

MÃ³nica BaizÃn-Rojas

List of Publications by Year in descending order

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120
papers

1,928
citations

318942

23
h-index

340414

39
g-index

135
all docs

135
docs citations

135
times ranked

2820
citing authors

#	ARTICLE	IF	CITATIONS
1	Pretreatment methods of lignocellulosic wastes into value-added products: recent advances and possibilities. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 547-564.	2.9	39
2	Nanobioremediation: An introduction. , 2022, , 3-22.		0
3	Bio-Inspired Proanthocyanidins from Blueberriesâ€™™ Surface Coating Prevents Red Blood Cell Agglutination on Urinary Silicon-Based Catheters. <i>Coatings</i> , 2022, 12, 172.	1.2	0
4	Estrategia de difusi3n de la nanotecnologÃa: EnseÃ±anza interdisciplinaria a profesores de educaci3n primaria. <i>Uniciencia</i> , 2022, 36, 1-13.	0.1	1
5	Biodegradable plastics in aquatic ecosystems: latest findings, research gaps, and recommendations. <i>Environmental Research Letters</i> , 2022, 17, 033003.	2.2	23
6	Interaction and Compatibility Studies in the Development of Olmesartan Medoxomil and Hydrochlorothiazide Formulations under a Real Manufacturing Process. <i>Pharmaceutics</i> , 2022, 14, 424.	2.0	3
7	Crystal Forms of the Antihypertensive Drug Irbesartan: A Crystallographic, Spectroscopic, and Hirshfeld Surface Analysis Investigation. <i>ACS Omega</i> , 2022, 7, 14897-14909.	1.6	3
8	Bovine Serum Albumin-Based Nanoparticles: Preparation, Characterization, and Antioxidant Activity Enhancement of Three Main Curcuminoids from <i>Curcuma longa</i> . <i>Molecules</i> , 2022, 27, 2758.	1.7	6
9	Evaluation of Piperine as Natural Coformer for Eutectics Preparation of Drugs Used in the Treatment of Cardiovascular Diseases. <i>AAPS PharmSciTech</i> , 2022, 23, 127.	1.5	2
10	Application of Poly-L-Lysine for Tailoring Graphene Oxide Mediated Contact Formation between Lithium Titanium Oxide LTO Surfaces for Batteries. <i>Polymers</i> , 2022, 14, 2150.	2.0	1
11	Quality by Design: A Suitable Methodology in Industrial Pharmacy for Costa Rican Universities. <i>Scientia Pharmaceutica</i> , 2022, 90, 34.	0.7	1
12	Hybrid Nanoparticles of Proanthocyanidins from <i>Uncaria tomentosa</i> Leaves: QTOF-ESI MS Characterization, Antioxidant Activity and Immune Cellular Response. <i>Plants</i> , 2022, 11, 1737.	1.6	2
13	Exploration of Bioengineered Scaffolds Composed of Thermo-Responsive Polymers for Drug Delivery in Wound Healing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1408.	1.8	35
14	Exopolysaccharides Production by Cultivating a Bacterial Isolate from the Hypersaline Environment of Salar de Uyuni (Bolivia) in Pretreatment Liquids of Steam-Exploded Quinoa Stalks and Enzymatic Hydrolysates of CurupaÃº Sawdust. <i>Fermentation</i> , 2021, 7, 33.	1.4	19
15	Curcumin Loaded and Co-loaded Nanosystems: A Review from a Biological Activity Enhancement Perspective. <i>Pharmaceutical Nanotechnology</i> , 2021, 9, 85-100.	0.6	5
16	Ãcido L-polilÃctico (PLA) y nanotubos de carbono de pared mÃltiple (NTCPM) con potenciales aplicaciones industriales. <i>Revista Colombiana De Quimica</i> , 2021, 50, 20-39.	0.2	1
17	Residual Brewing Yeast as Substrate for Co-Production of Cell Biomass and Biofilm Using <i>Candida maltosa</i> SM4. <i>Fermentation</i> , 2021, 7, 84.	1.4	5
18	Persea Americana Agro-Industrial Waste Biorefinery for Sustainable High-Value-Added Products. <i>Polymers</i> , 2021, 13, 1727.	2.0	22

