

Marcela Hernández

List of Publications by Year in descending order

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105
papers

3,617
citations

172457

29
h-index

149698

56
g-index

110
all docs

110
docs citations

110
times ranked

3810
citing authors

#	ARTICLE	IF	CITATIONS
1	Host response mechanisms in periodontal diseases. <i>Journal of Applied Oral Science</i> , 2015, 23, 329-355.	1.8	314
2	Analysis of matrix metalloproteinases, especially MMP-8, in gingival crevicular fluid, mouthrinse and saliva for monitoring periodontal diseases. <i>Periodontology 2000</i> , 2016, 70, 142-163.	13.4	207
3	Matrix Metalloproteinases as Regulators of Periodontal Inflammation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 440.	4.1	197
4	Host-Pathogen Interactions in Progressive Chronic Periodontitis. <i>Journal of Dental Research</i> , 2011, 90, 1164-1170.	5.2	152
5	Detection of gingival crevicular fluid MMP-8 levels with different laboratory and chair-side methods. <i>Oral Diseases</i> , 2010, 16, 39-45.	3.0	143
6	Collagenase-2 (MMP-8) as a point-of-care biomarker in periodontitis and cardiovascular diseases. Therapeutic response to non-antimicrobial properties of tetracyclines. <i>Pharmacological Research</i> , 2011, 63, 108-113.	7.1	116
7	Characterization of progressive periodontal lesions in chronic periodontitis patients: levels of chemokines, cytokines, matrix metalloproteinase-13, periodontal pathogens and inflammatory cells. <i>Journal of Clinical Periodontology</i> , 2008, 35, 206-214.	4.9	115
8	Matrix Metalloproteinase-13 Is Highly Expressed in Destructive Periodontal Disease Activity. <i>Journal of Periodontology</i> , 2006, 77, 1863-1870.	3.4	104
9	Matrix metalloproteinases and myeloperoxidase in gingival crevicular fluid provide site-specific diagnostic value for chronic periodontitis. <i>Journal of Clinical Periodontology</i> , 2014, 41, 348-356.	4.9	99
10	Levels of Interferon- γ and Transcription Factor T β in Progressive Periodontal Lesions in Patients With Chronic Periodontitis. <i>Journal of Periodontology</i> , 2009, 80, 290-296.	3.4	98
11	Associations Between Matrix Metalloproteinase-8 and -14 and Myeloperoxidase in Gingival Crevicular Fluid From Subjects With Progressive Chronic Periodontitis: A Longitudinal Study. <i>Journal of Periodontology</i> , 2010, 81, 1644-1652.	3.4	92
12	Proteolytic roles of matrix metalloproteinase (MMP)-13 during progression of chronic periodontitis: initial evidence for MMP-13/MMP-9 activation cascade. <i>Journal of Clinical Periodontology</i> , 2009, 36, 1011-1017.	4.9	84
13	Clinical Effects of <i>Lactobacillus rhamnosus</i> in Non-Surgical Treatment of Chronic Periodontitis: A Randomized Placebo-Controlled Trial With 1-Year Follow-Up. <i>Journal of Periodontology</i> , 2016, 87, 944-952.	3.4	75
14	Association of Endodontic Lesions with Coronary Artery Disease. <i>Journal of Dental Research</i> , 2016, 95, 1358-1365.	5.2	74
15	Diagnostic accuracy for apical and chronic periodontitis biomarkers in gingival crevicular fluid: an exploratory study. <i>Journal of Clinical Periodontology</i> , 2016, 43, 34-45.	4.9	72
16	<i>Treponema denticola</i> chymotrypsin-like proteinase may contribute to orodigestive carcinogenesis through immunomodulation. <i>British Journal of Cancer</i> , 2018, 118, 428-434.	6.4	71
17	A quantitative point-of-care test for periodontal and dental peri-implant diseases. <i>Nature Reviews Disease Primers</i> , 2017, 3, 17069.	30.5	70
18	Oral rinse MMP-8 point-of-care immuno test identifies patients with strong periodontal inflammatory burden. <i>Oral Diseases</i> , 2011, 17, 115-122.	3.0	69

