

Jose Rogelio Rodriguez Talavera

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

1,820
citations

23
h-index

38
g-index

119
ext. papers

1,980
ext. citations

3.4
avg, IF

4.22
L-index

#	Paper	IF	Citations
116	Piezoelectric response of hydrated HAp-based materials containing different calcium concentrations. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122244	4.4	0
115	Critical flocculation concentration for polyvalent ions using silica nanoparticles; a new version of Schulze-Hardy rule. <i>Adsorption Science and Technology</i> , 2020 , 38, 435-449	3.6	
114	A new method to support the cross-reactivity in allergenic reactions of cypress and wheat using piezoelectric signals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 246, 104-111	3.1	
113	Optimized dye-sensitized solar cells: A comparative study with different dyes, mordants and construction parameters. <i>Results in Physics</i> , 2019 , 12, 2026-2037	3.7	7
112	Biological activity of radiation-induced collagen-polyvinylpyrrolidone-BEG hydrogels. <i>Materials Letters</i> , 2018 , 214, 224-227	3.3	16
111	Colloidal aggregation induced by the reduction in pH and the synthesis of new molecular structures during the milk fermentation process. <i>International Journal of Dairy Technology</i> , 2018 , 71, 56-63	3.7	
110	A novel dual mechanism in dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2017 , 41, 1164-1170	4.5	11
109	Dynamic light scattering: A fast and reliable method to analyze bacterial growth during the lag phase. <i>Journal of Microbiological Methods</i> , 2017 , 137, 34-39	2.8	12
108	Novel Poly(3-hydroxybutyrate-g-vinyl alcohol) Polyurethane Scaffold for Tissue Engineering. <i>Scientific Reports</i> , 2016 , 6, 31140	4.9	14
107	Surface modification of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by direct plasma-radiation-induced graft polymerization of N-hydroxyethyl-acrylamide. <i>Materials Letters</i> , 2016 , 175, 252-257	3.3	6
106	Synthesis and characterization of a HAp-based biomarker with controlled drug release for breast cancer. <i>Materials Science and Engineering C</i> , 2016 , 61, 801-8	8.3	14
105	Piezoelectric properties of synthetic hydroxyapatite-based organic-inorganic hydrated materials. <i>Results in Physics</i> , 2016 , 6, 925-932	3.7	12
104	Membranes of chitosan grafted onto poly(3-hydroxybutyrate): new insights into their applicability as scaffolds. <i>Materials Research Innovations</i> , 2016 , 20, 37-43	1.9	4
103	Transformation Kinetics During Fermented Milk Production Using <i>Lactobacillus Johnsonii</i> (La1) and <i>Streptococcus Thermophilus</i> : A Comparison With Yogurt Inoculum. <i>Food Biophysics</i> , 2015 , 10, 375-384	3.2	1
102	Effects of solvents on the radiation grafting reaction of vinyl compounds on poly(3-hydroxybutyrate). <i>Radiation Physics and Chemistry</i> , 2015 , 108, 87-94	2.5	11
101	Adsorption of lead ions in contaminated water using commercial hydrophilic silica nanoparticles. <i>International Journal of Environment and Pollution</i> , 2015 , 58, 215	0.7	1
100	Determination of lead ion removal from a flowing electrolyte in the presence of a magnetic field using Raman spectroscopy. <i>Medical Physics</i> , 2015 , 42, 6182-9	4.4	