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19	Nanotecnología en la periferia: los casos de Costa Rica, Uruguay y Venezuela. Mundo Nano Revista Interdisciplinaria En Nanociencia Y Nanotecnología, 2021, 15, 1e-25e.	0.1	0
20	Use of nanosystems to improve the anticancer effects of curcumin. Beilstein Journal of Nanotechnology, 2021, 12, 1047-1062.	1.5	6
21	Concentration Dependent Single Chain Properties of Poly(sodium 4-styrenesulfonate) Subjected to Aromatic Interactions with Chlorpheniramine Maleate Studied by Diafiltration and Synchrotron-SAXS. Polymers, 2021, 13, 3563.	2.0	0
22	Design of Hybrid Polymeric-Lipid Nanoparticles Using Curcumin as a Model: Preparation, Characterization, and In Vitro Evaluation of Demethoxycurcumin and Bisdemethoxycurcumin-Loaded Nanoparticles. Polymers, 2021, 13, 4207.	2.0	6
23	Topical Chitosan-Based Thermo-Responsive Scaffold Provides Dexketoprofen Trometamol Controlled Release for 24 h Use. Pharmaceutics, 2021, 13, 2100.	2.0	13
24	Synthesis of Silver Nanoparticles Using Extracts from Yerba Mate (<i>Ilex paraguariensis</i>) Wastes. Waste and Biomass Valorization, 2020, 11, 245-253.	1.8	11
25	Microplastic ingestion by a herring <i>Opisthonema</i> sp. in the Pacific coast of Costa Rica. Regional Studies in Marine Science, 2020, 38, 101367.	0.4	7
26	Organic amendments exacerbate the effects of silver nanoparticles on microbial biomass and community composition of a semiarid soil. Science of the Total Environment, 2020, 744, 140919.	3.9	12
27	Increased Fibroblast Metabolic Activity of Collagen Scaffolds via the Addition of Propolis Nanoparticles. Materials, 2020, 13, 3118.	1.3	9
28	Micro- and Nanofibrillated Cellulose (MNFC) from Pineapple (<i>Ananas comosus</i>) Stems and Their Application on Polyvinyl Acetate (PVAc) and Urea-Formaldehyde (UF) Wood Adhesives. Journal of Nanomaterials, 2020, 2020, 1-12.	1.5	12
29	Nonirritant and Cytocompatible <i>Tinospora cordifolia</i> Nanoparticles for Topical Antioxidant Treatments. International Journal of Biomaterials, 2020, 2020, 1-9.	1.1	2
30	Biorefinery of Biomass of Agro-Industrial Banana Waste to Obtain High-Value Biopolymers. Molecules, 2020, 25, 3829.	1.7	40
31	Green Synthesis of Gold and Silver Nanoparticles from Plant Extracts and Their Possible Applications as Antimicrobial Agents in the Agricultural Area. Nanomaterials, 2020, 10, 1763.	1.9	221
32	Self-assembly study of type I collagen extracted from male Wistar Hannover rat tail tendons. Biomaterials Research, 2020, 24, 19.	3.2	10
33	Biosensors for the Detection of Bacterial and Viral Clinical Pathogens. Sensors, 2020, 20, 6926.	2.1	77
34	Fungal biosynthesis of lignin-modifying enzymes from pulp wash and <i>Luffa cylindrica</i> for azo dye RB5 biodecolorization using modeling by response surface methodology and artificial neural network. Journal of Hazardous Materials, 2020, 399, 123094.	6.5	37
35	NANOESTRUCTURAS DE SILICIO EN BIOMEDICINA Y BIOTECNOLOGÍA. Momento, 2020, , 18-40.	0.3	0
36	Recent Advances in Carbon Nanotubes for Nervous Tissue Regeneration. Advances in Polymer Technology, 2020, 2020, 1-16.	0.8	31

