Marta Revilla-LeÃ³n

List of Publications by Year
in descending order

124	3,222	172207	189595
papers	citations	29	50
		h-index	g-index

124	124	124	1250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Additive Manufacturing Technologies Used for Processing Polymers: Current Status and Potential Application in Prosthetic Dentistry. Journal of Prosthodontics, 2019, 28, 146-158.	1.7	278
2	Intraoral digital scansâ€"Part 1: Influence of ambient scanning light conditions on the accuracy (trueness and precision) of different intraoral scanners. Journal of Prosthetic Dentistry, 2020, 124, 372-378.	1.1	158
3	Clinical Study of the Influence of Ambient Light Scanning Conditions on the Accuracy (Trueness and) Tj ETQq1 1 0.784314 rgBT /Overl	1.7	142
4	3D printing parameters, supporting structures, slicing, and post-processing procedures of vat-polymerization additive manufacturing technologies: A narrative review. Journal of Dentistry, 2021, 109, 103630.	1.7	141
5	A review on chemical composition, mechanical properties, and manufacturing work flow of additively manufactured current polymers for interim dental restorations. Journal of Esthetic and Restorative Dentistry, 2019, 31, 51-57.	1.8	115
6	The potential of additive manufacturing technologies and their processing parameters for the fabrication of allâ€ceramic crowns: A review. Journal of Esthetic and Restorative Dentistry, 2020, 32, 182-192.	1.8	90
7	A Review of the Applications of Additive Manufacturing Technologies Used to Fabricate Metals in Implant Dentistry. Journal of Prosthodontics, 2020, 29, 579-593.	1.7	73
8	Analysis of Different Illuminance of the Room Lighting Condition on the Accuracy (Trueness and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.7	72
9	An update on applications of 3D printing technologies used for processing polymers used in implant dentistry. Odontology / the Society of the Nippon Dental University, 2020, 108, 331-338.	0.9	70
10	Comparison of conventional, photogrammetry, and intraoral scanning accuracy of complete-arch implant impression procedures evaluated with a coordinate measuring machine. Journal of Prosthetic Dentistry, 2021, 125, 470-478.	1.1	66
11	Internal and marginal discrepancies associated with stereolithography (SLA) additively manufactured zirconia crowns. Journal of Prosthetic Dentistry, 2020, 124, 730-737.	1.1	61
12	Influence of ambient temperature changes on intraoral scanning accuracy. Journal of Prosthetic Dentistry, 2023, 130, 755-760.	1.1	60
13	Digital workflow for an esthetic rehabilitation using a facial and intraoral scanner and an additive manufactured silicone index: A dental technique. Journal of Prosthetic Dentistry, 2020, 123, 564-570.	1.1	59
14	Additive Manufacturing Technologies Used for 3D Metal Printing in Dentistry. Current Oral Health Reports, 2017, 4, 201-208.	0.5	58
15	Intraoral digital scans: Part 2â€"influence of ambient scanning light conditions on the mesh quality of different intraoral scanners. Journal of Prosthetic Dentistry, 2020, 124, 575-580.	1.1	57
16	Artificial intelligence applications in implant dentistry: AÂsystematic review. Journal of Prosthetic Dentistry, 2023, 129, 293-300.	1.1	56
17	Flexural strength and Weibull characteristics of stereolithography additive manufactured versus milled zirconia. Journal of Prosthetic Dentistry, 2021, 125, 685-690.	1.1	54
18	Accuracy (trueness and precision) of a dual-structured light facial scanner and interexaminer reliability. Journal of Prosthetic Dentistry, 2020, 124, 567-574.	1.1	51

#	Article	IF	Citations
19	Discrepancy of complete-arch titanium frameworks manufactured using selective laser melting and electron beam melting additive manufacturing technologies. Journal of Prosthetic Dentistry, 2018, 120, 942-947.	1.1	46
20	Digital tools and 3D printing technologies integrated into the workflow of restorative treatment: A clinical report. Journal of Prosthetic Dentistry, 2019, 121, 3-8.	1.1	46
