Applications of polyetheretherketone (PEEK) in oral im

Journal of Prosthodontic Research
60, 12-19
DOI: 10.1016/j.jpor.2015.10.001

Citation Report

#	Article	IF	Citations
1	Immediate Implants: Clinical Guidelines for Esthetic Outcomes. Dentistry Journal, 2016, 4, 21.	2.3	17
2	Advances of Proteomic Sciences in Dentistry. International Journal of Molecular Sciences, 2016, 17, 728.	4.1	49
3	From Guided Surgery to Final Prosthesis with a Fully Digital Procedure: A Prospective Clinical Study on 15 Partially Edentulous Patients. International Journal of Dentistry, 2016, 2016, 1-7.	1.5	22
4	Modifications in Glass Ionomer Cements: Nano-Sized Fillers and Bioactive Nanoceramics. International Journal of Molecular Sciences, 2016, 17, 1134.	4.1	118
5	Potential of Electrospun Nanofibers for Biomedical and Dental Applications. Materials, 2016, 9, 73.	2.9	173
6	Spectrophotometric Evaluation of Polyetheretherketone (PEEK) as a Core Material and a Comparison with Gold Standard Core Materials. Materials, 2016, 9, 491.	2.9	13
7	Trueness and Precision of Four Intraoral Scanners in Oral Implantology: A Comparative in Vitro Study. PLoS ONE, 2016, 11, e0163107.	2.5	118
8	Effect of Different Cleaning Methods of Polyetheretherketone on Surface Roughness and Surface Free Energy Properties. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e248-e255.	1.6	9
9	The Role of Nutrition in Periodontal Health: An Update. Nutrients, 2016, 8, 530.	4.1	136
10	Therapeutic potential of melatonin in oral medicine and periodontology. Kaohsiung Journal of Medical Sciences, 2016, 32, 391-396.	1.9	32
11	Bioactivity and Osseointegration of PEEK Are Inferior to Those of Titanium: A Systematic Review. Journal of Oral Implantology, 2016, 42, 512-516.	1.0	98
12	Preparation and characterization of poly (ether ether ketone)s containing benzimidazolone units. Journal of Polymer Research, 2016, 23, 1.	2.4	6
13	Response of Human Osteoblast to n-HA/PEEKâ€"Quantitative Proteomic Study of Bio-effects of Nano-Hydroxyapatite Composite. Scientific Reports, 2016, 6, 22832.	3.3	31
14	Polyetheretherketone (PEEK) for medical applications. Journal of Materials Science: Materials in Medicine, 2016, 27, 118.	3.6	372
15	Poly(aryl ether ketone) composite membrane as a highâ€performance lithiumâ€ion batteries separator. Journal of Polymer Science Part A, 2016, 54, 2714-2721.	2.3	18
17	Evaluation of a variety of a-C:H coatings on PEEK for biomedical implants. Surface and Coatings Technology, 2017, 313, 96-106.	4.8	23
18	Reconstruction of Cranial Vault Defect with Polyetheretherketone Implants. World Neurosurgery, 2017, 105, 783-789.	1.3	35
19	Influences of surface treatments with abrasive paper and sand-blasting on surface morphology, hydrophilicity, mineralization and osteoblasts behaviors of n-CS/PK composite. Scientific Reports, 2017, 7, 568.	3.3	17

#	Article	IF	Citations
20	Outcomes of Dental Implant Therapy in Patients With Down Syndrome: A Systematic Review. Journal of Evidence-based Dental Practice, 2017, 17, 317-323.	1.5	12
21	Bisphosphonate releasing dental implant surface coatings and osseointegration: A systematic review. Journal of Taibah University Medical Sciences, 2017, 12, 369-375.	0.9	25
22	Ultraviolet-induced surface grafting of octafluoropentyl methacrylate on polyether ether ketone for inducing antibiofilm properties. Journal of Biomaterials Applications, 2017, 32, 3-11.	2.4	14
23	On stress/strain shielding and the material stiffness paradigm for dental implants. Clinical Implant Dentistry and Related Research, 2017, 19, 935-943.	3.7	22
24	Removable partial dentures: The clinical need for innovation. Journal of Prosthetic Dentistry, 2017, 118, 273-280.	2.8	139
25	Titanium alloy surface coatings using poly(sodium styrene sulfonate) and poly(acrylic acid). Bio-Medical Materials and Engineering, 2017, 27, 657-668.	0.6	0
26	The effects of magnetic field-enhanced thermal spraying on the friction and wear characteristics of poly(ether-ether-ketone) coatings. Wear, 2017, 372-373, 68-75.	3.1	8
27	Porous polyether ether ketone: A candidate for hard tissue implant materials. Materials and Design, 2017, 116, 171-175.	7.0	30
28	Advances in polymeric materials for dental applications. Polymer Chemistry, 2017, 8, 807-823.	3.9	101
29	Impact of the heating/quenching process on the mechanical, optical and thermodynamic properties of polyetheretherketone (PEEK) films. Dental Materials, 2017, 33, 1436-1444.	3.5	9
30	Regenerative Potential of Platelet Rich Fibrin (PRF) for Curing Intrabony Periodontal Defects: A Systematic Review of Clinical Studies. Tissue Engineering and Regenerative Medicine, 2017, 14, 735-742.	3.7	32
31	New Materials for Dental Implantology. Key Engineering Materials, 2017, 750, 189-194.	0.4	4
32	Current Options of Making Implant Supported Prosthetic Restorations to Mitigate the Impact of Occlusal Forces. Defect and Diffusion Forum, 2017, 376, 66-77.	0.4	5
33	Accuracy of four intraoral scanners in oral implantology: a comparative in vitro study. BMC Oral Health, 2017, 17, 92.	2.3	234
34	Different PEEK qualities irradiated with light of different wavelengths: Impact on Martens hardness. Dental Materials, 2017, 33, 968-975.	3.5	8
35	Three-dimensional analysis of marginal and internal fit of copings fabricated with polyetherketoneketone (PEKK) and zirconia. Journal of Prosthodontic Research, 2017, 61, 106-112.	2.8	45
36	Discoloration of PMMA, composite, and PEEK. Clinical Oral Investigations, 2017, 21, 1191-1200.	3.0	46
37	Biodegradation of anti -microbial titanium-magnesium-silver coatings on polyetheretherketone for bone-contact applications. Surface and Coatings Technology, 2017, 320, 503-511.	4.8	6

#	Article	IF	Citations
38	Research on the Preparation of HA/PEEK Gradient Composites by Impregnation Method and the Biosecurity. Materials Science Forum, 2017, 893, 35-42.	0.3	2
39	Load-Deflection and Friction Properties of PEEK Wires as Alternative Orthodontic Wires. Materials, 2017, 10, 914.	2.9	15
40	Bonding to Different PEEK Compositions: The Impact of Dental Light Curing Units. Materials, 2017, 10, 67.	2.9	14
41	Chitosan Biomaterials for Current and Potential Dental Applications. Materials, 2017, 10, 602.	2.9	163
42	Therapeutic applications of nanotechnology inÂdentistry. , 2017, , 833-862.		11
43	PEEK with Reinforced Materials and Modifications for Dental Implant Applications. Dentistry Journal, 2017, 5, 35.	2.3	110
44	Dental biocomposites. , 2017, , 65-84.		8
45	Comparison of osteogenic potential of poly-ether-ether-ketone with titanium-coated poly-ether-ether-ketone and titanium-blended poly-ether-ether-ketone: An in vitro study. Journal of Indian Prosthodontic Society, The, 2017, 17, 167.	1.0	9
46	Material Considerations for Full-Arch Implant-Supported Restorations. BDJ Clinician's Guides, 2018, , 189-211.	0.2	1
47	Biofunctional Mg coating on PEEK for improving bioactivity. Bioactive Materials, 2018, 3, 139-143.	15.6	44
48	The search and selection for primary studies in systematic reviews published in dental journals indexed in MEDLINE was not fully reproducible. Journal of Clinical Epidemiology, 2018, 98, 53-61.	5.0	31
50	Stimulation of cell responses and bone ingrowth into macro-microporous implants of nano-bioglass/polyetheretherketone composite and enhanced antibacterial activity by release of hinokitiol. Colloids and Surfaces B: Biointerfaces, 2018, 164, 347-357.	5.0	40
51	Wear of polyetherketoneketones â€" Influence of titanium dioxide content and antagonistic material. Dental Materials, 2018, 34, 560-567.	3.5	20
52	Lithium doped silica nanospheres/poly(dopamine) composite coating on polyetheretherketone to stimulate cell responses, improve bone formation and osseointegration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 965-976.	3.3	23
53	Effects of different sulfuric acid etching concentrations on PEEK surface bonding to resin composite. Dental Materials Journal, 2018, 37, 385-392.	1.8	52
54	Characterizing the differentiation of osteoprogenitor cells on surface modified polyether-ether-ketone. Surface and Coatings Technology, 2018, 350, 904-912.	4.8	9
55	Application of 2D correlation methods to the analysis of XPS spectra of ion irradiated poly (ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	16
56	Interim rehabilitation of occlusal vertical dimension using a double-crown-retained removable dental prosthesis with polyetheretherketone framework. Journal of Prosthetic Dentistry, 2018, 119, 315-318.	2.8	26