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19	MMP activation in diagnostics of periodontitis and systemic inflammation. <i>Journal of Clinical Periodontology</i> , 2011, 38, 817-819.	4.9	65
20	High Expression Levels of Receptor Activator of Nuclear Factor-Kappa B Ligand Associated With Human Chronic Periodontitis Are Mainly Secreted by CD4+T Lymphocytes. <i>Journal of Periodontology</i> , 2006, 77, 1772-1780.	3.4	63
21	MMP-13 and TIMP-1 determinations in progressive chronic periodontitis. <i>Journal of Clinical Periodontology</i> , 2007, 34, 729-735.	4.9	61
22	Osteoimmunology of Oral and Maxillofacial Diseases: Translational Applications Based on Biological Mechanisms. <i>Frontiers in Immunology</i> , 2019, 10, 1664.	4.8	61
23	Interleukin-21 Expression and Its Association With Proinflammatory Cytokines in Untreated Chronic Periodontitis Patients. <i>Journal of Periodontology</i> , 2012, 83, 948-954.	3.4	57
24	Oxidative Stress in the Local and Systemic Events of Apical Periodontitis. <i>Frontiers in Physiology</i> , 2017, 8, 869.	2.8	55
25	Elevated Systemic Inflammatory Burden and Cardiovascular Risk in Young Adults with Endodontic Apical Lesions. <i>Journal of Endodontics</i> , 2019, 45, 111-115.	3.1	50
26	Reduced expression of lipopolysaccharide-induced CXC chemokine in <i>Porphyromonas gingivalis</i> -induced experimental periodontitis in matrix metalloproteinase-8 null mice. <i>Journal of Periodontal Research</i> , 2011, 46, 58-66.	2.7	44
27	Interleukin-35 inhibits alveolar bone resorption by modulating the Th17/Treg imbalance during periodontitis. <i>Journal of Clinical Periodontology</i> , 2020, 47, 676-688.	4.9	39
28	Gelatinolytic activity in gingival crevicular fluid from teeth with periapical lesions. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2008, 105, 801-806.	1.4	35
29	Zinc oxide and copper nanoparticles addition in universal adhesive systems improve interface stability on caries-affected dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103366.	3.1	33
30	Matrix metalloproteinases regulate extracellular levels of SDF-1/CXCL12, IL-6 and VEGF in hydrogen peroxide-stimulated human periodontal ligament fibroblasts. <i>Cytokine</i> , 2015, 73, 114-121.	3.2	31
31	Pro-oxidant status and matrix metalloproteinases in apical lesions and gingival crevicular fluid as potential biomarkers for asymptomatic apical periodontitis and endodontic treatment response. <i>Journal of Inflammation</i> , 2012, 9, 8.	3.4	30
32	dl-2-Hydroxyisocaproic Acid Attenuates Inflammatory Responses in a Murine <i>Candida albicans</i> Biofilm Model. <i>Vaccine Journal</i> , 2014, 21, 1240-1245.	3.1	30
33	Macrophages skew towards M1 profile through reduced CD163 expression in symptomatic apical periodontitis. <i>Clinical Oral Investigations</i> , 2020, 24, 4571-4581.	3.0	27
34	Serotype-dependent response of human dendritic cells stimulated with <i>Aggregatibacter actinomycetemcomitans</i> . <i>Journal of Clinical Periodontology</i> , 2014, 41, 242-251.	4.9	26
35	Oral extracellular vesicles in early pregnancy can identify patients at risk of developing gestational diabetes mellitus. <i>PLoS ONE</i> , 2019, 14, e0218616.	2.5	26
36	New insights of the local immune response against both fertile and infertile hydatid cysts. <i>PLoS ONE</i> , 2019, 14, e0211542.	2.5	26