21	Additive Manufacturing Technologies: Current Status and Future Perspectives. Journal of Prosthodontics, 2022, 31, 4-12.	1.7	42
22	Position Accuracy of Implant Analogs on 3D Printed Polymer versus Conventional Dental Stone Casts Measured Using a Coordinate Measuring Machine. Journal of Prosthodontics, 2018, 27, 560-567.	1.7	41
23	Color dimensions of additive manufactured interim restorative dental material. Journal of Prosthetic Dentistry, 2020, 123, 754-760.	1.1	39
24	Fracture Resistance of Additively Manufactured Zirconia Crowns when Cemented to Implant Supported Zirconia Abutments: An in vitro Study. Journal of Prosthodontics, 2019, 28, 893-897.	1.7	38
25	Metal additive manufacturing technologies: literature review of current status and prosthodontic applications. International Journal of Computerized Dentistry, 2019, 22, 55-67.	0.2	37
26	Techniques to improve the accuracy of complete arch implant intraoral digital scans: A systematic review. Journal of Prosthetic Dentistry, 2023, 129, 844-854.	1.1	36
27	Influence of ambient light conditions on the accuracy and scanning time of seven intraoral scanners in complete-arch implant scans. Journal of Dentistry, 2022, 121, 104138.	1.7	34
28	Artificial intelligence models for tooth-supported fixed and removable prosthodontics: A systematic review. Journal of Prosthetic Dentistry, 2023, 129, 276-292.	1.1	32
29	Impression technique for a complete-arch prosthesis with multiple implants using additive manufacturing technologies. Journal of Prosthetic Dentistry, 2017, 117, 714-720.	1.1	31
30	Influence of rescanning mesh holes and stitching procedures on the complete-arch scanning accuracy of an intraoral scanner: An in vitro study. Journal of Dentistry, 2021, 110, 103690.	1.7	31
31	Influence of scan body design and digital implant analogs on implant replica position in additively manufactured casts. Journal of Prosthetic Dentistry, 2020, 124, 202-210.	1.1	29
32	Artificial intelligence models for diagnosing gingivitis and periodontal disease: A systematic review. Journal of Prosthetic Dentistry, 2023, 130, 816-824.	1.1	29
33	Artificial intelligence applications in restorative dentistry: A systematic review. Journal of Prosthetic Dentistry, 2022, 128, 867-875.	1.1	28
34	Digital workflow for the design and additively manufacture of a splinted framework and custom tray for the impression of multiple implants: A dental technique. Journal of Prosthetic Dentistry, 2018, 120, 805-811.	1.1	25
35	Intraoral scanners. Journal of the American Dental Association, 2021, 152, 669-670.e2.	0.7	25
36	The Flexural Strength and Flexural Modulus of Stereolithography Additively Manufactured Zirconia with Different Porosities. Journal of Prosthodontics, 2022, 31, 434-440.	1.7	25

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37	Influence of definitive and interim restorative materials and surface finishing on the scanning accuracy of an intraoral scanner. Journal of Dentistry, 2022, 120, 104114.	1.7	25
38	Facially generated and additively manufactured baseplate and occlusion rim for treatment planning a complete-arch rehabilitation: A dental technique. Journal of Prosthetic Dentistry, 2019, 121, 741-745.	1.1	24
39	Chemical Composition, Knoop Hardness, Surface Roughness, and Adhesion Aspects of Additively Manufactured Dental Interim Materials. Journal of Prosthodontics, 2021, 30, 698-705.	1.7	24
40	Manufacturing accuracy and volumetric changes of stereolithography additively manufactured zirconia with different porosities. Journal of Prosthetic Dentistry, 2022, 128, 211-215.	1.1	24
41	Facial scanning accuracy depending on the alignment algorithm and digitized surface area location: An in vitro study. Journal of Dentistry, 2021, 110, 103680.	1.7	24
42	Influence of rescanning mesh holes on the accuracy of an intraoral scanner: An in vivo study. Journal of Dentistry, 2021, 115, 103851.	1.7	24
43	Influence of the Rinsing Postprocessing Procedures on the Manufacturing Accuracy of Vat‐Polymerized Dental Model Material. Journal of Prosthodontics, 2021, 30, 610-616.	1.7	23