#	Article	IF	Citations
57	Effect of different restorative crown and customized abutment materials on stress distribution in single implants and peripheral bone: A three-dimensional finite element analysis study. Journal of Prosthetic Dentistry, 2018, 119, 437-445.	2.8	82
58	Impact of air-abrasion pressure and adhesive systems on bonding parameters for polyetheretherketone dental restorations. International Journal of Adhesion and Adhesives, 2018, 80, 30-38.	2.9	15
59	Preparation and properties of a novel, high-performance polyether ether ketone fabric. High Performance Polymers, 2018, 30, 794-802.	1.8	7
60	Screw extrusion-based additive manufacturing of PEEK. Materials and Design, 2018, 140, 209-221.	7.0	116
61	Polyetherketoneketone (PEKK), a framework material for complete fixed and removable dental prostheses: A clinical report. Journal of Prosthetic Dentistry, 2018, 119, 867-872.	2.8	40
62	Longâ€term stable hydrophilic surface modification of poly(ether ether ketone) via the multilayered chemical grafting method. Journal of Applied Polymer Science, 2018, 135, 46042.	2.6	13
63	Effect of crystalline phase changes in titania (TiO2) nanotube coatings on platelet adhesion and activation. Materials Science and Engineering C, 2018, 82, 91-101.	7.3	36
64	3D FEA study on: Implant Threading Role on Selection of Implant and Crown Materials. Open Access Macedonian Journal of Medical Sciences, 2018, 6, 1702-1706.	0.2	12
65	Synthesis and Characterization of Poly(ether ether ketone-co-benzimidazole)s Based on 2-(2'-Hydroxyphenyl) benzimidazole. Polymer Science - Series B, 2018, 60, 772-779.	0.8	0
66	Influence of Different CAD/CAM Crown Materials on the Fracture of Custom-Made Titanium and Zirconia Implant Abutments After Artificial Aging. International Journal of Prosthodontics, 2018, 32, 91-96.	1.7	14
68	Carboxylic acid-functionalized TiO₂ nanoparticle-loaded PMMA/PEEK copolymer matrix as a dental resin for 3D complete denture manufacturing by stereolitographic technique. International Journal of Food Properties, 2018, 21, 2557-2565.	3.0	21
69	Superficial Characteristics of Titanium after Treatment of Chorreated Surface, Passive Acid, and Decontamination with Argon Plasma. Journal of Functional Biomaterials, 2018, 9, 71.	4.4	8
70	Evaluation of the Cortical Deformation Induced by Distal Cantilevers Supported by Extra-Short Implants: A Finite Elements Analysis Study. Symmetry, 2018, 10, 762.	2.2	1
71	Quantitative proteomic analysis to the first commercialized liposomal paclitaxel nano-platform Lipusu revealed the molecular mechanism of the enhanced anti-tumor effect. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S147-S155.	2.8	7
72	Effect of Laser Therapy on the Osseointegration of Immediately Loaded Dental Implants in Patients under Vitamin C, Omega-3 and Calcium Therapy. Open Access Macedonian Journal of Medical Sciences, 2018, 6, 1468-1474.	0.2	16
73	Influence of laser structuring of PEEK, PEEK-GF30 and PEEK-CF30 surfaces on the shear bond strength to a resin cement. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 225-234.	3.1	31
74	Influence of different low-pressure plasma process parameters on shear bond strength between veneering composites and PEEK materials. Dental Materials, 2018, 34, e246-e254.	3.5	38
75	Enhanced Osteoblasts Responses to Surface-Sulfonated Polyetheretherketone via a Single-Step Ultraviolet-Initiated Graft Polymerization. Industrial & Engineering Chemistry Research, 2018, 57, 10403-10410.	3.7	31

#	Article	IF	Citations
76	Characterizing Ultrasonic Micro-Molding Process of Polyetheretherketone (PEEK). International Polymer Processing, 2018, 33, 442-452.	0.5	16
77	Single-Phase, Antibacterial Trimagnesium Phosphate Hydrate Coatings on Polyetheretherketone (PEEK) Implants by Rapid Microwave Irradiation Technique. ACS Biomaterials Science and Engineering, 2018, 4, 2767-2783.	5.2	44
78	Inflammatory cytokine release from human peripheral blood mononuclear cells exposed to polyetheretherketone and titanium-6 aluminum-4 vanadium in vitro. Journal of Biomaterials Applications, 2018, 33, 245-258.	2.4	12
80	PEKK-made indirect temporary crowns and bridges: a clinical pilot study. Clinical Oral Investigations, 2019, 23, 771-777.	3.0	24
81	Effects of sulfuric and vinyl sulfonic acid etchants on bond strength of resin composite to polyetherketoneketone. Odontology / the Society of the Nippon Dental University, 2019, 107, 158-164.	1.9	15
82	Effect of Surface Treatments on Shear Bond Strength of Polyetheretherketone to Autopolymerizing Resin. Dentistry Journal, 2019, 7, 82.	2.3	26
83	Evaluation of Fracture Resistance and Microleakage of Endocrowns with Different Intracoronal Depths and Restorative Materials Luted with Various Resin Cements. Materials, 2019, 12, 2528.	2.9	31
84	Biomaterial and biomechanical considerations to prevent risks in implant therapy. Periodontology 2000, 2019, 81, 139-151.	13.4	27
85	A review of biomimetic surface functionalization for bone-integrating orthopedic implants: Mechanisms, current approaches, and future directions. Progress in Materials Science, 2019, 106, 100588.	32.8	147
86	Predictability of Microbial Adhesion to Dental Materials by Roughness Parameters. Coatings, 2019, 9, 456.	2.6	34
87	Research on the relationship between structure and properties of the soluble polyaryl ether ketone terminated with phthalonitrile. Journal of Polymer Research, 2019, 26, 1.	2.4	4
88	Strategy for Controlling the Properties of Bioactive Poly-Ether-Ether-Ketone/Hydroxyapatite Composites for Bone Tissue Engineering Scaffolds. ACS Omega, 2019, 4, 19238-19245.	3.5	18
89	Failure analysis of high performance polymers and new generation cubic zirconia used for implantâ€supported fixed, cantilevered prostheses. Clinical Implant Dentistry and Related Research, 2019, 21, 1132-1139.	3.7	11
90	Development of low pressure cold sprayed copper coatings on carbon fiber reinforced polymer (CFRP). Surface and Coatings Technology, 2019, 364, 306-316.	4.8	54
91	Biofilm formation on polyetheretherketone and titanium surfaces. Clinical and Experimental Dental Research, 2019, 5, 427-437.	1.9	32
92	The application of polyetheretherketone (PEEK) implants in cranioplasty. Brain Research Bulletin, 2019, 153, 143-149.	3.0	83
93	Mechanical properties, hemocompatibility, cytotoxicity and systemic toxicity of carbon fibers/poly(ether-ether-ketone) composites with different fiber lengths as orthopedic implants. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 1709-1724.	3.5	29
94	Sulfonated Cross-Linked Poly(ether ether ketone) Films with Wrinkled Structures: Preparation and Vanadium Ions Permeability. Macromolecular Research, 2019, 27, 1239-1247.	2.4	6

