

# Geonel Rodriguez Gattorno

## List of Publications by Year in descending order

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75  
papers

2,968  
citations

236612

25  
h-index

161609

54  
g-index

75  
all docs

75  
docs citations

75  
times ranked

5136  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-pure TiO <sub>2</sub> nanoparticles: anatase, brookite and rutile. <i>Nanotechnology</i> , 2008, 19, 145605.	1.3	966
2	One-step synthesis of Mn <sub>3</sub> O <sub>4</sub> nanoparticles: Structural and magnetic study. <i>Journal of Colloid and Interface Science</i> , 2005, 291, 175-180.	5.0	157
3	Efficient Anchoring of Silver Nanoparticles on N-Doped Carbon Nanotubes. <i>Small</i> , 2006, 2, 346-350.	5.2	143
4	Metallic Nanoparticles from Spontaneous Reduction of Silver(I) in DMSO. Interaction between Nitric Oxide and Silver Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2482-2487.	1.2	141
5	Novel Synthesis Pathway of ZnO Nanoparticles from the Spontaneous Hydrolysis of Zinc Carboxylate Salts. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12597-12604.	1.2	104
6	Oxidative desulfurization (ODS) of organosulfur compounds catalyzed by peroxo-metallate complexes of WO <sub>3</sub> -ZrO <sub>2</sub> : Thermochemical, structural, and reactivity indexes analyses. <i>Journal of Catalysis</i> , 2011, 282, 201-208.	3.1	93
7	Synthesis of ZnO Nanoparticles on a Clay Mineral Surface in Dimethyl Sulfoxide Medium. <i>Langmuir</i> , 2004, 20, 2855-2860.	1.6	89
8	An Elementary Picture of Dielectric Spectroscopy in Solids: Physical Basis. <i>Journal of Chemical Education</i> , 2003, 80, 1062.	1.1	77
9	Optical Absorbance of Colloidal Suspensions of Silver Polyhedral Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17512-17517.	1.2	74
10	Properties of Poly (ethylene oxide)/ whey Protein Isolate Nanofibers Prepared by Electrospinning. <i>Food Biophysics</i> , 2015, 10, 134-144.	1.4	65
11	Surface acidâ€“basic properties of WO <sub>3</sub> -ZrO <sub>2</sub> and catalytic efficiency in oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 1-8.	10.8	63
12	Influence of Brookite Impurities on the Raman Spectrum of TiO <sub>2</sub> Anatase Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19921-19930.	1.5	60
13	Thermal decomposition kinetics of MgAl layered double hydroxides. <i>Materials Chemistry and Physics</i> , 2012, 133, 621-629.	2.0	51
14	Synthesis and characterization of WO <sub>3</sub> polymorphs: monoclinic, orthorhombic and hexagonal structures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5526-5531.	1.1	47
15	Photoelectrochemical water oxidation at FTO   WO <sub>3</sub> @CuWO <sub>4</sub> and FTO   WO <sub>3</sub> @CuWO <sub>4</sub>   BiVO <sub>4</sub> heterojunction systems: An IMPS analysis. <i>Electrochimica Acta</i> , 2019, 308, 317-327.	2.6	43
16	Charge Transfer and Recombination Dynamics at Inkjet-Printed CuBi <sub>2</sub> O <sub>4</sub> Electrodes for Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27169-27179.	1.5	41
17	The nucleation kinetics of ZnO nanoparticles from ZnCl <sub>2</sub> in ethanol solutions. <i>Nanoscale</i> , 2010, 2, 2710.	2.8	35
18	Photoelectrochemical water oxidation at electrophoretically deposited WO <sub>3</sub> films as a function of crystal structure and morphology. <i>Electrochimica Acta</i> , 2014, 140, 320-331.	2.6	35