44	Trueness and precision of complete-arch photogrammetry implant scanning assessed with a coordinate-measuring machine. Journal of Prosthetic Dentistry, 2023, 129, 160-165.	1.1	23
45	Influence of the Number of Teeth and Location of the Virtual Occlusal Record on the Accuracy of the Maxillo‐Mandibular Relationship Obtained by Using An Intraoral Scanner. Journal of Prosthodontics, 2023, 32, 253-258.	1.7	23
46	Workflow description of additively manufactured clear silicone indexes for injected provisional restorations: A novel technique. Journal of Esthetic and Restorative Dentistry, 2019, 31, 213-221.	1.8	22
47	Chemical composition, surface roughness, and ceramic bond strength of additively manufactured cobalt-chromium dental alloys. Journal of Prosthetic Dentistry, 2021, 125, 825-831.	1.1	22
48	Influence of postpolymerization methods and artificial aging procedures on the fracture resistance and flexural strength of a vat-polymerized interim dental material. Journal of Prosthetic Dentistry, 2022, 128, 1085-1093.	1.1	22
49	Clinical evaluation of the effects of cutting off, overlapping, and rescanning procedures on intraoral scanning accuracy. Journal of Prosthetic Dentistry, 2023, 130, 746-754.	1.1	21
50	Best‐Fit Algorithm Influences on Virtual Casts' Alignment Discrepancies. Journal of Prosthodontics, 2023, 32, 331-339.	1.7	21
51	Facially Driven Digital Diagnostic Waxing: New Software Features to Simulate and Define Restorative Outcomes. Current Oral Health Reports, 2019, 6, 284-294.	0.5	20
52	Reducing the Risk of COVID‐19 Transmission in Dental Offices: A Review. Journal of Prosthodontics, 2020, 29, 739-745.	1.7	20
53	Influence of printing angulation on the surface roughness of additive manufactured clear silicone indices: An in vitro study. Journal of Prosthetic Dentistry, 2021, 125, 462-468.	1.1	19
54	Fracture resistance of additive manufactured and milled implant-supported interim crowns. Journal of Prosthetic Dentistry, 2022, 127, 267-274.	1.1	19

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55	Accuracy of a patient 3-dimensional virtual representation obtained from the superimposition of facial and intraoral scans guided by extraoral and intraoral scan body systems. Journal of Prosthetic Dentistry, 2022, 128, 984-993.	1.1	19
56	Discrepancy at the implant abutment-prosthesis interface of complete-arch cobalt-chromium implant frameworks fabricated by additive and subtractive technologies before and after ceramic veneering. Journal of Prosthetic Dentistry, 2021, 125, 795-803.	1.1	19
57	2D and 3D patient's representation of simulated restorative esthetic outcomes using different computerâ€aided design software programs. Journal of Esthetic and Restorative Dentistry, 2021, 33, 143-151.	1.8	19
58	Chemical Composition and Flexural Strength Discrepancies Between Milled and Lithographyâ€Based Additively Manufactured Zirconia. Journal of Prosthodontics, 2022, 31, 778-783.	1.7	19
59	Additive manufacturing technologies for processing zirconia in dental applications. International Journal of Computerized Dentistry, 2020, 23, 27-37.	0.2	19
60	Influence of the implant scan body bevel location, implant angulation and position on intraoral scanning accuracy: An in vitro study. Journal of Dentistry, 2022, 121, 104122.	1.7	19
61	Influence of scan body design on accuracy of the implant position as transferred to a virtual definitive implant cast. Journal of Prosthetic Dentistry, 2021, 125, 918-923.	1.1	18
62	Implant-Prosthodontic Discrepancy of Complete-Arch Cobalt-Chromium Implant Frameworks Manufactured Through Selective Laser Melting Additive Manufacturing Technology Using a Coordinate Measuring Machine. International Journal of Oral and Maxillofacial Implants, 2019, 34, 698-707.	0.6	17
63	Clinical Study of the Influence of Ambient Lighting Conditions on the Mesh Quality of an Intraoral Scanner. Journal of Prosthodontics, 2020, 29, 651-655.	1.7	17