#	Article	IF	Citations
95	Porous Titanium Surfaces to Control Bacteria Growth: Mechanical Properties and Sulfonated Polyetheretherketone Coatings as Antibiofouling Approaches. Metals, 2019, 9, 995.	2.3	13
96	A three-dimensional finite element analysis of mechanical function for 4 removable partial denture designs with 3 framework materials: CoCr, Ti-6Al-4V alloy and PEEK. Scientific Reports, 2019, 9, 13975.	3.3	41
97	Unconventional implant strategy for patients with a limited interocclusal space in the posterior region: a case report. BMC Oral Health, 2019, 19, 214.	2.3	1
98	Properties of the Langmuir and Langmuirâ€“Blodgett monolayers of cholesterol-cyclosporine A on water and polymer support. Adsorption, 2019, 25, 923-936.	3.0	33
99	Trueness and precision of 5 intraoral scanners in the impressions of single and multiple implants: a comparative in vitro study. BMC Oral Health, 2019, 19, 101.	2.3	135
100	A case of maxilla implant overdenture using Pekkton telescopic attachment with severe alveolar bone resorption. The Journal of Korean Academy of Prosthodontics, 2019, 57, 189.	0.1	0
101	The Role of Polyether Ether Ketone (Peek) in Dentistry â€“ A Review. Journal of Medicine and Life, 2019, 12, 5-9.	1.3	107
102	Introduction to dental biomaterials and their advances. , 2019, , 1-5.		5
103	Nano glass ionomer cement: modification for biodental applications. , 2019, , 217-227.		3
104	Nanotechnology and nanomaterials in dentistry. , 2019, , 477-505.		22
105	Dental implants materials and surface treatments. , 2019, , 581-598.		6
106	An In Vitro Study of Osteoblast Response on Fused-Filament Fabrication 3D Printed PEEK for Dental and Cranio-Maxillofacial Implants. Journal of Clinical Medicine, 2019, 8, 771.	2.4	74
107	Three-Dimensional Custom-Root Replicate Tooth Dental Implants. Oral and Maxillofacial Surgery Clinics of North America, 2019, 31, 489-496.	1.0	15
108	The Effect of Various Plasma Gases on the Shear Bond Strength between Unfilled Polyetheretherketone (PEEK) and Veneering Composite Following Artificial Aging. Materials, 2019, 12, 1447.	2.9	20
109	Osteogenic Cell Behavior on Titanium Surfaces in Hard Tissue. Journal of Clinical Medicine, 2019, 8, 604.	2.4	3
110	Triple-functional polyetheretherketone surface with enhanced bacteriostasis and anti-inflammatory and osseointegrative properties for implant application. Biomaterials, 2019, 212, 98-114.	11.4	138
111	Polyether ether ketone (PEEK) and its manufacturing of customised 3D printed dentistry parts using additive manufacturing. Clinical Epidemiology and Global Health, 2019, 7, 654-660.	1.9	81
112	Correlation of friction and wear across length scales for PEEK sliding against steel. Tribology International, 2019, 136, 462-468.	5.9	11

#	Article	IF	Citations
113	Applications of PEEK in the Dental Field. , 2019, , 333-342.		5
114	Comparative evaluation of BioHPP and titanium as a framework veneered with composite resin for implant-supported fixed dental prostheses. Journal of Prosthetic Dentistry, 2019, 122, 383-388.	2.8	42
115	3D printing of polyether-ether-ketone for biomedical applications. European Polymer Journal, 2019, 114, 234-248.	5.4	138
116	Carbon Fiber Reinforced PEEK Composites Based on 3D-Printing Technology for Orthopedic and Dental Applications. Journal of Clinical Medicine, 2019, 8, 240.	2.4	221
117	Biomimetic Surfaces Coated with Covalently Immobilized Collagen Type I: An X-Ray Photoelectron Spectroscopy, Atomic Force Microscopy, Micro-CT and Histomorphometrical Study in Rabbits. International Journal of Molecular Sciences, 2019, 20, 724.	4.1	33
118	Friction and wear characteristics of polyetheretherketone (PEEK): A review. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012051.	0.6	8
119	Adhesion of PEEK to resin-matrix composites used in dentistry: a short review on surface modification and bond strength. Journal of Adhesion Science and Technology, 0, , 1-12.	2.6	7
120	Effect of laser groove treatment on shear bond strength of resin-based luting agent to polyetheretherketone (PEEK). Journal of Prosthodontic Research, 2019, 63, 52-57.	2.8	37
121	On the sulphonated PEEK for implant dentistry: Biological and physicochemical assessment. Materials Chemistry and Physics, 2019, 223, 542-547.	4.0	29
122	The behavior of polyetheretherketone healing abutments when measuring implant stability with electronic percussive testing. Clinical Implant Dentistry and Related Research, 2019, 21, 42-45.	3.7	2
123	Polyether ether ketone (PEEK) and its 3D printed implants applications in medical field: An overview. Clinical Epidemiology and Global Health, 2019, 7, 571-577.	1.9	100
124	Use of a Polyetheretherketone Clasp Retainer for Removable Partial Denture: A Case Report. Dentistry Journal, 2019, 7, 4.	2.3	25
125	Synthesis of cross-linked sulfonated poly(ether ether ketone) and its use for Pb2+ and 137Cs removal from aqueous solution. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 39-49.	1.5	8
126	Plasma Modified Polymeric Materials for Implant Applications. , 2019, , 367-407.		10
127	Retentive force of PEEK secondary crowns on zirconia primary crowns over time. Clinical Oral Investigations, 2019, 23, 2331-2338.	3.0	21
128	Bioactive Surface Coatings for Enhancing Osseointegration of Dental Implants. , 2019, , 313-329.		24
129	Hard and Soft Tissue Cell Behavior on Polyetheretherketone, Zirconia, and Titanium Implant Materials. International Journal of Oral and Maxillofacial Implants, 2019, 34, 39-46.	1.4	32
130	Comparing the optical and mechanical properties of PEKK polymer when CAD/CAM milled and pressed using a ceramic pressing furnace. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 234-236.	3.1	23

#	Article	IF	Citations
131	Use of High Performance Polymers as Dental Implant Abutments and Frameworks: A Case Series Report. Journal of Prosthodontics, 2019, 28, 365-372.	3.7	51
132	Experimental Investigations for Joining of 3D Printed PEEK Substrates for Biomedical Applications. , 2020, , 71-80.		1
133	Surface roughness and wear behavior of occlusal splint materials made of contemporary and high-performance polymers. Odontology / the Society of the Nippon Dental University, 2020, 108, 240-250.	1.9	34
134	Finite-element analysis and optimization of the mechanical properties of polyetheretherketone (PEEK) clasps for removable partial dentures. Journal of Prosthodontic Research, 2020, 64, 250-256.	2.8	30
135	Preliminary Clinical Application of Complete Workflow of Digitally Designed and Manufactured Sports Mouthguards. International Journal of Prosthodontics, 2020, 33, 99-104.	1.7	15
136	A speech bulb prosthesis for a soft palate defect with a polyetherketoneketone (PEKK) framework fabricated by multiple digital techniques: A clinical report. Journal of Prosthetic Dentistry, 2020, 124, 495-499.	2.8	16
137	Color changes of polyetheretherketone (PEEK) and polyoxymethelene (POM) denture resins on single and combined staining/cleansing action by CIELab and CIEDE2000 formulas. Journal of Prosthodontic Research, 2020, 64, 159-166.	2.8	10
138	Biointegration of bone graft substiutes from osteointegration to osteotranduction. , 2020, , 245-261.		3
139	Prosthodontic Applications of Polymethyl Methacrylate (PMMA): An Update. Polymers, 2020, 12, 2299.	4.5	270
140	Material characterization and Streptococcus oralis adhesion on Polyetheretherketone (PEEK) and titanium surfaces used in implantology. Journal of Materials Science: Materials in Medicine, 2020, 31, 84.	3.6	39
141	Lattice design and 3D-printing of PEEK with Ca10(OH)(PO4)3 and in-vitro bio-composite for bone implant. International Journal of Biological Macromolecules, 2020, 165, 50-62.	7.5	52
142	A Pilot Randomized Controlled Crossover Trial Comparing Early OHRQoL Outcomes of Cobalt-Chromium Versus PEEK Removable Partial Denture Frameworks. International Journal of Prosthodontics, 2020, 33, 386-392.	1.7	10
143	Hybrid Polyetheretherketone (PEEK)â€“Acrylic Resin Prostheses and the All-on-4 Concept: A Full-Arch Implant-Supported Fixed Solution with 3 Years of Follow-Up. Journal of Clinical Medicine, 2020, 9, 2187.	2.4	20
144	Polyetheretherketone custom CAD-CAM splint for treatment of periodontally affected mobile anterior teeth. Journal of Prosthetic Dentistry, 2022, 127, 210-212.	2.8	3
145	Digital fabrication of an adult speech aid prosthesis by using a 3-dimensionally printed polyetheretherketone framework. Journal of Prosthetic Dentistry, 2020, , .	2.8	4
146	Polyetheretherketone and Its Composites for Bone Replacement and Regeneration. Polymers, 2020, 12, 2858.	4.5	69
147	The Utility of Implant-Supported Fixed Dental Prosthesis Material for Implant Micromovement and Peri-implant Bone Microstrain: A Study in Rabbit Tibia. International Journal of Oral and Maxillofacial Implants, 2020, 35, 1132-1140.	1.4	3
148	Preparation of Poly(ether-ether-ketone)/Nanohydroxyapatite Composites with Improved Mechanical Performance and Biointerfacial Affinity. ACS Omega, 2020, 5, 29398-29406.	3.5	12