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19	Photocatalytic performance of nitrogen doped ZnO structures supported on graphene oxide for MB degradation. <i>Chemosphere</i> , 2019, 236, 124368.	4.2	34
20	Charge transfer and recombination kinetics at WO <sub>3</sub> for photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2017, 258, 900-908.	2.6	33
21	CeO <sub>2</sub> thin films by flash evaporation. <i>Solid State Ionics</i> , 1997, 96, 89-93.	1.3	32
22	Hierarchically Nanostructured Barium Sulfate Fibers. <i>Langmuir</i> , 2010, 26, 6954-6959.	1.6	32
23	An intensity-modulated photocurrent spectroscopy study of the charge carrier dynamics of WO <sub>3</sub> /BiVO <sub>4</sub> heterojunction systems. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110378.	3.0	31
24	Synthesis and Thermal Behavior of Metallic Cobalt Micro and Nanostructures. <i>Nano-Micro Letters</i> , 2011, 3, 12-19.	14.4	28
25	Anchoring of Silver Nanoparticles on Graphite and Isomorphous Lattices. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5331-5336.	1.5	27
26	Synthesis and direct interactions of silver colloidal nanoparticles with pollutant gases. <i>Colloid and Polymer Science</i> , 2008, 286, 67-77.	1.0	25
27	Stable inks for inkjet printing of TiO <sub>2</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , 2018, 81, 75-81.	1.9	25
28	Thermal Characterization of Carbon Fiber-Reinforced Carbon Composites. <i>Applied Composite Materials</i> , 2019, 26, 321-337.	1.3	25
29	A combined theoretical&quot;experimental study on the acidity of WO <sub>x</sub> -ZrO <sub>2</sub> systems. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4181.	1.3	21
30	Controlled Release of Phenytoin from Nanostructured TiO <sub>2</sub> &lt;sub>2&lt;/sub>/&lt;sub>2&lt;/sub> Reservoirs. <i>Science of Advanced Materials</i> , 2009, 1, 63-68.	0.1	21
31	Structural and thermal study of carbon-modified molybdenum sub-oxide catalysts. <i>Applied Catalysis A: General</i> , 2007, 321, 117-124.	2.2	18
32	Influence of morphology on the performance of ZnO-based dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 37424-37433.	1.7	18
33	Comparing the Efficiency of N-Doped TiO <sub>2</sub> and N-Doped Bi <sub>2</sub> MoO <sub>6</sub> Photo Catalysts for MB and Lignin Photodegradation. <i>Catalysts</i> , 2018, 8, 668.	1.6	18
34	Oxidation process of MoO <sub>x</sub> Cy to MoO <sub>3</sub> : kinetics and mechanism. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3281-3289.	1.4	16
35	Facile synthesis of rod-shaped bismuth sulfide@graphene oxide (Bi <sub>2</sub> S <sub>3</sub> @GO) composite. <i>Materials Chemistry and Physics</i> , 2018, 219, 376-389.	2.0	16
36	New Insights on Molybdenum Suboxide:Â Nature of Carbons in Isomerization Reactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17518-17525.	1.2	15

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37	Cyclohexane Ring Opening on Alumina-Supported Rh and Ir Nanoparticles. <i>Energy &amp; Fuels</i> , 2007, 21, 1122-1126.	2.5	15
38	Dehydration Process of Hofmann-Type Layered Solids. <i>Materials</i> , 2013, 6, 1452-1466.	1.3	15
39	Tailoring Chemical Hardness in WO <sub>3</sub> /ZrO <sub>2</sub> System. <i>Chemistry of Materials</i> , 2006, 18, 5446-5452.	3.2	13
40	Electrical Characterization of Schottky Diodes Based on Inkjet-Printed TiO <sub>2</sub> Films. <i>IEEE Electron Device Letters</i> , 2018, 39, 1940-1943.	2.2	13
41	Inkjet-Printed Reduced Graphene Oxide (rGO) Films For Electrocatalytic Applications. <i>Journal of the Electrochemical Society</i> , 2019, 166, H3279-H3285.	1.3	13
42	Reversible Self-Assembly (fcc-bct) Crystallization of Confined Granular Spheres via a Shear Dimensionality Mechanism. <i>Physical Review Letters</i> , 2018, 121, 074302.	2.9	12
43	Structural, optical and photoelectrochemical properties of Tungsten oxide thin films grown by non-reactive RF-sputtering. <i>Superlattices and Microstructures</i> , 2019, 127, 123-127.	1.4	12
44	Synthesis and Characterization of RuS <sub>2</sub> Nanostructures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22715-22724.	1.2	11
45	Defects in Porous Networks of WO <sub>3</sub> Particle Aggregates. <i>ChemElectroChem</i> , 2016, 3, 658-667.	1.7	11
46	Eco-friendly synthesis of egg-white capped silver nanoparticles for rapid, selective, and sensitive detection of Hg(II). <i>MRS Communications</i> , 2017, 7, 695-700.	0.8	11
47	Forced Hydrolysis vs Self-Hydrolysis of Zinc Acetate in Ethanol and Iso-butanol. <i>ECS Transactions</i> , 2006, 3, 23-28.	0.3	10
48	Fine tuning of inkjet printability parameters for NiO nanofilms fabrication. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123959.	2.3	9
49	Fabrication of Schottky barrier diodes based on ZnO for flexible electronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7373-7377.	1.1	9
50	Tailoring the TiO <sub>2</sub> phases through microwave-assisted hydrothermal synthesis: Comparative assessment of bactericidal activity. <i>Materials Science and Engineering C</i> , 2020, 117, 111290.	3.8	9
51	Activation of CdS nanoparticles by metallic ions and their selective interactions with PAMAM dendrimers. <i>Colloid and Polymer Science</i> , 2004, 282, 957-964.	1.0	8
52	Combined use of high resolution TGA with the isoconversion method: Kinetic analysis of the thermal dehydration of KNbWO <sub>6</sub> ·H <sub>2</sub> O. <i>Thermochimica Acta</i> , 2005, 435, 176-180.	1.2	8
53	Effect of Slip Boundary Condition on the Design of Nanoparticle Focusing Lenses. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3741-3748.	0.9	8
54	Heat Transfer in Cassava Starch Biopolymers: Effect of the Addition of Borax. <i>Polymers</i> , 2021, 13, 4106.	2.0	7