99	Tribological and Mechanical Properties of Poly[(R)-3-hydroxybutyric acid] Grafted with Vinyl Compounds: Insight into Possible Application. <i>International Journal of Polymer Analysis and Characterization</i> , 2015 , 20, 469-479	1.7	4
98	Adsorption and Removal of Cadmium Ions from Simulated Wastewater Using Commercial Hydrophilic and Hydrophobic Silica Nanoparticles: a Comparison with Sol-gel Particles. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	5
97	Escherichia coli viability determination using dynamic light scattering: a comparison with standard methods. <i>Archives of Microbiology</i> , 2014 , 196, 557-63	3	14
96	Structure, mechanism and application of vinyl alcohol oligomers grafted onto poly(3-hydroxybutyrate): a proposal. <i>E-Polymers</i> , 2014 , 14, 397-405	2.7	4
95	Determination of calcium mobility in alkaline-cooked grounded corn in presence of a magnetic field. <i>Journal of Food Science</i> , 2014 , 79, E1343-50	3.4	2
94	Use of Raman spectroscopy to determine the kinetics of chemical transformation in yogurt production. <i>Vibrational Spectroscopy</i> , 2013 , 68, 133-140	2.1	15
93	New polyurethane-anatase titania porous hybrid composite for the degradation of azo-compounds wastes. <i>Composites Part B: Engineering</i> , 2013 , 44, 686-691	10	10
92	Bio-packaged transponder MEMS implanted in rats. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 31-44	3.5	
91	Hydroxyapatite based hybrid dental materials with controlled porosity and improved tribological and mechanical properties. <i>Materials Research Innovations</i> , 2013 , 17, 154-160	1.9	9
90	Stabilized Conversion Efficiency and Dye-Sensitized Solar Cells from Beta vulgaris Pigment. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 4081-93	6.3	30
89	Scratch and abrasion properties of polyurethane-based micro- and nano-hybrid obturation materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4446-55	1.3	6
88	Dielectric determination of bio- and free-calcium in commercial alkaline-cooked ground corn. <i>International Journal of Food Science and Technology</i> , 2012 , 47, 1072-1078	3.8	3
87	Effect of thermal treatments and Co concentration on the structural and luminescent properties of sputtered TiO ₂ :Co films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2167-2172	1.6	
86	Synthesis and characterization of porous hybrid biomaterials with improved mechanical properties. <i>Journal of Composite Materials</i> , 2012 , 46, 1831-1838	2.7	2
85	(Z)-3-butylidenephthalide from Ligusticum porteri, an α-glucosidase inhibitor. <i>Journal of Natural Products</i> , 2011 , 74, 314-20	4.9	67
84	Photo-quenched of the luminescence signal in Co(II)-doped alumina prepared by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1383-1389	3.9	3
83	In vivo evaluation of implant-host tissue interaction using morphology-controlled hydroxyapatite-based biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 1799-810	3.5	5
82	Homogeneous and heterogeneous catalytic behavior of Ni-porphyrines immobilized in SBA-15 for the esterification of DMT. <i>Applied Catalysis A: General</i> , 2011 , 401, 119-123	5.1	8

81	New dye-sensitized solar cells obtained from extracted bracts of <i>Bougainvillea glabra</i> and spectabilis betalain pigments by different purification processes. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 5565-76	6.3	75
80	Hybrid Porous Materials for Dental Applications. <i>Journal of Composite Materials</i> , 2010 , 44, 2667-2678	2.7	4
79	Adsorption of lead ions in aqueous solution using silica-alumina nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 383-387	3.9	24
78	Effect of Cu additions over the lattice parameter and hardness of the NiAl intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 26-29	5.7	15
77	Characterization of microstructures obtained in wedge shaped Al ₂ N ₃ /Mg ingots. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 373-377	5.7	10
76	Smart polymeric membranes: pH-induced non-linear changes in pore size. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 723-728	2.6	5
75	Nonlocal Effects in the Confocal Raman Characterization of Inhomogeneous Polymer Coatings. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 1199-1204	1.6	
74	Sol-gel synthesis and characterization of SBA-15 in presence of metalloporphyrins: m-5,10,15,20 TPP-Ni ²⁺ , Etio-III-Ni ²⁺ and Etio-III-VO ₂ ⁺ . <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 53, 239-245	2.3	8
73	Synthesis and characterization of HAp-based porous materials. <i>Materials Letters</i> , 2009 , 63, 1558-1561	3.3	16
72	Mechanical, chemical and acoustic properties of new hybrid ceramic-polymer varnishes for musical instruments. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 132-140	3.9	6
71	Silica nano-particles produced by worms through a bio-digestion process of rice husk. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 844-850	3.9	54
70	Drying kinetics and segregation in a two-component anti-adherent coating studied by photoluminescence and Raman spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3623-3629	3.9	5
69	Porous hydroxyapatite-based obturation materials for dentistry. <i>Journal of Materials Research</i> , 2008 , 23, 1587-1596	2.5	17
68	Smart Polymeric Membranes: Self-Control of Pore Size Induced by Variations in pH. <i>Polymers and Polymer Composites</i> , 2008 , 16, 359-363	0.8	1
67	Hap-based porous material with potential application as bio-packages for MEMS. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 646-652	2.1	3
66	Defect-induced luminescence in sol-gel silica samples doped with Co(II) at different concentrations. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 145, 97-102	3.1	3
65	Novel wear resistant and low toxicity dental obturation materials. <i>Materials Letters</i> , 2007 , 61, 3025-3029	3.3	12
64	Photo-quenched luminescence in Co(II)-doped sol-gel zirconia. <i>Journal of Sol-Gel Science and Technology</i> , 2007 , 44, 97-104	2.3	8