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37	Microhabitat heterogeneity associated with <i>Vanilla</i> spp. and its influences on the microbial community of leaf litter and soil. <i>Soil Ecology Letters</i> , 2020, 2, 195-208.	2.4	2
38	REGENERACI ³ N DEL ³ RGANO CUT ³ NEO MEDIANTE INGENIER ³ A DE TEJIDOS. <i>Momento</i> , 2020, , 67-95.	0.3	0
39	Environmentally relevant concentrations of silver nanoparticles diminish soil microbial biomass but do not alter enzyme activities or microbial diversity. <i>Journal of Hazardous Materials</i> , 2020, 391, 122224.	6.5	33
40	Crystal Engineering to Design of Solids: From Single to Multicomponent Organic Materials. <i>Mini-Reviews in Organic Chemistry</i> , 2020, 17, 518-538.	0.6	6
41	Electrospun nanofibers: A nanotechnological approach for drug delivery and dissolution optimization in poorly water-soluble drugs. <i>ADMET and DMPK</i> , 2020, 8, 325-353.	1.1	9
42	S ³ NTESIS Y CARACTERIZACI ³ N DE CELULOSA AMORFA A PARTIR DE TRIACETATO DE CELULOS. <i>Revista De La Sociedad Qu³mica Del Per³</i> , 2020, 80, 45-50.	0.2	2
43	Statistical Approach to Regulation of Nanotechnology: Need, Advantages and Disadvantages. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2020, 11, 14-32.	1.0	4
44	Irbesartan desmotropes: Solid-state characterization, thermodynamic study and dissolution properties. <i>Journal of Pharmaceutical Analysis</i> , 2019, 9, 339-346.	2.4	12
45	Biocompatibility of Developing 3D-Printed Tubular Scaffold Coated with Nanofibers for Bone Applications. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-13.	1.5	21
46	Biorefinery of Rice Husk to Obtain Functionalized Bioactive Compounds. <i>Journal of Renewable Materials</i> , 2019, 7, 313-324.	1.1	3
47	Drug Solubility Enhancement through the Preparation of Multicomponent Organic Materials: Eutectics of Lovastatin with Carboxylic Acids. <i>Pharmaceutics</i> , 2019, 11, 112.	2.0	38
48	On the comparison between diafiltration and isothermal titration calorimetry: Determination of the amount of analytes bound to water-soluble polymers. <i>Polymer Testing</i> , 2019, 76, 443-447.	2.3	1
49	The effect of solution environment and the electrostatic factor on the crystallisation of desmotropes of irbesartan. <i>RSC Advances</i> , 2019, 9, 5244-5250.	1.7	8
50	Synthesis and characterization of silver nanoparticles and their application as an antibacterial agent. <i>International Journal of Biosensors & Bioelectronics</i> , 2019, 5, .	0.2	23
51	Nanobiodiversity and Biomimetic Adhesives Development: From Nature to Production and Application. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2019, 10, 78-101.	1.0	5
52	3D polymeric scaffolds for oral tissue regeneration. <i>Ciencias Veterinarias</i> , 2019, 37, 28.	0.0	0
53	Nanocarrier Applied in The Distribution of Drugs in the Assistance for the Cancer Treatment. <i>American Journal of Biomedical Science & Research</i> , 2019, 5, 469-480.	0.2	2
54	Multidimensional Poverty in Paraguay: Trends from 2000 to 2015. <i>Social Indicators Research</i> , 2018, 140, 1035-1076.	1.4	14