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37	C-Reactive Protein Expression Is Up-regulated in Apical Lesions of Endodontic Origin in Association with Interleukin-6. <i>Journal of Endodontics</i> , 2015, 41, 464-469.	3.1	25
38	Diagnosis of Newly Delivered Mothers for Periodontitis with a Novel Oral-Rinse aMMP-8 Point-of-Care Test in a Rural Malawian Population. <i>Diagnostics</i> , 2018, 8, 67.	2.6	25
39	Early pregnancy levels of gingival crevicular fluid matrix metalloproteinases 8 and 9 are associated with the severity of periodontitis and the development of gestational diabetes mellitus. <i>Journal of Periodontology</i> , 2021, 92, 205-215.	3.4	25
40	Systemic and Extraradicular Bacterial Translocation in Apical Periodontitis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 649925.	3.9	25
41	Molecular signatures of extracellular vesicles in oral fluids of periodontitis patients. <i>Oral Diseases</i> , 2020, 26, 1318-1325.	3.0	24
42	<i>Treponema denticola</i> chymotrypsin-like proteinase is present in early-stage mobile tongue squamous cell carcinoma and related to the clinicopathological features. <i>Journal of Oral Pathology and Medicine</i> , 2018, 47, 764-772.	2.7	22
43	Interferon- β , Interleukins-6 and -4, and Factor XIII-A as Indirect Markers of the Classical and Alternative Macrophage Activation Pathways in Chronic Periodontitis. <i>Journal of Periodontology</i> , 2014, 85, 751-760.	3.4	21
44	Expression of Toll-like receptors 2 and 4 and its association with matrix metalloproteinases in symptomatic and asymptomatic apical periodontitis. <i>Clinical Oral Investigations</i> , 2019, 23, 4205-4212.	3.0	21
45	Bone resorptive activity in symptomatic and asymptomatic apical lesions of endodontic origin. <i>Clinical Oral Investigations</i> , 2017, 21, 2613-2618.	3.0	20
46	Capsular defective <i>Porphyromonas gingivalis</i> mutant strains induce less alveolar bone resorption than W50 wild-type strain due to a decreased Th1/Th17 immune response and less osteoclast activity. <i>Journal of Periodontology</i> , 2019, 90, 522-534.	3.4	20
47	Chemokine Monocyte Chemoattractant Protein-3 in Progressive Periodontal Lesions in Patients With Chronic Periodontitis. <i>Journal of Periodontology</i> , 2010, 81, 267-276.	3.4	19
48	Levels of Interleukin-21 in Patients With Untreated Chronic Periodontitis. <i>Journal of Periodontology</i> , 2011, 82, 1483-1489.	3.4	19
49	Inflammatory biomarkers in dentinal fluid as an approach to molecular diagnostics in pulpitis. <i>International Endodontic Journal</i> , 2020, 53, 1181-1191.	5.0	19
50	Matrix metalloproteinase-8 regulates transforming growth factor- β 1 levels in mouse tongue wounds and fibroblasts in vitro. <i>Experimental Cell Research</i> , 2014, 328, 217-227.	2.6	18
51	H ₂ O ₂ activates matrix metalloproteinases through the nuclear factor kappa B pathway and C ²⁺ signals in human periodontal fibroblasts. <i>Journal of Periodontal Research</i> , 2015, 50, 798-806.	2.7	18
52	<i>Echinococcus granulosus</i> hydatid cyst location is modified by <i>Fasciola hepatica</i> infection in cattle. <i>Parasites and Vectors</i> , 2018, 11, 542.	2.5	18
53	First description of <i>Echinococcus ortleppi</i> and cystic echinococcosis infection status in Chile. <i>PLoS ONE</i> , 2018, 13, e0197620.	2.5	18
54	Boldine inhibits the alveolar bone resorption during ligature-induced periodontitis by modulating the Th17/Treg imbalance. <i>Journal of Periodontology</i> , 2021, 92, 123-136.	3.4	18

