters</i> , <b>2010</b> , 8, 79-85	13.3	31
41	Gadolinium-doped cerium oxide nanorods: novel active catalysts for ethanol reforming. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 593-598	4.3	31
40	SnO <sub>2</sub> nanoparticles functionalized in amorphous silica and glass. <i>Powder Technology</i> , <b>2009</b> , 195, 91-95	5.2	4
39	Nickel-carbon nanocomposites prepared using castor oil as precursor: A novel catalyst for ethanol steam reforming. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 527-531	8.9	13
38	Carbon-coated SnO <sub>2</sub> nanobelts and nanoparticles by single catalytic step. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 955-963	2.3	6
37	Synthesis of hybrid mesoporous spheres using the chitosan as template. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 860-866	3.9	41
36	Nanofiller loading level: Influence on selected properties of an adhesive resin. <i>Journal of Dentistry</i> , <b>2009</b> , 37, 331-5	4.8	42
35	Influence of Rare Earth Doping on the Structural and Catalytic Properties of Nanostructured Tin Oxide. <i>Nanoscale Research Letters</i> , <b>2008</b> , 3, 194-199	5	25
34	Preparation of glutamine films on silicon substrates. <i>Surface and Interface Analysis</i> , <b>2008</b> , 40, 899-905	1.5	2
33	Synthesis of titania/carbon nanocomposites by polymeric precursor method. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1897-1904	3.9	6
32	Preparation and evaluation of Co/Al <sub>2</sub> O <sub>3</sub> catalysts in the production of hydrogen from thermo-catalytic decomposition of methane: Influence of operating conditions on catalyst performance. <i>Fuel</i> , <b>2008</b> , 87, 1698-1704	7.1	55
31	Obtenç� e caracterizaç� de carbono ativado a partir de res�duos provenientes de bandas de rodagem. <i>Polimeros</i> , <b>2007</b> , 17, 329-333	1.6	8
30	Catalyst nanocomposites templates of carbon nanoribbons, nanospheres and nanotubes. <i>Materials Letters</i> , <b>2007</b> , 61, 3341-3344	3.3	3
29	Hydrogen Production from Ethanol Steam Reforming Over Ni/CeO <sub>2</sub> Nanocomposite Catalysts. <i>Catalysis Letters</i> , <b>2007</b> , 119, 228-236	2.8	41
28	Ni:CeO <sub>2</sub> nanocomposite catalysts prepared by polymeric precursor method. <i>Applied Catalysis A: General</i> , <b>2006</b> , 310, 174-182	5.1	32

27	Kinetic and calorimetric study of the adsorption of dyes on mesoporous activated carbon prepared from coconut coir dust. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 298, 515-22	9.3	122
26	Preparation and evaluation of porous nickel-alumina spheres as catalyst in the production of hydrogen from decomposition of methane. <i>Journal of Molecular Catalysis A</i> , <b>2006</b> , 259, 328-335		22
25	Synthesis of mesoporous Al <sub>2</sub> O <sub>3</sub> microspheres using the biopolymer chitosan as a template: A novel active catalyst system for CO <sub>2</sub> reforming of methane. <i>Materials Letters</i> , <b>2005</b> , 59, 3963-3967	3.3	56
24	Síntese e caracterizaçã de nanocompõsitos Ni: SiO <sub>2</sub> processados na forma de filmes finos. <i>Quimica Nova</i> , <b>2005</b> , 28, 842-846	1.6	2
23	Gas-phase selective conjugate addition of methanol to acetone for methyl vinyl ketone over SnO <sub>2</sub> nanoparticle catalysts. <i>Journal of the Brazilian Chemical Society</i> , <b>2005</b> , 16, 607-613	1.5	4
22	Fotoluminescência e adsorçã de CO <sub>2</sub> em nanopartículas de CaTiO <sub>3</sub> dopadas com lantânio. <i>Quimica Nova</i> , <b>2004</b> , 27, 862-865	1.6	7
21	Processing effects of nanometric rare earth-doped tin oxides on the synthesis of methyl vinyl ketone. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2004</b> , 81, 211-217		3
20	Selective synthesis of vinyl ketone over SnO <sub>2</sub> nanoparticle catalysts doped with rare earths. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 207, 91-96		46
19	Synthesis of Ni nanoparticles in microporous and mesoporous Al and Mg oxides. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 68, 151-157	5.3	26
18	Synthesis of metal-oxide matrix with embedded nickel nanoparticles by a bottom-up chemical process. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2003</b> , 3, 516-20	1.3	2
17	Estudo microestrutural do catalisador Ni/gama-Al <sub>2</sub> O <sub>3</sub> : efeito da adiçã de CeO <sub>2</sub> na reforma do metano com dióxido de carbono. <i>Quimica Nova</i> , <b>2003</b> , 26, 648-654	1.6	6
16	Magnetic properties of Ni:SiO <sub>2</sub> nanocomposites synthesized by a modified sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 621-623	2.6	21
15	Role of vanadium in Ni:Al <sub>2</sub> O <sub>3</sub> catalysts for carbon dioxide reforming of methane. <i>Applied Catalysis A: General</i> , <b>2003</b> , 255, 211-220	5.1	51
14	Magnetic dynamics of single-domain Ni nanoparticles. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 6531-6533	2.5	46
13	Evaluation of hair fiber hydration by differential scanning calorimetry, gas chromatography, and sensory analysis. <i>Journal of Cosmetic Science</i> , <b>2003</b> , 54, 527-35	0.7	9
12	Síntese, caracterizaçã e estudo das propriedades catalíticas e magnéticas de nanopartículas de Ni dispersas em matriz mesoporosa de SiO <sub>2</sub> . <i>Quimica Nova</i> , <b>2002</b> , 25, 935-942	1.6	10
11	Amorphization and grain size effect on milled PbTiO <sub>3</sub> studied by Raman scattering and visible photoluminescence emission. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, 787-789	2.6	13
10	The influence of cation segregation on the methanol decomposition on nanostructured SnO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 86, 185-192	8.5	38

9	Photoluminescence in amorphous (PbLa)TiO <sub>3</sub> thin films deposited on different substrates. <i>Journal of Luminescence</i> , <b>2002</b> , 99, 85-90	3.8	2
8	Superparamagnetism and magnetic properties of Ni nanoparticles embedded in SiO <sub>2</sub> . <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	192
7	Synthesis of mesoporous silica with embedded nickel nanoparticles for catalyst applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 89-94	1.3	28
6	Application of Ni:SiO <sub>2</sub> Nanocomposite to Control the Carbon Deposition on the Carbon Dioxide Reforming of Methane. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 491-494	1.3	7
5	Development of Metal-BiO <sub>2</sub> Nanocomposites in a Single-Step Process by the Polymerizable Complex Method. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3722-3729	9.6	47
4	Photoluminescence in amorphous TiO <sub>2</sub> -PbO systems. <i>Applied Physics A: Materials Science and Processing</i> , <b>2001</b> , 73, 567-569	2.6	15
3	Photoluminescence of nanostructured PbTiO <sub>3</sub> processed by high-energy mechanical milling. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2148-2150	3.4	52
2	Electrospun Starch Nanofibers as a Delivery Carrier for Carvacrol as Anti-Glioma Agent. <i>Starch/Staerke</i> , 2100115	2.3	2
1	Development of xanthan gum-based solid polymer electrolytes with addition of expanded graphite nanosheets. <i>Journal of Applied Polymer Science</i> , 52400	2.9	