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55	Caracterizaci3n estructural de ves3culas modificadas con quitosano. <i>Uniciencia</i> , 2018, 32, 32.	0.1	2
56	Physico3Chemical Characterization of Dentinal Surface Treated with Atmospheric- Pressure Plasma. <i>Plasma Medicine</i> , 2018, 8, 357-364.	0.2	0
57	Using Vegetal Biomass for Pollution Adsorption. <i>ACS Symposium Series</i> , 2018, , 1-13.	0.5	1
58	Biological Degradation of Plastics: Polyethylene Biodegradation by <i>Aspergillus</i> and <i>Streptomyces</i> Species3A Review. <i>ACS Symposium Series</i> , 2018, , 69-79.	0.5	4
59	Ampicillin-Loaded Chitosan Nanoparticles for In Vitro Antimicrobial Screening on <i>Escherichia coli</i> . , 2018, , .		2
60	An examination of SEC revenue recognition comments and IPO earnings management. <i>Accounting Research Journal</i> , 2018, 31, 371-387.	1.3	5
61	Biogenic silica-based microparticles obtained as a sub-product of the nanocellulose extraction process from pineapple peels. <i>Scientific Reports</i> , 2018, 8, 10417.	1.6	27
62	Basis and Applications of Silicon Reinforced Adhesives. <i>Organic and Medicinal Chemistry International Journal</i> , 2018, 5, .	0.1	6
63	Evaluation of the Synergistic Effect of EDTA-Functionalized Chitosan Nanoparticles on Imipenem Delivery in <i>Pseudomonas aeruginosa</i> ; Carbapenem-Resistant Strain AG1. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2018, 09, 64-78.	1.0	1
64	Study of Microorganisms Associated with the Chemical Compounds in a Tropical Soil. <i>International Journal of Plant & Soil Science</i> , 2018, 21, 1-13.	0.2	0
65	Isomerization of Fatty Acids: A Cellular Barrier Mechanism in Nanotechnology?. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5436-5444.	0.9	2
66	Characterization and cellular response of 3D-scaffold functionalized with PLA nanofibers. <i>Dental Materials</i> , 2017, 33, e19-e20.	1.6	0
67	Castor oil (<i>Ricinus communis</i>) supercritical methanolysis. <i>Energy</i> , 2017, 140, 426-435.	4.5	31
68	Cholic acid covalently bound to multi-walled carbon nanotubes: Improvements on dispersion stability. <i>Materials Chemistry and Physics</i> , 2017, 200, 331-341.	2.0	9
69	Extracellular micro and nanostructures forming the velvet worm solidified adhesive secretion. <i>Materials Research Express</i> , 2017, 4, 125013.	0.8	9
70	Effects of adding TiO2 nanoparticles to a water-based varnish for wood applied to nine tropical woods of Costa Rica exposed to natural and accelerated weathering. <i>Journal of Coatings Technology Research</i> , 2017, 14, 141-152.	1.2	28
71	Irbesartan crystal forms: thermodynamic and dissolution properties study. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C778-C778.	0.0	0
72	Silver Nanoparticles: Technological Advances, Societal Impacts, and Metrological Challenges. <i>Frontiers in Chemistry</i> , 2017, 5, 6.	1.8	241