#	Article	IF	Citations
149	Titanium, zirconia, and polyetheretherketone (PEEK) as a dental implant material. , 2020, , 5-35.		8
150	Fused Filament Fabrication of PEEK: A Review of Process-Structure-Property Relationships. Polymers, 2020, 12, 1665.	4.5	118
151	The influence of the restorative material on the mechanical behavior of screw-retained hybrid-abutment-crowns. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103988.	3.1	22
152	Introduction to dental implants materials, coatings, and surface modifications. , 2020, , 1-4.		5
153	Surface modification techniques of dental implants. , 2020, , 49-68.		7
154	Drugs eluting dental implants. , 2020, , 225-240.		1
155	Silicon nitride (SiN): an emerging material for dental implant applications. , 2020, , 287-299.		4
156	A review on PEEK composites â€“ Manufacturing methods, properties and applications. Materials Today: Proceedings, 2020, 33, 1085-1092.	1.8	39
157	The impact of non-thermal plasma on the adhesion of polyetherketoneketone (PEKK) to a veneering composite system. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104065.	3.1	4
158	Retentive Characteristics of a Polyetheretherketone Post-Core Restoration with Polyvinylsiloxane Attachments. Polymers, 2020, 12, 2005.	4.5	4
159	Strategies to Reduce Biofilm Formation in PEEK Materials Applied to Implant Dentistryâ€”A Comprehensive Review. Antibiotics, 2020, 9, 609.	3.7	24
160	Clinical acceptability of PEEK fixed dental prosthesis in partially edentulous patient â€“ A one year single arm pilot study. Journal of Oral Biology and Craniofacial Research, 2020, 10, 523-528.	1.9	8
161	Preliminary clinical evaluation of traditional and a new digital PEEK occlusal splints for the management of sleep bruxism. Journal of Oral Rehabilitation, 2020, 47, 1530-1537.	3.0	16
162	Hybrid-abutment-restoration: effect of material type on torque maintenance and fracture resistance after thermal aging. International Journal of Implant Dentistry, 2020, 6, 24.	2.7	22
163	Polyetheretherketone in Implant Prosthodontics: A Scoping Review. International Journal of Prosthodontics, 2020, 33, 671-679.	1.7	10
164	Biologically Modified Polyether Ether Ketone as Dental Implant Material. Frontiers in Bioengineering and Biotechnology, 2020, 8, 620537.	4.1	34
165	InÂvitro assessment of PEEK and titanium implant abutments: Screw loosening and microleakage evaluations under dynamic mechanical testing. Journal of Prosthetic Dentistry, 2022, 127, 470-476.	2.8	15
166	Tooth-Colored CAD/CAM Materials for Application in 3-Unit Fixed Dental Prostheses in the Molar Area: An Illustrated Clinical Comparison. Materials, 2020, 13, 5588.	2.9	21

#	Article	IF	Citations
167	The Effect of Different Cleaning Protocols of Polymer-Based Prosthetic Materials on the Behavior of Human Gingival Fibroblasts. International Journal of Environmental Research and Public Health, 2020, 17, 7753.	2.6	6
168	Tensile and Bending Strength Improvements in PEEK Parts Using Fused Deposition Modelling 3D Printing Considering Multi-Factor Coupling. Polymers, 2020, 12, 2497.	4.5	34
169	Fracture Load of Veneered Telescopic Secondary Crowns Made of High-Performance Polymer on Zirconia Primary Crowns: Impact of Veneering Technique. International Journal of Prosthodontics, 2020, 33, 307-314.	1.7	0
170	Effect of Modification with Helium Atmospheric-Pressure Plasma and Deep-Ultraviolet Light on Adhesive Shear Strength of Fiber-Reinforced Poly(ether-ether-ketone) Polymer. Journal of Functional Biomaterials, 2020, 11, 27.	4.4	6
171	Enhanced bioactivity and osteogenic property of carbon fiber reinforced polyetheretherketone composites modified with amino groups. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111098.	5.0	31
172	Design of dental implants at materials level: An overview. Journal of Biomedical Materials Research - Part A, 2020, 108, 1634-1661.	4.0	38
173	Scaffolds and coatings for bone regeneration. Journal of Materials Science: Materials in Medicine, 2020, 31, 27.	3.6	86
174	Customized Therapeutic Surface Coatings for Dental Implants. Coatings, 2020, 10, 568.	2.6	45
175	Osseointegration and biosafety of graphene oxide wrapped porous CF/PEEK composites as implantable materials: The role of surface structure and chemistry. Dental Materials, 2020, 36, 1289-1302.	3.5	44
176	Fatigue behavior and damage modes of high performance poly-ether-ketone-ketone PEKK bilayered crowns. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103957.	3.1	14
177	Effect of different fabrication techniques on the marginal precision of polyetheretherketone single-crown copings. Journal of Prosthetic Dentistry, 2020, 124, 565.e1-565.e7.	2.8	12
178	Surface Modifications of Poly(Ether Ether Ketone) via Polymerization Methodsâ€"Current Status and Future Prospects. Materials, 2020, 13, 999.	2.9	32
179	Suitability of the new Aryl-Ketone-Polymer indicated for removable partial dentures: Analysis of elastic properties and bond strength to denture resin. Dental Materials Journal, 2020, 39, 539-546.	1.8	7
180	Fracture Resistance and Failure Mode of Custom-made Post-and-cores of Polyetheretherketone and Nano-ceramic Composite. Operative Dentistry, 2020, 45, 506-515.	1.2	16
181	Physical background of the endurance limit in poly(ether ether ketone). Journal of Polymer Science, 2020, 58, 716-736.	3.8	8
182	Clinical Outcomes Following Immediate Loading of Single-Tooth Implants in the Esthetic Zone: A Systematic Review and Meta-Analysis. International Journal of Oral and Maxillofacial Implants, 2020, 35, 167-177.	1.4	20
183	Adhesion to high-performance polymers applied in dentistry: A systematic review. Dental Materials, 2020, 36, e93-e108.	3.5	46
185	The impact of different low-pressure plasma types on the physical, chemical and biological surface properties of PEEK. Dental Materials, 2021, 37, e15-e22.	3.5	25

#	Article	IF	Citations
186	Is the high-performance thermoplastic polyetheretherketone indicated as a clasp material for removable dental prostheses?. Clinical Oral Investigations, 2021, 25, 2859-2866.	3.0	10
187	Thermal Simulation and Warping Deformation Experimental Study of PEEK in Material Extrusion. Macromolecular Theory and Simulations, 2021, 30, 2000055.	1.4	2
188	Three-dimensional (3D) synthetic printing for the manufacture of non-biodegradable models, tools and implants used in surgery: a review of current methods. Journal of Medical Engineering and Technology, 2021, 45, 14-21.	1.4	16
189	Effect of aging on fracture resistance and torque loss of restorations supported by zirconia and polyetheretherketoneÂabutments: An inÂvitro study. Journal of Prosthetic Dentistry, 2021, 125, 501.e1-501.e6.	2.8	3
190	Carbon nanotube/polyetheretherketone nanocomposites: mechanical, thermal, and electrical properties. Journal of Composite Materials, 2021, 55, 2115-2132.	2.4	16
191	Advances in Dental Implantology using Nanomaterials and Allied Technology Applications. , 2021, , .		4
192	Retention force of polyetheretherketone and cobalt-chrome-molybdenum removable dental prosthesis clasps after artificial aging. Clinical Oral Investigations, 2021, 25, 3141-3149.	3.0	17
193	3D Printing-Processed Polymers for Dental Applications. , 2021, , 141-164.		6
194	Thermal, structural and morphological characterization of dental polymers for clinical applications. Journal of Prosthodontic Research, 2021, 65, 176-185.	2.8	10
195	Surface Microhardness, Flexural Strength, and Clasp Retention and Deformation of Acetal vs Poly-ether-ether Ketone after Combined Thermal Cycling and pH Aging. Journal of Contemporary Dental Practice, 2021, 22, 140-145.	0.5	5
196	Plasma ion implantation of 3Dâ€printed PEEK creates optimal host conditions for bone ongrowth and mineralisation. Plasma Processes and Polymers, 2021, 18, 2000219.	3.0	13
197	Synthesis and Modification of Hydroxyapatite Nanofiber for Poly(Lactic Acid) Composites with Enhanced Mechanical Strength and Bioactivity. Nanomaterials, 2021, 11, 213.	4.1	17
198	Combination of Polydopamine Coating and Plasma Pretreatment to Improve Bond Ability Between PEEK and Primary Teeth. Frontiers in Bioengineering and Biotechnology, 2020, 8, 630094.	4.1	13
199	Nanostructured Coating of Non-Crystalline Tantalum Pentoxide on Polyetheretherketone Enhances RBMS Cells/HGE Cells Adhesion. International Journal of Nanomedicine, 2021, Volume 16, 725-740.	6.7	15
200	Behavior of polyether-ether-ketone (PEEK) in prostheses on dental implants. A review. Journal of Clinical and Experimental Dentistry, 2021, 13, e520-e526.	1.2	28
201	Complex Polymeric Materials and Their Interaction with Microorganisms. , 2021, , 71-84.		0
202	An overview of the Implant Therapy: The Esthetic Approach. International Journal of Current Research and Review (discontinued), 2021, 13, 106-112.	0.1	0
203	Effect of different surface treatments on the bond strength of milled polyetheretherketone posts. Journal of Prosthetic Dentistry, 2022, 127, 866-874.	2.8	15