63	Scratch resistance of different silica filled resins for obturation materials. <i>Materials Research Innovations</i> , 2007 , 11, 181-184	1.9	10
62	Synthesis and characterization of NH ₂ -porphyrins covalently immobilized on modified-SBA-15. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 2573-2581	3.9	27
61	Physicochemical modification of EDTA solutions to improve the smear layer removal in dental applications. <i>Materials Letters</i> , 2006 , 60, 1736-1739	3.3	1
60	Cadmium ions adsorption in simulated wastewater using structured alumina-silica nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5475-5481	3.9	47
59	Malbrancheamide, a new calmodulin inhibitor from the fungus <i>Malbranchea aurantiaca</i> . <i>Tetrahedron</i> , 2006 , 62, 1817-1822	2.4	78
58	Defect-induced luminescence in Co(II)-doped anatase TiO ₂ prepared by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 167-172	3.9	8
57	Growth Of Hydroxyapatite Crystal On The Surface Of Pure Cotton Fabric Previously Modified Using Titanium Isopropoxide. <i>Materials Research Innovations</i> , 2005 , 9, 66-67	1.9	
56	Magnetic Properties Of Poly[Acrylic Acid-(Cobalt Ferrite- Silica)] Composites. <i>Materials Research Innovations</i> , 2005 , 9, 109-109	1.9	
55	Hydrophobic modification of an expansive soil using polymers and organic compounds: a comparative study with lime. <i>Geotechnique</i> , 2005 , 55, 613-616	3.4	3
54	Immobilized zinc acetate complex on the surface of silica-alumina gel modified by succinic acid: an efficient catalyst for the esterification of DMT. <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 91-96	5.3	6
53	Smart membranes: A physical model for a circadian behavior. <i>Applied Physics Letters</i> , 2005 , 87, 144103	3.4	5
52	RHEOLOGICAL PROPERTIES OF SBS-ASPHALT COMPOSITES AT HIGH DEGREE OF MODIFICATION. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004 , 53, 671-684	3	
51	PREPARATION AND BEHAVIOR OF A STAIN-PROTECTING HYBRID COATING FOR TEETH. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004 , 53, 645-651	3	2
50	SYNTHESIS AND CHARACTERIZATION OF A WEAR-RESISTANT HYBRID POLYMER-CERAMIC COATING FOR DENTAL APPLICATIONS. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004 , 53, 859-869	3	1
49	Studies on the rubber phase stability in gamma irradiated polystyrene-SBR blends by using FT-IR and Raman spectroscopy. <i>Radiation Physics and Chemistry</i> , 2004 , 69, 155-162	2.5	33
48	Mesogeneous Catalysts: A New Concept in Nanotechnology. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 643-646	4.8	7
47	Fourier transform infrared and Raman spectra. Semi empirical AM1 and PM3; MP2/DZV and DFT/B3LYP-6-31G(d) ab initio calculations for dimethylterephthalate (DMT). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 2171-80	4.4	13
46	Nanoparticle-enhanced thermoluminescence in silica gels. <i>Nanotechnology</i> , 2003 , 14, L19-22	3.4	20