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73	Synthesis and Characterization of Interpenetrating Polymer Networks (IPNs) from Acrylated Soybean Oil and \pm -Resorcylic Acid: Part 1. Kinetics of Network Formation. Journal of Renewable Materials, 2017, 5, 231-240.	1.1	4
74	Effect of Silver Nanoparticles Synthesized with NPs _{Ag} -Ethylene Glycol (C ₂ H ₆ O ₂) on Brown Decay and White Decay Fungi of Nine Tropical Woods. Journal of Nanoscience and Nanotechnology, 2017, 17, 5233-5240.	0.9	24
75	Nanobiodiversity: The Potential of Extracellular Nanostructures. Journal of Renewable Materials, 2017, 5, 199-207.	1.1	1
76	NanoUV-VIS: An Interactive Visualization Tool for Monitoring the Evolution of Optical Properties of Nanoparticles Throughout Synthesis Reactions. Journal of Research of the National Institute of Standards and Technology, 2017, 122, 1-10.	0.4	3
77	Encapsulation of Bacterial Metabolic Infiltrates Isolated from Different <i>Bacillus</i> Strains in Chitosan Nanoparticles as Potential Green Chemistry-Based Biocontrol Agents against <i>Radopholus similis</i> . Journal of Renewable Materials, 2017, 5, 290-299.	1.1	12
78	Synthesis and Characterization of Nanocrystalline Cellulose Derived from Pineapple Peel Residues. Journal of Renewable Materials, 2017, 5, 271-279.	1.1	26
79	Production of Starch Films Using Propolis Nanoparticles as Novel Bioplasticizer. Journal of Renewable Materials, 2017, 5, 189-198.	1.1	26
80	Synthesis and Reinforcement of Thermostable Polymers Using Renewable Resources. Journal of Renewable Materials, 2017, 5, 313-322.	1.1	7
81	Variation of Physical Properties of Rigid Polyurethane Foams Synthesized from Renewable Sources with Different Commercial Catalysts. Journal of Renewable Materials, 2017, 5, 280-289.	1.1	4
82	Production of Polyhydroxybutyrate (PHB) by <i>Bacillus megaterium</i> DSM 32 from Residual Glycerol of the Bioenergy Industry. Journal of Renewable Materials, 2017, 5, 323-331.	1.1	4
83	Thermal-Mechanical Characterization of Polyurethane Rigid Foams: Effect of Modifying Bio-Polyol Content in Isocyanate Prepolymers. Journal of Renewable Materials, 2017, 5, 220-230.	1.1	14
84	Synthesis and Characterization of Interpenetrating Polymer Networks (IPNs) from Acrylated Soybean Oil \pm -Resorcylic Acid: Part 2. Thermo-Mechanical Properties and Linear Fracture Mechanics. Journal of Renewable Materials, 2017, 5, 241-250.	1.1	6
85	Nanobots: Development and Future. International Journal of Biosensors & Bioelectronics, 2017, 2, .	0.2	6
86	Determination of the way resistance coefficient using a trailer's method.. Inge Cuc, 2017, 13, 35-41.	0.2	0
87	Evaluation of Microleakage by Gas Permeability and Marginal Adaptation of MTA and Biodentine [®] Apical Plugs: In Vitro Study. Odovtos International Journal of Dental Sciences, 2017, 20, 57-67.	0.1	0
88	Biopulp from Pineapple Leaf Fiber Produced by Colonization with Two White-Rot Fungi: <i>Trametes versicolor</i> and <i>Pleurotus ostreatus</i> . BioResources, 2016, 11, .	0.5	8
89	Effects of Adding Multiwall Carbon Nanotubes on Performance of Polyvinyl Acetate and Urea-Formaldehyde Adhesives in Tropical Timber Species. Journal of Nanomaterials, 2015, 2015, 1-15.	1.5	5
90	Effects of adding nano-clay (montmorillonite) on performance of polyvinyl acetate (PVAc) and urea-formaldehyde (UF) adhesives in <i>Carapa guianensis</i> , a tropical species. International Journal of Adhesion and Adhesives, 2015, 59, 62-70.	1.4	45