#	Article	IF	Citations
204	The All-on-Four Concept. , 2021, , 195-229.		0
205	Flexural strength and anti-fungal activity of copper nano-particles on poly-methyl methacrylate denture base resins. Materials Today: Proceedings, 2021, 46, 8761-8766.	1.8	4
206	Shade Matching of CAD/CAM Lithium Silicate Ceramics Veneered on Newly Introduced Foundation Material.. Egyptian Dental Journal, 2021, 67, 563-570.	0.1	0
207	Plastics in High Heat Resistant Applications. , 2022, , 200-215.		2
208	Mechanical Implant Material Selection, Durability, Strength, and Stiffness. , 2021, , 151-162.		0
209	Effect of different loads on wear mechanisms of polyether-ether-ketone in normal saline and debris-isolating method. Journal of Thermoplastic Composite Materials, 0, , 089270572098420.	4.2	1
210	Fracture load of zirconia implant supported CAD/CAM resin crowns and mechanical properties of restorative material and cement. Journal of Prosthodontic Research, 2021, 65, 502-508.	2.8	6
211	Review on Development and Dental Applications of Polyetheretherketone-Based Biomaterials and Restorations. Materials, 2021, 14, 408.	2.9	60
212	Computer-aided technology for fabricating removable partial denture frameworks: A systematic review and meta-analysis. Journal of Prosthetic Dentistry, 2022, 128, 331-340.	2.8	14
213	Effect of surface treatment on roughness and bond strength of <scp>CADâ€CAM</scp> multidirectional glass fiberâ€reinforced composite resin used for implantâ€supported prostheses. Polymer International, 2021, 70, 1153-1158.	3.1	4
214	Polyetherketoneketone (PEKK): An emerging biomaterial for oral implants and dental prostheses. Journal of Advanced Research, 2021, 28, 87-95.	9.5	133
215	Carbon fiber-reinforced PEEK in implant dentistry: A scoping review on the finite element method. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1355-1367.	1.6	19
216	Influence of Polymeric Restorative Materials on the Stress Distribution in Posterior Fixed Partial Dentures: 3D Finite Element Analysis. Polymers, 2021, 13, 758.	4.5	33
217	Effect of different surface treatments on the shear bond strength of PAEKs to composite resin. Journal of Adhesion Science and Technology, 2021, 35, 2438-2451.	2.6	3
218	Bonding and Thermal Cycling Performances of Two (Poly)Arylâ€“Etherâ€“Ketone (PAEKs) Materials to an Acrylic Denture Base Resin. Polymers, 2021, 13, 543.	4.5	8
219	Comparative stress evaluation of different types of prosthetic abutment and crown with an internal connection implant. Research, Society and Development, 2021, 10, e7010413933.	0.1	1
220	In vivo Evaluation of PEEK Copolymer Composites for Prosthetic Spine. Macromolecular Research, 2021, 29, 244-251.	2.4	1
221	Application of analytical methodology in parametric analysis of the stress state in a coating-substrate system based on dental materials. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104297.	3.1	2

#	Article	IF	Citations
222	Mechanical and thermal stress evaluation of PEEK prefabricated post with different head design in endodontically treated tooth: 3D-finite element analysis. Dental Materials Journal, 2021, 40, 508-518.	1.8	16
223	Evaluation of the effects of additives on the properties of starch-based bioplastic film. SN Applied Sciences, 2021, 3, 1.	2.9	32
224	Polyâ€etherâ€etherâ€ketone and implant dentistry: the future of mimicking natural dentition is now!. Polymer International, 2021, 70, 999-1001.	3.1	8
225	Developments of PEEK (Polyetheretherketone) as a biomedical material: A focused review. European Polymer Journal, 2021, 147, 110295.	5.4	88
226	Effect of pre-coating with methyl methacrylate containing UV photoinitiators on the bond strength of poly(ether ether ketone). Dental Materials Journal, 2021, 40, 519-524.	1.8	2
227	The influence of framework material on stress distribution in maxillary complete-arch fixed prostheses supported by four dental implants: a three-dimensional finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1606-1617.	1.6	9
228	Design of metal-polymer structure for dental implants with stiffness adaptable to alveolar bone. Composites Communications, 2021, 24, 100660.	6.3	6
229	Repair of resin-veneered polyetheretherketone after veneer fracture. Journal of Prosthetic Dentistry, 2021, 125, 704.e1-704.e8.	2.8	8
230	State-of-Art of Standard and Innovative Materials Used in Cranioplasty. Polymers, 2021, 13, 1452.	4.5	24
231	Patient specific total temporomandibular joint reconstruction: A review of biomaterial, designs, fabrication and outcomes. Journal of Oral Biology and Craniofacial Research, 2021, 11, 334-343.	1.9	11
232	Novel vascular strategies on polyetheretherketone modification in promoting osseointegration in ovariectomized rats. Materials and Design, 2021, 202, 109526.	7.0	9
233	Bond strength of lithium disilicate to polyetheretherketone. Journal of Prosthetic Dentistry, 2022, 128, 1351-1357.	2.8	2
234	Accuracy of implant impression techniques with a scannable healing abutment. Journal of Prosthetic Dentistry, 2022, 128, 729-734.	2.8	4
235	InÂvitro evaluation of material dependent force damping behavior of implant-supported restorations using different CAD-CAM materials and luting conditions. Journal of Prosthetic Dentistry, 2021, 126, 93.e1-93.e9.	2.8	6
236	On the synergistic effect of sulfonic functionalization and acidic adhesive conditioning to enhance the adhesion of PEEK to resin-matrix composites. Dental Materials, 2021, 37, 741-754.	3.5	19
237	Fabrication of an implant-retained overdenture with ceramic crowns cemented on a polyetherketoneketone framework: A clinical report. Journal of Prosthetic Dentistry, 2021, , .	2.8	0
238	Digital fabrication of a maxillary obturator prosthesis by using a 3-dimensionallyâ€“printed polyetheretherketoneÂframework. Journal of Prosthetic Dentistry, 2023, 129, 230-233.	2.8	5
239	Effect of <scp>IR</scp>â€laser treatment parameters on surface structure, roughness, wettability and bonding properties of fused deposition modelingâ€printed <scp>PEEK</scp>/<scp>CF</scp>. Journal of Applied Polymer Science, 2021, 138, 51181.	2.6	6

#	Article	IF	Citations
240	A Brief Review on the Evolution of Metallic Dental Implants: History, Design, and Application. Frontiers in Materials, 2021, 8, .	2.4	20
241	Mechanical, Chemical, and Processing Properties of Specimens Manufactured from Poly-Ether-Ether-Ketone (PEEK) Using 3D Printing. Materials, 2021, 14, 2717.	2.9	11
242	Graphene Oxide-Modified Polyetheretherketone with Excellent Antibacterial Properties and Biocompatibility for Implant Abutment. Macromolecular Research, 2021, 29, 351-359.	2.4	14
243	Surface-tethering of methylated polyrotaxanes with 4-vinylbenzyl groups onto poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	1
244	Effects of laser modalities on shear bond strengths of composite superstructure to zirconia and PEEK infrastructures: an in vitro study. Odontology / the Society of the Nippon Dental University, 2021, 109, 845-853.	1.9	8
245	Leveraging 3D printing to enhance mass spectrometry: A review. Analytica Chimica Acta, 2021, 1166, 338332.	5.4	17
246	Preparation and Performance Evaluation of Duotone 3D-Printed Polyetheretherketone as Oral Prosthetic Materials: A Proof-of-Concept Study. Polymers, 2021, 13, 1949.	4.5	9
247	Modern partial dentures - part 2: a review of novel metal-free materials and innovations in polymers. British Dental Journal, 2021, 230, 813-818.	0.6	6
248	Mechanical performances of hip implant design and fabrication with PEEK composite. Polymer, 2021, 227, 123865.	3.8	29
249	Polyetheretherketone patient-specific implants (PPSI) for the reconstruction of two different mandibular contour deformities. Oral and Maxillofacial Surgery, 2022, 26, 299-309.	1.3	12
250	Morphology and properties of foamed high crystallinity<scp>PEEK</scp>prepared by high temperature thermally induced phase separation. Journal of Applied Polymer Science, 2022, 139, 51423.	2.6	10
251	3D printing of PEEK and its composite to increase biointerfaces as a biomedical material- A review. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111726.	5.0	72
252	Modification of polyetheretherketone implants: From enhancing bone integration to enabling multi-modal therapeutics. Acta Biomaterialia, 2021, 129, 18-32.	8.3	71
253	Patient Satisfaction and Pink Esthetics of PEEK Versus Zirconium Abutments in the Esthetic Zone (A) Tj ETQq1 1 0.784314 rgBT /Over	0.4	0
254	Comparison of marginal and internal fit of three-unit implant-supported fixed prosthetic substructures fabricated using CAD/CAM systems. Clinical Oral Investigations, 2021, , 1.	3.0	1
255	The Role of Biomaterials and Biocompatible Materials in Implant-Supported Dental Prosthesis. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-9.	1.2	21
256	Surface porous poly-ether-ether-ketone based on three-dimensional printing for load-bearing orthopedic implant. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 120, 104561.	3.1	24
257	Fracture Resistance of Singleâ€Unit Implantâ€Supported Crowns: Effects of Prosthetic Design and Restorative Material. Journal of Prosthodontics, 2022, 31, 348-355.	3.7	11