64	Maxillary zirconia and mandibular composite resin-lithium disilicateâ€"modified PEEK fixed implant-supported restorations for a completely edentulous patient with an atrophic maxilla and mandible: A clinical report. Journal of Prosthetic Dentistry, 2020, 124, 403-410.	1.1	16
65	Impact of the ambient light illuminance conditions on the shade matching capabilities of an intraoral scanner. Journal of Esthetic and Restorative Dentistry, 2021, 33, 906-912.	1.8	15
66	Scanning accuracy of nondental structured light extraoral scanners compared with that of a dental-specific scanner. Journal of Prosthetic Dentistry, 2021, 126, 110-114.	1.1	15
67	Additive Manufacturing in Dentistry: Current Technologies, Clinical Applications, and Limitations. Current Oral Health Reports, 2020, 7, 327-334.	0.5	15
68	Adhesion of veneering porcelain to cobalt-chromium dental alloys processed with casting, milling, and additive manufacturing methods: A systematic review and meta-analysis. Journal of Prosthetic Dentistry, 2022, 128, 575-588.	1.1	15
69	Three-dimensional virtual representation by superimposing facial and intraoral digital scans with an additively manufactured intraoral scan body. Journal of Prosthetic Dentistry, 2021, 126, 459-463.	1.1	14
70	A vat-polymerized 3-dimensionally printed dual-material occlusal device: A dental technique. Journal of Prosthetic Dentistry, 2021, 126, 271-275.	1.1	14
71	Digitally Created 3â€Piece Additive Manufactured Index for Direct Esthetic Treatment. Journal of Prosthodontics, 2020, 29, 436-442.	1.7	14
72	Workflow of a fiber-reinforced composite fixed dental prosthesis by using a 4-piece additive manufactured silicone index: A dental technique. Journal of Prosthetic Dentistry, 2021, 125, 569-575.	1.1	14

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73	Surface roughness and shear bond strength to composite resin of additively manufactured interim restorative material with different printing orientations. Journal of Prosthetic Dentistry, 2023, 129, 788-795.	1.1	14
74	3D Metal Printing - Additive Manufacturing Technologies for Frameworks of Implant-Borne Fixed Dental Prosthesis. European journal of prosthodontics and restorative dentistry, The, 2017, 25, 143-147.	0.3	14
75	Influence of implant angulation and clinical implant scan body height on the accuracy of complete arch intraoral digital scans. Journal of Prosthetic Dentistry, 2024, 131, 119-127.	1.1	12
76	Esthetic dental perception comparisons between 2D- and 3D-simulated dental discrepancies. Journal of Prosthetic Dentistry, 2020, 124, 763-773.	1.1	11
77	Accuracy, scanning time, and number of photograms of various scanning patterns for the extraoral digitalization of complete dentures by using an intraoral scanner. Journal of Prosthetic Dentistry, 2024, 131, 521-528.	1.1	11
78	Influence of postprocessing rinsing solutions and duration on flexural strength of aged and nonaged additively manufactured interim dental material. Journal of Prosthetic Dentistry, 2022, , .	1.1	11
79	Effect of implant scan body geometric modifications on the trueness and scanning time of complete arch intraoral implant digital scans: An inÂvitro study. Journal of Prosthetic Dentistry, 2022, , .	1.1	10
80	Perception of occlusal plane that is nonparallel to interpupillary and commissural lines but with the maxillary dental midline ideally positioned. Journal of Prosthetic Dentistry, 2019, 122, 482-490.	1.1	9
81	Laboratory workflow to obtain longâ€term injected resin composite interim restorations from an additive manufactured esthetic diagnostic template. Journal of Esthetic and Restorative Dentistry, 2019, 31, 13-19.	1.8	9
82	Accuracy of the Implant Replica Positions on the Complete Edentulous Additive Manufactured Cast. Journal of Prosthodontics, 2020, 29, 780-786.	1.7	9
83	Effect of fluorescent and nonfluorescent glaze pastes on lithium disilicate pressed ceramic color at different thicknesses. Journal of Prosthetic Dentistry, 2021, 125, 932-939.	1.1	9