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91	Gold and Silver Nanotechnology on Medicine. Journal of Chemistry and Biochemistry, 2015, 3, .	0.3	9
92	Membranas de colágeno y quitosano de fuentes alternativas: evaluación para su uso potencial en ingeniería de tejidos. Tecnología En Marcha, 2015, 28, 58.	0.1	3
93	Micro, Meso and Macro Porous Materials on Medicine. Journal of Biomaterials and Nanobiotechnology, 2015, 06, 247-256.	1.0	27
94	Influencia de las nanopartículas de sílice en polímeros termoplásticos. Mundo Nano Revista Interdisciplinaria En Nanociencia Y Nanotecnología, 2015, 6, .	0.1	0
95	Genioglossus muscle advancement: A modification of the conventional technique. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 239-244.	0.7	22
96	Freeze-dried snake antivenoms formulated with sorbitol, sucrose or mannitol: Comparison of their stability in an accelerated test. Toxicon, 2014, 90, 56-63.	0.8	18
97	Optimization of Microwave-Assisted and Conventional Heating Comparative Synthesis of Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Over Pineapple (Ananas comosus) Fermented Wastes. Journal of Polymers and the Environment, 2014, 22, 393-397.	2.4	8
98	Polymorphic stability of progesterone under stress conditions. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1564-C1564.	0.0	0
99	Síntesis de CeO ₂ : propiedades del sol-gel y caracterización de las nanopartículas obtenidas. Tecnología En Marcha, 2014, 27, 62.	0.1	2
100	Laboratorio Nacional de Nanotecnología LANOTEC y PYMES hacia procesos eficientes de producción de biocombustibles: I+D+i de la mano de la nanotecnología en Costa Rica. Mundo Nano Revista Interdisciplinaria En Nanociencia Y Nanotecnología, 2014, 5, .	0.1	0
101	Bioinspired Engineering at Nanoscale: Integration of Synthetic Biology and Bionanotechnology. Journal of Bionanoscience, 2013, 7, 485-496.	0.4	3
102	Polymer-liposome nanoparticles obtained by the electrostatic bio-adsorption of natural polymers onto soybean lecithin liposomes. International Journal of Nanoparticles, 2012, 5, 196.	0.1	2
103	Use of Rice Husk as Filler in Flexible Polyurethane Foams. Macromolecular Symposia, 2012, 321-322, 202-207.	0.4	4
104	Overview of Multidrug-Resistant <i>Pseudomonas aeruginosa</i> and Novel Therapeutic Approaches. Journal of Biomaterials and Nanobiotechnology, 2012, 03, 519-527.	1.0	32
105	How Far Are We from Ensuring Opportunities for All? The Human Opportunity Index. , 2011, , 9-43.		0
106	The State of Human Opportunities for Children in the Latin America and the Caribbean Region: 1995-2010. , 2011, , 45-84.		0
107	Human Opportunities at the Subnational Level in Latin America and the Caribbean. , 2011, , 113-145.		0
108	Human Opportunities in a Global Context: Benchmarking LAC to Other Regions of the World. , 2011, , 85-112.		0

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109	Protein-loaded chitosan nanoparticles modulate uptake and antigen presentation of hen egg-white lysozyme by murine peritoneal macrophages. <i>International Journal of Nanoparticles</i> , 2010, 3, 179.	0.1	4
110	Influence of iron oxide nanoparticles on the rheological properties of hybrid chitosan ferrogels. <i>Journal of Colloid and Interface Science</i> , 2009, 339, 53-59.	5.0	56
111	Kinetics of Isothermal Degradation Studies in Adhesives by Thermogravimetric Data: Effect of Hydrophilic Nanosilica Fillers on the Thermal Properties of Thermoplastic Polyurethane-Silica Nanocomposites. <i>Recent Patents on Nanotechnology</i> , 2008, 2, 220-226.	0.7	4
112	Properties of thermoplastic polyurethane adhesives containing nanosilicas with different specific surface area and silanol content. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 469-479.	1.4	59
113	Addition of nanosilicas with different silanol content to thermoplastic polyurethane adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2006, 26, 378-387.	1.4	64
114	Interactions in Nanosilica-Polyurethane Composites Evidenced by Plate-Plate Rheology and DMTA. <i>Macromolecular Symposia</i> , 2005, 221, 1-10.	0.4	22
115	Structure and Properties of Biodegradable Polymers: Rolling Effect in Poly (butylene succinate) Sheets. <i>Polymers and Polymer Composites</i> , 2004, 12, 63-73.	1.0	7
116	Orientation Effect in Poly (Butylene Succinate) Fibers. <i>Polymers and Polymer Composites</i> , 2003, 11, 51-56.	1.0	4
117	Secretion of insulin-like growth factor-I (IGF-I) and IGF-binding proteins from bovine mammary tissue in vitro. <i>Journal of Endocrinology</i> , 1991, 128, 219-228.	1.2	67
118	Changes in insulin-like growth factor-binding proteins in bovine mammary secretions associated with pregnancy and parturition. <i>Journal of Endocrinology</i> , 1991, 131, 127-133.	1.2	41
119	Pineapple Biorefinery in Costa Rica. , 0, , .		1
120	Evaluation of Dentin Microroughness and Composite Bond Strength After Multiple Uses of Diamond Burs. <i>Odovtos International Journal of Dental Sciences</i> , 0, , 353-365.	0.1	0