#	Article	IF	Citations
258	Marginal Adaptation of Implant Prostheses Fabricated by Different Materials in Excessive Crown Height Space Before and After Veneering. Frontiers in Dentistry, 0, , .	0.6	0
259	Surface roughness of high-performance polymers used for fixed implant-supported prostheses. Journal of Prosthetic Dentistry, 2021, 126, 254.e1-254.e6.	2.8	18
260	Numerical Simulation of the Cold Spray Deposition of Copper Particles on Polyether Ether Ketone (PEEK) Substrate. Journal of Thermal Spray Technology, 0, , 1.	3.1	1
261	Mechanical behavior of nano-hybrid composite in comparison to lithium disilicate as posterior cement-retained implant-supported crowns restoring different abutments. Dental Materials, 2021, 37, e435-e442.	3.5	7
262	PEEK Implants: An Innovative Solution for Facial Aesthetic Surgery. Case Reports in Surgery, 2021, 2021, 1-3.	0.4	4
263	Surface Bioactivation of Polyether Ether Ketone (PEEK) by Sulfuric Acid and Piranha Solution: Influence of the Modification Route in Capacity for Inducing Cell Growth. Biomolecules, 2021, 11, 1260.	4.0	13
264	Application of a new scan body for faceâ€driven fixed prosthetics. Clinical and Experimental Dental Research, 2021, , .	1.9	2
265	Modified porous microstructure for improving bone compatibility of poly-ether-ether-ketone. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 120, 104541.	3.1	5
266	Sustainable Surface Modification of Polyetheretherketone (PEEK) Implants by Hydroxyapatite/Silica Coatingâ€”An In Vivo Animal Study. Materials, 2021, 14, 4589.	2.9	12
267	Post-Processing of 3D-Printed Polymers. Technologies, 2021, 9, 61.	5.1	85
268	An update on indirect prosthodontic materials and their manufacturing techniques. Dental Update, 2021, 48, 699-705.	0.2	0
269	Facile Amidogen Bioâ€Activation Method Can Boost the Soft Tissue Integration on 3D Printed Polyâ€“Etherâ€“Etherâ€“Ketone Interface. Advanced Materials Interfaces, 2021, 8, 2100547.	3.7	4
270	Effect of hydroxyapatite content and particle size on the mechanical behaviors and osteogenesis in vitro of polyetheretherketoneâ€“hydroxyapatite composite. Polymer Composites, 2021, 42, 6512-6522.	4.6	19
271	In situ preparation of porous metal-organic frameworks ZIF-8@Ag on poly-ether-ether-ketone with synergistic antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111920.	5.0	31
272	3D printed PEEK/HA composites for bone tissue engineering applications: Effect of material formulation on mechanical performance and bioactive potential. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104601.	3.1	62
273	Nanocomposite coating of albumin/Li-containing bioactive glass nanospheres promotes osteogenic activity of PEEK. Journal of Materials Science: Materials in Medicine, 2021, 32, 120.	3.6	3
274	Comparative Analysis of Stress and Deformation between One-Fenced and Three-Fenced Dental Implants Using Finite Element Analysis. Journal of Clinical Medicine, 2021, 10, 3986.	2.4	11
275	Biomechanical Aspects of Various Attachments for Implant Overdentures: A Review. Polymers, 2021, 13, 3248.	4.5	16

#	Article	IF	Citations
276	Possibilities of Improving the Rheological and Physical-Mechanical Properties of Polyetheretherketone Using Organophosphorus Stabilizers. Key Engineering Materials, 0, 899, 576-584.	0.4	1
277	Trueness and marginal fit of implant-supported complete-arch fixed prosthesis frameworks made of high-performance polymers and titanium: An explorative in-vitro study. Journal of Dentistry, 2021, 113, 103784.	4.1	9
278	Load-bearing capacity under fatigue and FEA analysis of simplified ceramic restorations supported by Peek or zirconia polycrystals as foundation substrate for implant purposes. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104760.	3.1	18
279	Porous polyetheretherketone-hydroxyapatite composite: A candidate material for orthopedic implant. Composites Communications, 2021, 28, 100908.	6.3	14
280	An In Vitro Analysis of the Physical and Mechanical Behavior of a PEEK Component for an Implant-Supported and Retained Removable Dental Prosthesis. International Journal of Prosthodontics, 2023, 36, .	1.7	2
281	Polyetheretherketone versus titanium CAD-CAM framework for implant-supported fixed complete dentures: a retrospective study with up to 5-year follow-up. Journal of Prosthodontic Research, 2022, 66, 279-287.	2.8	14
282	Finite element analysis of the effect of framework materials at the boneâ€“implant interface in the all-on-four implant system. Dental Research Journal, 2021, 18, 1.	0.6	16
283	Comparative Study of Chemical and Mechanical Surface Treatment Effects on Shear Bond Strength of PEEK to Veneering Ceramic. International Journal of Prosthodontics, 2022, 35, 201-207.	1.7	15
284	A Potential Application of Materials Based on a Polymer and CAD/CAM Composite Resins in Prosthetic Dentistry. Journal of Prosthodontic Research, 2021, 65, 137-147.	2.8	32
286	CAD-FEA modeling and analysis of different full crown monolithic restorations. Dental Materials, 2018, 34, 1342-1350.	3.5	87
287	Bioactive amorphous magnesium phosphate-polyetheretherketone composite filaments for 3D printing. Dental Materials, 2020, 36, 865-883.	3.5	42
288	Physicochemical properties and cytocompatibility assessment of non-degradable scaffolds for bone tissue engineering applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 103997.	3.1	17
289	Widely accessible 3D printing technologies in chemistry, biochemistry and pharmaceutics: applications, materials and prospects. Russian Chemical Reviews, 2020, 89, 1507-1561.	6.5	32
290	Effect of Surface Treatment With Er:YAG and CO2 Lasers on Shear Bond Strength of Polyether Ether Ketone to Composite Resin Veneers. Journal of Lasers in Medical Sciences, 2020, 11, 153-159.	1.2	19
291	Evaluation of the bioactivity of surface modified polyetheretherketone (PEEK) as an implant material: An In Vitro study. Contemporary Clinical Dentistry, 2020, 11, 356.	0.7	4
292	Biomechanical behavior of an implant system using polyether ether ketone bar: Finite element analysis. Journal of International Society of Preventive and Community Dentistry, 2018, 8, 446.	1.0	9
293	Three-Dimensional-Printed Polyether Ether Ketone Implants for Orthopedics. Indian Journal of Orthopaedics, 2019, 53, 377-379.	1.1	23
294	Bioactive glass in dentistry: A systematic review. Saudi Journal of Oral Sciences, 2020, 7, 3.	0.2	8

#	Article	IF	Citations
295	An evaluation using micro-CT data of the stress formed in the crown and periodontal tissues from the use of Peek post and Peek crown: A 3D finite element analysis study. International Dental Research, 2019, 8, 144-150.	0.1	5
296	Comparison of Fracture Strengths of Three Provisional Prosthodontic CAD/CAM Materials: Laboratory Fatigue Tests. Applied Sciences (Switzerland), 2021, 11, 9589.	2.5	3
297	CLINICAL AND RADIOGRAPHIC ASSESSMENT OF IMPLANT OVERDENTURES RETAINED BY DIFFERENT ATTACHMENT SYSTEMS. Egyptian Dental Journal, 2017, 63, 3325-3333.	0.1	2
298	THE CHANGING CONCEPTS IN THE RETENTION OF MAXILLOFACIAL PROSTHESIS FROM PAST TO PRESENT- A REVIEW. Journal of Evolution of Medical and Dental Sciences, 2017, 6, 5879-5883.	0.1	3
299	Maxillar implant-retained overdenture using CAD/CAM milled zirconia bar with PEKK sleeve: a case report. Journal of Dental Rehabilitation and Applied Science, 2017, 33, 307-313.	0.3	0
300	INFLUENCE OF ORAL RINSE SOLUTIONS AND TOOTH BRUSHING ON STAIN ABILITY OF THERMOPLASTIC TOOTH COLORED PROSTHETIC MATERIALS. Egyptian Dental Journal, 2018, 64, 1855-1864.	0.1	0
301	Modification of Polyetheretherketone Surface by Argon, Oxygen and Nitrogen Plasma for Dentistry Application. Lecture Notes in Networks and Systems, 2019, , 160-164.	0.7	1
303	Conical connection adjustment in prosthetic abutments obtained by different techniques. Journal of Clinical and Experimental Dentistry, 2019, 11, e408-e413.	1.2	6
304	Thermoplastic Materials for Infrastructures in Prosthodontic Rehabilitation: A Review. Lecture Notes in Computational Vision and Biomechanics, 2019, , 606-614.	0.5	0
305	Effect of different fixed detachable implant supported prosthesis materials on the stresses induced on the supporting structures. Egyptian Dental Journal, 2019, 65, 445-452.	0.1	1
306	Marginal fit of polyetheretherketone single crown copings obtained using different fabrication techniques. Egyptian Dental Journal, 2019, 65, 1653-1661.	0.1	0
307	Biomedical Materials in Dentistry. , 2020, , 3-20.		6
308	Mechanical Implant Material Selection, Durability, Strength, and Stiffness. , 2020, , 1-12.		0
309	POLÄºETER ETER KETON (PEEK) ve DENTAL KULLANIMI. AtatÃ¼rk Ãœniversitesi DiÅŸ HekimliÄŸi FakÃ¼ltesi Dergisi, 0, , .	0.0	2
310	PEEK Polimerinin DiÅŸhekimliÄŸinde KullanÄ±mÄ±. Selcuk Dental Journal, 0, , .	0.4	0
311	Wear Resistance, Color Stability and Displacement Resistance of Milled PEEK Crowns Compared to Zirconia Crowns under Stimulated Chewing and High-Performance Aging. Polymers, 2021, 13, 3761.	4.5	34
312	Bending Properties, compression Properties, biocompatibility and bioactivity of sulfonated carbon Fibers/PEEK composites with graphene oxide coating. Applied Surface Science, 2022, 575, 151774.	6.1	15
313	Carbon fibre reinforced PEEK versus traditional metallic implants for orthopaedic trauma surgery: A systematic review. Journal of Clinical Orthopaedics and Trauma, 2021, 23, 101674.	1.5	13