84	Accuracy of the 3-dimensional virtual patient representation obtained by using 4 different techniques: An inÂvitro study. Journal of Prosthetic Dentistry, 2022, , .	1.1	9
85	An additively manufactured intraoral scan body for aiding complete-arch intraoral implant digital scans with guided integration of 3D virtual representation. Journal of Prosthetic Dentistry, 2022, 127, 38-43.	1.1	8
86	The Fracture Resistance of Additively Manufactured Monolithic Zirconia vs. Bi-Layered Alumina Toughened Zirconia Crowns When Cemented to Zirconia Abutments. Evaluating the Potential of 3D Printing of Ceramic Crowns: An In Vitro Study. Dentistry Journal, 2021, 9, 115.	0.9	8
87	Influence of the base design on the accuracy of additive manufactured casts measured using a coordinate measuring machine. Journal of Prosthodontic Research, 2022, 66, 68-74.	1.1	7
88	Surface Roughness and Bond Strength of Resin Composite to Additively Manufactured Zirconia with Different Porosities. Journal of Prosthodontics, 2022, 31, 97-104.	1.7	7
89	Silicone Additive Manufactured Indices Performed from a Virtual Diagnostic Waxing for Direct Composite Diastema Closure Combined with Resin Infiltration Technique on White Spot Lesions: A Case Report. Journal of Prosthodontics, 2019, 28, 855-860.	1.7	6
90	Additively manufactured scan body for transferring a virtual 3-dimensional representation to a digital articulator for completely edentulous patients. Journal of Prosthetic Dentistry, 2022, 128, 1171-1178.	1.1	6

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91	Marginal and Internal Gap of Handmade, Milled and 3D Printed Additive Manufactured Patterns for Pressed Lithium Disilicate Onlay Restorations. European journal of prosthodontics and restorative dentistry, The, 2018, 26, 31-38.	0.3	6
92	Layperson and Dental Professional Perception When Evaluating Their Own Virtually 2D or 3D Simulated Esthetic Discrepancies. Journal of Prosthodontics, 2020, 29, 466-471.	1.7	5
93	3D Virtual Patient Representation for Guiding a Maxillary Overdenture Fabrication: A Dental Technique. Journal of Prosthodontics, 2021, 30, 636-641.	1.7	5
94	Virtual 3-dimensional representation of a completely edentulous patient for computer-aided static implant planning. Journal of Prosthetic Dentistry, 2023, 129, 384-390.	1.1	5
95	Periodontal Behavior and Patient Satisfaction of Anterior Teeth Restored with Single Zirconia Crowns Using a Biologically Oriented Preparation Technique: A 6-Year Prospective Clinical Study. Journal of Clinical Medicine, 2021, 10, 3482.	1.0	5
96	An additively manufactured, magnetically retained, and stackable implant surgical guide: A dental technique. Journal of Prosthetic Dentistry, 2023, 130, 444-452.	1.1	5
97	Utilizing additively manufactured custom devices to record mandibular motion by using optical jaw tracking systems: A dental technique. Journal of Prosthetic Dentistry, 2022, , .	1.1	4
98	Scan body system to translate natural head position and virtual mounting into a 3-dimensional virtual patient: A dental technique. Journal of Prosthetic Dentistry, 2022, , .	1.1	4
99	Fiberâ€reinforced composite fixed dental prosthesis using an additive manufactured silicone index. Journal of Esthetic and Restorative Dentistry, 2020, 32, 626-633.	1.8	3
100	Prostheticallyâ€Driven Fullâ€Mouth Implantâ€Supported Prostheses Using Guided Surgical Implant Planning with Composite Resin Markers: A Case Report. Journal of Prosthodontics, 2021, 30, 561-568.	1.7	3
101	Influence of base design on the manufacturing accuracy of vat-polymerized diagnostic casts: An inÂvitro study. Journal of Prosthetic Dentistry, 2023, 129, 166-173.	1.1	3
102	Digital and Analog Vertical Dimension Measurements: A Clinical Observational Study. International Journal of Prosthodontics, 2021, 34, 419-427.	0.7	3
103	Transferring the tooth preparation finish line on intraoral digital scans to dental software programs: A dental technique. Journal of Prosthetic Dentistry, 2023, 130, 439-443.	1.1	3