45	Naturally produced carbon nanotubes. <i>Chemical Physics Letters</i> , 2003 , 373, 272-276	2.5	36
44	Synthesis, characterization and luminescence properties of Tb ³⁺ and Eu ³⁺ -doped poly(acrylic acid). <i>Materials Letters</i> , 2003 , 57, 2885-2893	3.3	30
43	Hydroxyapatite crystals grown on a cellulose matrix using titanium alkoxide as a coupling agent. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2948-2951		23
42	Refractive index measurement of pure and Er ³⁺ -doped ZrO ₂ BiO ₂ sol-gel film by using the Brewster angle technique. <i>Optical Materials</i> , 2002 , 19, 275-281	3.3	33
41	Raman studies on laser induced crystallization of Co(II) doped titania; effect of the dopant concentration. <i>Optical Materials</i> , 2002 , 20, 43-50	3.3	10
40	Synthesis, characterization and catalytic behavior of a zinc acetate complex immobilized on silica-gel. <i>Applied Catalysis A: General</i> , 2002 , 231, 131-149	5.1	12
39	Fractal Characterization of Silica Sol Prepared by the Sol-Gel Method: From the Sol Formation to the Flocculation Process. <i>Journal of Sol-Gel Science and Technology</i> , 2002 , 23, 99-105	2.3	6
38	A Novel Approach for Coating Acrylic Surfaces with Zirconia at Low Temperature. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2002 , 51, 167-180	3	3
37	Growth of hydroxyapatite on silica gels in the presence of organic additives: kinetics and mechanism. <i>Materials Research Innovations</i> , 2001 , 4, 222-230	1.9	15
36	Photoluminescence of TiO ₂ : Eu ³⁺ thin films obtained by sol-gel on Si and Corning glass substrates. <i>Thin Solid Films</i> , 2001 , 401, 118-123	2.2	58
35	Hydroxyapatite spheres with controlled porosity for eye ball prosthesis: processing and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 305-11	4.5	28
34	Adsorption Properties of Metal Ions Using Alumina Nano-Particles in Aqueous and Alcoholic Solutions. <i>Journal of Sol-Gel Science and Technology</i> , 2001 , 20, 263-273	2.3	33
33	Apatite growth on calcium adsorbed surface of wet flocculated silica particles immersed in a modified simulated body fluid. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 53, 44-50		7
32	Thermo-luminescence induced by gamma irradiation in sol-gel prepared zirconia-silica materials. <i>Materials Research Innovations</i> , 2000 , 4, 32-35	1.9	4
31	Tribological improvement of aluminium infiltrated with zirconia nanoparticles. <i>Materials Research Innovations</i> , 2000 , 4, 42-44	1.9	4
30	Segregation effects in sol-gel zirconia-silica materials analyzed through their radial distribution functions. <i>Materials Research Innovations</i> , 2000 , 3, 205-211	1.9	2
29	High temperature thermoluminescence induced on UV-irradiated tetragonal ZrO ₂ prepared by sol-gel. <i>Materials Letters</i> , 2000 , 45, 241-245	3.3	47
28	Flocculation process of alumino-silicate particles using different metal ions in aqueous and alcoholic solutions. <i>Journal of Non-Crystalline Solids</i> , 2000 , 277, 30-38	3.9	5