#	Article	IF	Citations
314	Biomaterials for Dental Applications. , 2021, , 455-493.		2
315	KumlamanÄ±n Polietereterketon ve Rezin Siman BaÄŸlantÄ± DayanÄ±mÄ±na Etkisi. SaÄŸlÄ±k Akademisi Kastamonu, 2020, 5, 5-6.	0.1	1
316	The effect of thermo-mechanical fatigue on the retentive force and dimensional changes in polyetheretherketone clasps with different thickness and undercut. Journal of Advanced Prosthodontics, 2021, 13, 304.	2.6	4
317	Deformation of polyetheretherketone, PEEK, with different thicknesses. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104928.	3.1	5
318	Hydroxyapatite-incorporation improves bone formation on endosseous PEEK implant in canine tibia. Journal of Applied Biomaterials and Functional Materials, 2020, 18, 228080002097517.	1.6	7
319	Usage of Poly-Ether-Ether-Ketone Polymer for the Biomedical Applicationâ€"A Critical Review. Springer Proceedings in Materials, 2020, , 371-379.	0.3	0
320	Evaluation of fracture resistance and color stability of crowns obtained by layering composite over zirconia and polyetheretherketone copings before and after thermocycling to simulate oral environment: An in vitro study. Journal of Pharmacy and Bioallied Sciences, 2020, 12, 523.	0.6	5
321	Comparative evaluation of the wear resistance of two different implant abutment materials after cyclic loading â€“ An in vitro study. Contemporary Clinical Dentistry, 2020, 11, 229.	0.7	4
322	ASSESSMENT OF VARIOUS SURFACE TREATMENTS ON PULL OFF OF POLYETHERETHERKETONE ANTERIOR CROWN. Egyptian Dental Journal, 2020, 66, 1253-1259.	0.1	0
323	Influence of nozzle temperature and volumetric filling on the mechanical properties of 3D-printed PEEK. Materialpruefung/Materials Testing, 2020, 62, 351-356.	2.2	3
324	Flexible Fiber Conditioner for Fine Conditioning of Polishing Pad and its Evaluation in Chemical Mechanical Polishing: Verification of SUS-FFC on Soft Urethane Foam Pad and Proposal of PEEK-FFC. International Journal of Automation Technology, 2021, 15, 878-884.	1.0	0
325	Contemporary treatment modalities for definitive rehabilitation of acquired maxillary defects â€“ A review. International Journal of Oral Health Dentistry, 2020, 6, 81-88.	0.1	0
327	Poly Ether Ether Ketone (PEEK) Applications in Prosthodontics â€“ A Review â€œPeek into PEEK at Peakâ€• Journal of Evolution of Medical and Dental Sciences, 2020, 9, 3242-3246.	0.1	0
328	Efficacy of Enamel Matrix Derivative in Vital Pulp Therapy: A Review of Literature. Iranian Endodontic Journal, 2017, 12, 269-275.	0.8	2
331	A Comparison of Undergraduate Prosthodontic Teaching of Removable Partial Dentures in Saudi Arabian Dental Colleges with North American and Turkish Dental Schools. Journal of International Society of Preventive and Community Dentistry, 2021, 11, 144-151.	1.0	0
332	Finite element analysis of the effect of framework materials at the bone-implant interface in the all-on-four implant system. Dental Research Journal, 2021, 18, 1.	0.6	4
333	What are biomaterials in endodontics?. , 2022, , 1-4.		1
334	Recent advances in orthopedic polyetheretherketone biomaterials: Material fabrication and biofunction establishment. Smart Materials in Medicine, 2022, 3, 20-36.	6.7	39

#	Article	IF	Citations
335	InÂvitro assessment of polyetheretherketone for an attachment component for an implant-retained overdenture. Journal of Prosthetic Dentistry, 2022, 127, 319.e1-319.e8.	2.8	4
336	Quantitative analysis and degradation mechanisms of different protein degradation methods. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, , .	3.4	1
337	Polyetheretherketone (PEEK) Post and Core Restorations: A 3D Accuracy Analysis between Heatâ€Pressed and CADâ€CAM Fabrication Methods. Journal of Prosthodontics, 2022, 31, 537-542.	3.7	15
338	Nutrient alloying elements in biodegradable metals: a review. Journal of Materials Chemistry B, 2021, 9, 9806-9825.	5.8	8
339	Immunomodulatory Properties and Osteogenic Activity of Polyetheretherketone Coated with Titanate Nanonetwork Structures. International Journal of Molecular Sciences, 2022, 23, 612.	4.1	10
340	Marginal Accuracy and Fracture Resistance of Posterior Crowns Fabricated from CAD/CAM PEEK Cores Veneered with HIPC or Nanohybrid Conventional Composite. Egyptian Dental Journal, 2020, 66, 2541-2552.	0.1	6
341	SABÄ°T PROTEZLERDE ALTYAPI MATERYALLERÄ° VE SINIFLANDIRMALARI. Selcuk Dental Journal, 0, , .	0.4	0
342	Poly(dopamine)-assisted Bioactive Coating on the Surface of Porous Poly (Ether Ether Ketone) to Promote Osteogenic Differentiation of rBMSC. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 766-776.	1.0	3
343	Lithium disilicate and PEEK implant-retained single crowns - a randomized, prospective clinical study. Srpski Arhiv Za Celokupno Lekarstvo, 2022, 150, 23-28.	0.2	0
344	Evaluation of the effects of different surface modification methods on the bond strength of high-performance polymers and resin matrix ceramics. Clinical Oral Investigations, 2022, 26, 3781-3790.	3.0	4
345	Evaluation of Biomechanical Effects of Prosthetic Components with Different Materials on the Abutment Screw. Cumhuriyet Dental Journal, 0, , 337-345.	0.3	0
346	Success Factors of Additive Manufactured Root Analogue Implants. ACS Biomaterials Science and Engineering, 2022, 8, 360-378.	5.2	8
347	Alternative Denture Base Materials for Allergic Patients. Dentistry, 0, , .	0.0	0
348	Influence of different combinations of CAD-CAM crown and customized abutment materials on the force absorption capacity in implant supported restorations â€“ In vitro study. Dental Materials, 2022, 38, e10-e18.	3.5	7
349	Comparison of microstructure and tensile behavior of hydroxyapatite-coated PEEK meshes and cellulose-based fabrics and mats. Journal of Industrial Textiles, 0, , 152808372110700.	2.4	2
350	Mechanical Strength Study of a Cranial Implant Using Computational Tools. Applied Sciences (Switzerland), 2022, 12, 878.	2.5	3
351	Prosthetic Materials Used for Implant-Supported Restorations and Their Biochemical Oral Interactions: A Narrative Review. Materials, 2022, 15, 1016.	2.9	16
352	Nd:YVO₄ laser groove treatment can improve the shear bond strength between dental PEEK and adhesive resin cement with an adhesive system. Dental Materials Journal, 2022, 41, 382-391.	1.8	6