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55	Periodontitis and placental growth factor in oral fluids are early pregnancy predictors of gestational diabetes mellitus. <i>Journal of Periodontology</i> , 2018, 89, 1052-1060.	3.4	17
56	High Levels of CXC Ligand 12/Stromal Cell-derived Factor 1 in Apical Lesions of Endodontic Origin Associated with Mast Cell Infiltration. <i>Journal of Endodontics</i> , 2013, 39, 1234-1239.	3.1	16
57	Periodontitis and Gestational Diabetes Mellitus: A Potential Inflammatory Vicious Cycle. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11831.	4.1	16
58	Is there a link between influenza and type I diabetes? Increased incidence of T1D during the pandemic H1N1 influenza of 2009 in Chile. <i>Pediatric Endocrinology Reviews</i> , 2013, 11, 161-6.	1.2	16
59	Human periodontal ligament fibroblasts synthesize C-reactive protein and Th-related cytokines in response to interleukin (IL)-6 transsignalling. <i>International Endodontic Journal</i> , 2018, 51, 632-640.	5.0	14
60	Vascular Endothelial Growth Factor: A Translational View in Oral Non-Communicable Diseases. <i>Biomolecules</i> , 2021, 11, 85.	4.0	14
61	Adjunctive Effects of a Sub-Antimicrobial Dose of Doxycycline on Clinical Parameters and Potential Biomarkers of Periodontal Tissue Catabolism. <i>Dentistry Journal</i> , 2019, 7, 9.	2.3	13
62	Lymphocyte Populations in the Adventitial Layer of Hydatid Cysts in Cattle: Relationship With Cyst Fertility Status and <i>Fasciola Hepatica</i> Co-Infection. <i>Veterinary Pathology</i> , 2020, 57, 108-114.	1.7	13
63	Active MMP-8 Quantitative Test as an Adjunctive Tool for Early Diagnosis of Periodontitis. <i>Diagnostics</i> , 2021, 11, 1503.	2.6	13
64	Levels of the interleukins 17A, 22, and 23 and the S100 protein family in the gingival crevicular fluid of psoriatic patients with or without periodontitis. <i>Anais Brasileiros De Dermatologia</i> , 2021, 96, 163-170.	1.1	12
65	Monocyte chemotactic protein-3: possible involvement in apical periodontitis chemotaxis. <i>International Endodontic Journal</i> , 2010, 43, 902-908.	5.0	11
66	Anti-inflammatory effect of salt water and chlorhexidine 0.12% mouthrinse after periodontal surgery: a randomized prospective clinical study. <i>Clinical Oral Investigations</i> , 2021, 25, 4349-4357.	3.0	11
67	CpG Single-Site Methylation Regulates TLR2 Expression in Proinflammatory PBMCs From Apical Periodontitis Individuals. <i>Frontiers in Immunology</i> , 2022, 13, 861665.	4.8	11
68	Genetic Variation on the <i>BAT1-NFKBIL1-LTA</i> Region of Major Histocompatibility Complex Class III Associates with Periodontitis. <i>Infection and Immunity</i> , 2014, 82, 1939-1948.	2.2	10
69	Gingival Crevicular Fluid Zinc- and Aspartyl-Binding Protease Profile of Individuals with Moderate/Severe Atopic Dermatitis. <i>Biomolecules</i> , 2020, 10, 1600.	4.0	10
70	Epigenetic regulation of TLR2-mediated periapical inflammation. <i>International Endodontic Journal</i> , 2020, 53, 1229-1237.	5.0	10
71	Cattle co-infection of <i>Echinococcus granulosus</i> and <i>Fasciola hepatica</i> results in a different systemic cytokine profile than single parasite infection. <i>PLoS ONE</i> , 2020, 15, e0238909.	2.5	9
72	Identification of IL-18 and Soluble Cell Adhesion Molecules in the Gingival Crevicular Fluid as Novel Biomarkers of Psoriasis. <i>Life</i> , 2021, 11, 1000.	2.4	8

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73	Polarization Profiles of T Lymphocytes and Macrophages Responses in Periodontitis. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 195-208.	1.6	8
74	MMP-8, TRAP-5, and OPG Levels in GCF Diagnostic Potential to Discriminate between Healthy Patientsâ€™, Mild and Severe Periodontitis Sites. <i>Biomolecules</i> , 2020, 10, 1500.	4.0	7
75	Response patterns in adventitial layer of <i>Echinococcus granulosus sensu stricto</i> cysts from naturally infected cattle and sheep. <i>Veterinary Research</i> , 2021, 52, 66.	3.0	7
76	Systemic burden and cardiovascular risk to <i>Porphyromonas</i> species in apical periodontitis. <i>Clinical Oral Investigations</i> , 2022, 26, 993-1001.	3.0	7
77	In vitro microbiological analysis on antibacterial, anti-inflammatory, and inhibitory action on matrix metalloproteinases-8 of commercially available chlorhexidine digluconate mouth rinses. <i>Indian Journal of Dental Research</i> , 2018, 29, 799.	0.4	6
78	Host-derived biomarkers in gingival crevicular fluid for complementary diagnosis of apical periodontitis. <i>World Journal of Stomatology</i> , 2014, 3, 19.	0.5	6
79	Oral fluid matrix metalloproteinase (MMP)-8 as a diagnostic tool in chronic periodontitis. <i>Metalloproteinases in Medicine</i> , 0, , 11.	1.0	5
80	<i>Fasciola hepatica</i> coinfection modifies the morphological and immunological features of <i>Echinococcus granulosus</i> cysts in cattle. <i>Veterinary Research</i> , 2020, 51, 76.	3.0	5
81	Gingival Crevicular Placental Alkaline Phosphatase Is an Early Pregnancy Biomarker for Pre-Eclampsia. <i>Diagnostics</i> , 2021, 11, 661.	2.6	5
82	Assessment of Cardiovascular Risk in Women with Periodontal Diseases According to C-reactive Protein Levels. <i>Biomolecules</i> , 2021, 11, 1238.	4.0	5
83	Efecto clÃnico del uso de probiÃtico en el tratamiento de la periodontitis crÃnica: ensayo clÃnico. <i>Revista ClÃnica De Periodoncia ImplantologÃa Y RehabilitaciÃn Oral</i> , 2016, 9, 146-152.	0.1	4
84	Comparative Study of the Minichromosome Maintenance Proteins Complex (MCM 4/5/6) in Ameloblastoma and Unicystic Ameloblastoma. <i>International Journal of Surgical Pathology</i> , 2018, 26, 714-720.	0.8	4
85	A universal dental adhesive containing copper nanoparticles stabilizes the hybrid layer in eroded dentin after 1 year. <i>International Journal of Adhesion and Adhesives</i> , 2021, , 103041.	2.9	4
86	Distribution of biopsied non plaque-induced gingival lesions in a Chilean population according to the classification of periodontal diseases. <i>BMC Oral Health</i> , 2018, 18, 112.	2.3	3
87	Healthy Dietary Patterns on Clinical Periodontal Parameters: A GRADE Compliant Systematic Review and Meta-analysis. <i>Current Oral Health Reports</i> , 2022, 9, 32-55.	1.6	3
88	InmunodetecciÃn de metaloproteinasas de matriz extracelular (MMPs)-2, -9, -13 y -14 en lesiones apicales asociadas con periodontitis apical asintomÃtica. <i>Revista ClÃnica De Periodoncia ImplantologÃa Y RehabilitaciÃn Oral</i> , 2011, 4, 17-21.	0.1	2
89	Levels of Myeloperoxidase and Metalloproteinase-9 in Gingival Crevicular Fluid from Diabetic Subjects with and without Stage 2, Grade B Periodontitis. <i>BioMed Research International</i> , 2019, 2019, 1-8.	1.9	2
90	Localization of interleukin-6 signaling complex in epithelialized apical lesions of endodontic origin. <i>Clinical Oral Investigations</i> , 2021, 25, 4075-4083.	3.0	2