104	Self-perception and self-representation preference between 2-dimensional and 3-dimensional facial reconstructions among dentists, dental students, and laypersons. Journal of Prosthetic Dentistry, 2022, 127, 911-917.	1.1	2
105	Fabricating a dual-material, vat-polymerized, additively manufactured static implant surgical guide: A dental technique. Journal of Prosthetic Dentistry, 2022, 128, 233-238.	1.1	2
106	Additively Manufactured Ingot for Interim Dental Restorations Fabrication Using a Chairside Milling Machine. Journal of Prosthodontics, 2021, 30, 540-543.	1.7	2
107	Additively Manufactured Dental Crown with Color Gradient and Graded Structure: A Technique Report. Journal of Prosthodontics, 2021, 30, 822-825.	1.7	2
108	Periodontal outcomes of anterior fixed partial dentures on teeth treated with the biologically oriented preparation technique: A 6-year prospective clinical trial. Journal of Prosthetic Dentistry, 2023, 129, 703-709.	1.1	2

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109	Techniques for locating the screw access hole in cement-retained implant-supported prostheses: A systematic review. Journal of Prosthetic Dentistry, 2023, 130, 48-58.	1.1	2
110	Additively Manufactured Scan Bodies for Virtual Patient Integration: Different Designs, Manufacturing Procedures, and Clinical Protocols. Journal of Prosthodontics, 2022, 31, 23-29.	1.7	2
111	Additively manufactured implant abutment screw-access guide to remove a cement-retained implant crown: A technique. Journal of Prosthetic Dentistry, 2022, 127, 219-222.	1.1	1
112	Response to the letter to the editor â€œComments on â€˜Artificial intelligence applications in restorative dentistry: A systematic reviewâ€™â€• Journal of Prosthetic Dentistry, 2022, 127, 197-198.	1.1	1
113	Two-layer additively manufactured crown: Proof of concept. Journal of Dentistry, 2021, 112, 103730.	1.7	1
114	New fabrication method using additive manufacturing technologies for the pattern of pressed lithium disilicate onlay restorations. Brazilian Dental Science, 2017, 20, 149.	0.1	1
115	A report on a diagnostic digital workflow for esthetic dental rehabilitation using additive manufacturing technologies. The International Journal of Esthetic Dentistry, 2018, 13, 184-196.	0.3	1
116	We Are A 3D Printing Generation. Journal of Prosthodontics, 2022, 31, 3-3.	1.7	1
117	Effect of milled and lithography-based additively manufactured zirconia (3Y-TZP) on the biological properties of human osteoblasts. Journal of Prosthetic Dentistry, 2022, , .	1.1	1
118	Implantâ€‘Abutment Discrepancy Before and After Acrylic Resin Veneering of Completeâ€‘Arch Titanium Frameworks Manufactured Using Milling and Electron Beam Melting Technologies. Journal of Prosthodontics, 2022, 31, 88-96.	1.7	1
119	Using an additively manufactured natural head position reference device to transfer the horizon orientation plane and integrate it with a 3-dimensional virtual patient: A dental technique. Journal of Prosthetic Dentistry, 2024, 131, 7-12.	1.1	1
120	Intraoral Digital Scans for Fabricating Toothâ€‘Supported Prostheses Using a Custom Intraoral Scan Body. Journal of Prosthodontics, 2021, , .	1.7	1
121	Two-piece magnet-retained shell manufactured by using milled and vat-polymerized methods for direct interim restorations. Journal of Prosthetic Dentistry, 2022, , .	1.1	1
122	Fabrication of a complete-arch implant-supported fixed interim prosthesis by using a cone beam computed tomography digital scan for a patient with primordial dwarfism: A dental technique. Journal of Prosthetic Dentistry, 2021, , .	1.1	0
123	Digital workflow for implant-supported fixed complete dentures based on backwards planning in an edentulous patient. International Journal of Computerized Dentistry, 2021, 24, 89-101.	0.2	0
124	Merging intraoral scans and CBCT: a novel technique for improving the accuracy of 3D digital models for implant-supported complete-arch fixed dental prostheses. International Journal of Computerized Dentistry, 2021, 24, 117-123.	0.2	0