27	Effects of cationic dopants on the phase transition temperature of titania prepared by the sol-gel method. <i>Journal of Materials Research</i> , 1999 , 14, 3932-3937	2.5	71
26	Synthesis and spectroscopic characterization of Eu ³⁺ -doped poly(acrylic acid). <i>Materials Letters</i> , 1999 , 39, 329-334	3.3	19
25	Synthesis of hydroxyapatite from eggshells. <i>Materials Letters</i> , 1999 , 41, 128-134	3.3	192
24	Adsorption properties of silica sols modified with thiol groups. <i>Journal of Non-Crystalline Solids</i> , 1999 , 246, 209-215	3.9	28
23	Reverse Micelle Systems Composed of Water, Triton X-100, and Phospholipids in Organic Solvents. <i>Journal of Colloid and Interface Science</i> , 1998 , 197, 21-8	9.3	25
22	Reverse Micelle Systems Composed of Water, Triton X-100, and Phospholipids in Organic Solvents. <i>Journal of Colloid and Interface Science</i> , 1998 , 197, 29-35	9.3	5
21	Growth of calcium phosphate onto coagulated silica prepared by using modified simulated body fluids. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2807-2812		8
20	Modification of the phase transition temperatures in titania doped with various cations. <i>Journal of Materials Research</i> , 1997 , 12, 439-443	2.5	101
19	Mechanical Properties of the Composite Asphalt-Styrene-Butadiene Copolymer at High Degree of Modification. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1997 , 35, 129-144	3	5
18	A study of the kinetics of gelation of silica particles induced by lead ions in alcoholic solution. <i>Materials Letters</i> , 1997 , 30, 73-77	3.3	3
17	Laser-induced crystallization of Co(II)-doped titania. <i>Materials Research Bulletin</i> , 1996 , 31, 329-334	5.1	17
16	Rheological properties of styrene-butadiene copolymer reinforced asphalt. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 1493-1501	2.9	31
15	Percolation Modeling of the Mechanical Behavior of the Composite Polybutadiene-Cellulose Diacetate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 32, 111-118	3	3
14	Morphology and tensile properties of styrene-butadiene copolymer reinforced asphalt. <i>Journal of Applied Polymer Science</i> , 1995 , 56, 57-64	2.9	16
13	Simple model for the instabilities in the aggregation of silica sols in a sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 3, 11-22	2.3	
12	Morphological characterization of polybutadiene-cellulose diacetate composites. <i>Materials Letters</i> , 1994 , 18, 353-357	3.3	5
11	Master behavior for gelation in a sol-gel process under different temperature and pH conditions. <i>Journal of Non-Crystalline Solids</i> , 1993 , 163, 90-96	3.9	2
10	Dynamic light scattering studies of the stability and growth of silica particles. <i>Journal of Non-Crystalline Solids</i> , 1993 , 159, 73-79	3.9	17

9	Aggregation profiles of silica sols in a sol-gel process. <i>Materials Letters</i> , 1993 , 16, 89-95	3.3	8
8	Master behaviour for gelation in fluoride-catalyzed gels. <i>Materials Letters</i> , 1992 , 15, 242-247	3.3	14
7	Use of ultrasonic degradation and nuclear magnetic resonance as tools for the elucidation of composition of rubber-reinforced plastics. <i>Materials Letters</i> , 1992 , 12, 448-452	3.3	4
6	Time dependence of particle size and particle number of silica sols under reflux conditions. <i>Journal of Non-Crystalline Solids</i> , 1992 , 151, 229-235	3.9	10
5	A DNA polymerase from maize axes: its purification and possible role. <i>Plant Molecular Biology</i> , 1992 , 20, 1159-68	4.6	26
4	Evaluation of the polybutadiene content in some high-impact copolymers by transmission electron microscopy and digital image processing. <i>Materials Letters</i> , 1991 , 12, 199-202	3.3	4
3	Oxidation of <i>Neurospora crassa</i> NADP-specific glutamate dehydrogenase by activated oxygen species. <i>Journal of Bacteriology</i> , 1989 , 171, 6243-50	3.5	21
2	Characterization of linear copolymers by methods sensitive to the refractive index increment. <i>Polymer Engineering and Science</i> , 1988 , 28, 510-516	2.3	
1	Low-impedance and low-loss customized materials for air-coupled piezoelectric transducers		5