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91	Dysregulated healing response participates in the pathophysiology of temporomandibular joint ankylosis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2021, 49, 592-597.	1.7	2
92	Expression of hMLH1 and hMSH2 proteins in ameloblastomas and tooth germs. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2018, 23, 0-0.	1.7	2
93	Effect of TLR9 methylation on its transcription in apical inflammation. <i>International Endodontic Journal</i> , 2022, , .	5.0	2
94	Components of Host Response to Pathogenic Bacteria in Gingivitis. , 0, , .		1
95	Osteoarthritis of the Temporomandibular Joint: Clinical and Imagenological Diagnosis, Pathogenic Role of the Immuno- Inflammatory Response, and Immunotherapeutic Strategies Based on T Regulatory Lymphocytes. , 2018, , .		1
96	Inhibitory effect of serotype a of <i>Aggregatibacter actinomycetemcomitans</i> on the increased destructive potential of serotype b. <i>Oral Diseases</i> , 2020, 26, 409-418.	3.0	1
97	<i>Fasciola hepatica</i> co-infection enhances Th1 immune response in the adventitial layer of non-fertile <i>Echinococcus granulosus</i> cysts. <i>Veterinary Parasitology</i> , 2021, 290, 109343.	1.8	1
98	Análisis de MMPs en fluidos orales en el diagnóstico complementario de las enfermedades periodontales. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2012, 5, 150-153.	0.1	1
99	Caracterización de Perfiles Proteicos y Peptídicos en Periodontitis Crónica. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2008, 1, 53-56.	0.1	0
100	Expresión de Factor Estimulante de Colonias-1 (CSF-1) y Catepsina-K en Lesiones Periapicales. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2009, 2, 179-181.	0.1	0
101	Expresión de Formas Solubles de MMP-14 y CXCL12 en Periodontitis Crónica Progresiva. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2009, 2, 46-49.	0.1	0
102	Efecto del Tratamiento Periodontal no Quirúrgico en los Niveles de MMP-2 y TIMP-2 en Periodontitis Crónica. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2009, 2, 68-72.	0.1	0
103	Temporomandibular joint Ankylosis: A Clinical Study. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 1359.	1.5	0
104	Morphologic characterization of temporomandibular joint ankylosis. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 1170.	1.5	0
105	Inmunodetección de metaloproteinasas de matriz extracelular (MMPs)-2, -9, -13 y -14 en lesiones apicales asociadas con periodontitis apical asintomática. <i>Revista Clínica De Periodoncia Implantología Y Rehabilitación Oral</i> , 2011, 4, 17-21.	0.1	0