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55	Unraveling amazing structural features of a highly efficient $\alpha\text{-oxo-Co/phosphate}$ catalyst for water oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119549.	10.8	6
56	Direct Interaction of Colloidal Nanostructured ZnO and $\text{SnO}_2$ with NO and $\text{SO}_2$ . <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 6389-6397.	0.9	6
57	Electrodeposition of ZnO for Application in Dye-sensitized Solar Cells. <i>Journal of New Materials for Electrochemical Systems</i> , 2013, 16, 209-215.	0.3	6
58	Inkjet Printing as High-Throughput Technique for the Fabrication of $\text{NiCo}_2\text{O}_4$ Films. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-9.	1.0	5
59	Fabrication of graphitic carbon nitride films by inkjet printing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125919.	2.3	5
60	Effects of Sintering on the Thermal and Optical Properties of Zinc Oxide Ceramic. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	4
61	High non-linear electrical properties of $\text{Li}_3\text{Co}_7\text{Sb}_{2+x}\text{O}_{12}$ a new ceramic varistor. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160356.	2.8	4
62	Thermophysical and optical properties of $\text{NiCo}_2\text{O}_4@\text{ZrO}_2$ : A potential composite for thermochemical processes. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 10632-10641.	3.8	3
63	Role of assisting reagents on the synthesis of $\text{Fe}_2\text{O}_3$ by microwave-assisted hydrothermal reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9551-9566.	1.1	3
64	Mg-Ca <sub>0.3</sub> Electrochemical Activity Exposed to Hank's Physiological Solution and Properties of Ag-Nano-Particles Deposits. <i>Metals</i> , 2021, 11, 1357.	1.0	3
65	Self-generated active sites in graphene oxide-like materials by controlling the oxidative decomposition reactions of Sargassum. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106551.	3.3	3
66	Synthesis and characterization of TiO <sub>2</sub> nanoparticles: anatase, brookite, and rutile. , 2007, 6650, 204.		2
67	$\text{RuS}_2$ Nanoparticles and Their Precursors: A Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6328-6334.	1.5	1
68	Tuning light transmission with smart fluids based on 1D carbon nanomaterials. <i>Materials Research Express</i> , 2019, 6, 115086.	0.8	1
69	Ce, Eu incorporation through doping of ALD-ZnO thin films for enhancing their photoluminescent properties. <i>Nanotechnology</i> , 2021, 32, 145601.	1.3	1
70	Direct interaction of colloidal nanostructured ZnO and $\text{SnO}_2$ with NO and $\text{SO}_2$ . <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 6389-97.	0.9	1
71	Charge Dynamics at Surface-Modified, Nanostructured Hematite Photoelectrodes for Solar Water Splitting. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	1
72	Phase equilibria in the quasi-binary system $\text{Zn}_7\text{Sb}_2\text{O}_{12}-\text{Li}_3\text{Zn}_3\text{Sb}_3\text{O}_{12}$ and thermal properties of $\text{Li}_3\text{Zn}_{7-4x}\text{Sb}_{2+x}\text{O}_{12}$ solid solutions. <i>Ceramics International</i> , 2019, 45, 23119-23125.	2.3	0

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73	Hex Nut Shaped Mesocrystals from Hierarchical Organization of Hexagonal WO <sub>3</sub> Microcrystals. Science of Advanced Materials, 2012, 4, 695-701.	0.1	0
74	MEASURING THE LIGHT CRUDE OIL (LCO) CONTENT IN STANDARD BIODIESEL/LCO BLENDS BY THERMAL ANALYSIS. Quimica Nova, 2018, 2018, .	0.3	0
75	Photoelectrochemistry of Semiconducting Oxide Materials for Solar Water Splitting: Characterization of Charge Carrier Dynamics Using IMPS. , 0, , .		0