#	Article	IF	Citations
353	Effect of combining different surface treatments on the surface characteristics of polyetheretherketone-based core materials and shear bond strength to a veneering composite resin. Journal of Prosthetic Dentistry, 2022, 127, 599.e1-599.e7.	2.8	8
354	The antibacterial property of zinc oxide/graphene oxide modified porous polyetheretherketone against S. sanguinis, F. nucleatum and P. gingivalis. Biomedical Materials (Bristol), 2022, 17, 025013.	3.3	12
355	Comparison of magnitude and distribution of stress at implant-bone interface in carbon-fiber-reinforced-polyetheretherketone, zirconium, and titanium implant: A three-dimensional finite element study. SRM Journal of Research in Dental Sciences, 2022, 13, 7.	0.2	0
356	3D-Printed Biomaterials in Biomedical Application. , 2022, , 319-339.		8
357	Properties of polyetheretheretherketone (PEEK) implant abutments: A systematic review. Journal of Clinical and Experimental Dentistry, 2022, 14, e349-e358.	1.2	4
358	Fracture resistance of polyetheretherketone, Ni-Cr, and fiberglass postcore systems: An in vitro study. Dental Research Journal, 2022, 19, 20.	0.6	3
359	Mechanical Degradation of Biopolymers for Enhanced Oil Recovery Applications. SPE Journal, 2022, 27, 2052-2072.	3.1	2
360	Attachment and Osteogenic Potential of Dental Pulp Stem Cells on Non-Thermal Plasma and UV Light Treated Titanium, Zirconia and Modified PEEK Surfaces. Materials, 2022, 15, 2225.	2.9	8
361	Thermal, Mechanical and Biocompatibility Analyses of Photochemically Polymerized PEGDA250 for Photopolymerization-Based Manufacturing Processes. Pharmaceutics, 2022, 14, 628.	4.5	10
362	Effect of Fiber Type and Content on Mechanical Property and Lapping Machinability of Fiber-Reinforced Polyetheretherketone. Polymers, 2022, 14, 1079.	4.5	4
363	Efficacy of contemporary agents on disinfection and surface roughness of polyetheretherketone implant abutments. Photodiagnosis and Photodynamic Therapy, 2022, , 102798.	2.6	0
364	3D Printed Strontium and Zinc Doped Hydroxyapatite Loaded PEEK for Craniomaxillofacial Implants. Polymers, 2022, 14, 1376.	4.5	14
365	Cellular properties of human gingival fibroblasts on novel and conventional implant-abutment materials. Dental Materials, 2022, 38, 540-548.	3.5	10
366	Evaluation of flexural strength of denture base repaired by various materials and techniques. International Journal of Health Sciences, 0, , 1459-1468.	0.1	1
367	Effect of aluminium oxide, titanium oxide, hydroxyapatite filled dental restorative composite materials on physico-mechanical properties. Ceramics International, 2022, 48, 20306-20314.	4.8	18
368	Fracture load of different veneered and implant-supported 4-UNIT cantilever PEEK fixed dental prostheses. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105173.	3.1	3
369	Ultrasonic welding of polyetheretherketone for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105225.	3.1	4
370	Shear bond characteristics and surface roughness of poly-ether-ether-ketone treated with contemporary surface treatment regimes bonded to composite resin. Photodiagnosis and Photodynamic Therapy, 2022, 38, 102765.	2.6	8

#	Article	IF	Citations
371	Denture base adaptation, retention, and mechanical properties of BioHPP versus nano-alumina-modified polyamide resins. Journal of Dental Research, Dental Clinics, Dental Prospects, 2021, 15, 239-246.	1.0	2
372	Endowing Polyetheretherketone Implants with Osseointegration Properties: In Situ Construction of Patterned Nanorod Arrays. Small, 2022, 18, e2105589.	10.0	16
373	Comparison of some physical properties of CAD/CAM millled PEEK and PMMA with conventional denture base materials. Mersin Äœniversitesi SaÄŸlÄ±k Bilimleri Dergisi, 2021, 14, 484-494.	0.4	1
374	Optimization of a knee implant with different biomaterials using finite element analysis. Materials Today: Proceedings, 2022, 59, 459-467.	1.8	7
375	Trends in Metal-Based Composite Biomaterials for Hard Tissue Applications. Jom, 2022, 74, 102-125.	1.9	3
376	Clinical performance of polymer frameworks in dental prostheses: A systematic review. Journal of Prosthetic Dentistry, 2024, 131, 579-590.	2.8	7
377	Removable Partial Denture Frameworks in the Age of Digital Dentistry: A Review of the Literature. Prosthesis, 2022, 4, 184-201.	2.9	4
378	Use of Nd:YVO4 laser, photodynamic therapy, sulfuric acid and sand blasting on improving bond integrity of PEEK to resin cement with adhesive. Photodiagnosis and Photodynamic Therapy, 2022, 39, 102865.	2.6	12
379	Improved Mechanical Properties and Bioactivity of Silicate Based Bioceramics Reinforced Poly(ether-ether-ketone) Nanocomposites for Prosthetic Dental Implantology. Polymers, 2022, 14, 1632.	4.5	10
380	Assessment of Customized Alveolar Bone Augmentation Using Titanium Scaffolds vs Polyetheretherketone (PEEK) Scaffolds: A Comparative Study Based on 3D Printing Technology. ACS Biomaterials Science and Engineering, 2022, 8, 2028-2039.	5.2	11
382	PEEK Biomaterial in Long-Term Provisional Implant Restorations: A Review. Journal of Functional Biomaterials, 2022, 13, 33.	4.4	14
383	A comparison of undergraduate prosthodontic teaching of removable partial dentures in Saudi Arabian dental colleges with North American and Turkish dental schools. Journal of International Society of Preventive and Community Dentistry, 2021, 11, 144.	1.0	1
385	Barrier Membrane in Regenerative Therapy: A Narrative Review. Membranes, 2022, 12, 444.	3.0	23
386	Influence of different surface treatments on the shear strength between acrylic resin and two materials: Polyether Ether Ketone (PEEK) / ZANTEXR. Research, Society and Development, 2022, 11, e51811629608.	0.1	1
387	The use of PEEK as an occlusal splint in a patient with histaminosis: A case report. Special Care in Dentistry, 2022, 42, 646-650.	0.8	5
388	Tailoring the biologic responses of 3D printed PEEK medical implants by plasma functionalization. Dental Materials, 2022, 38, 1083-1098.	3.5	20
389	3D Printed Microporous PEEK/Nano-Hydroxyapatite Biomaterials for Brain Repair. Advances in Clinical Medicine, 2022, 12, 4349-4354.	0.0	0
390	Monte Carlo calculations of radiotherapy dose distributions within and around orthopaedic implants. Physics and Imaging in Radiation Oncology, 2022, 22, 123-130.	2.9	3

#	Article	IF	Citations
391	Shear bond strength of different luting agents to polyether ether ketone. Dental Research Journal, 2022, 19, 45.	0.6	0
392	Comparative analysis of stress and deformation distribution in implant supported telescopic systems made of different materials. Vojnosanitetski Pregled, 2022, , 49-49.	0.2	0
393	Retention ofÂbar clip attachment for mandibular implant overdenture. BMC Oral Health, 2022, 22, .	2.3	5
394	Insufficient Evidence to Ascertain the Long-Term Survival of PEEK Dental Prostheses: A Systematic Review of Clinical Studies. Polymers, 2022, 14, 2441.	4.5	7
395	Biomimetic Implant Surfaces and Their Role in Biological Integrationâ€"A Concise Review. Biomimetics, 2022, 7, 74.	3.3	13
396	Effect of Various Retentive Element Materials on Retention of Mandibular Implant-Retained Overdentures. Molecules, 2022, 27, 3925.	3.8	4
397	Thermal spray copper-based coatings against contamination of thermoplastic surfaces: A systematic review. Engineering Science and Technology, an International Journal, 2022, 35, 101194.	3.2	5
398	Effects of Periodontal Splints on Biomechanical Behaviors in Compromised Periodontal Tissues and Cement Layer: 3D Finite Element Analysis. Polymers, 2022, 14, 2835.	4.5	1
399	Using Kubelka-Munk reflectance theory to predict optimal pink composite thickness and shade with an opaqued PEEK background for a final gingival color: An in vitro study. Dental Materials, 2022, 38, 1452-1458.	3.5	6
400	Stress Distribution Pattern in Zygomatic Implants Supporting Different Superstructure Materials. Materials, 2022, 15, 4953.	2.9	12
401	Evaluating patientsâ€™ satisfaction level after using 3D printed PEEK facial implants in repairing maxillofacial deformities. Annals of Medicine and Surgery, 2022, 79, .	1.1	2
402	In-Vitro evaluation of fracture strength of zirconia and peek anterior FPD Framework. International Journal of Health Sciences, 0, , 484-494.	0.1	0
403	Modification strategies for improving antibacterial properties of polyetheretherketone. Journal of Applied Polymer Science, 2022, 139, .	2.6	9
404	Mechanical analysis of three-unit metal-free fixed dental prostheses produced in different materials with CAD/CAM technology. Clinical Oral Investigations, 2022, 26, 5969-5978.	3.0	3
405	Understanding the relation between pulse duration and topography evolution of polyether ether ketones textures by ultraâ€šshort IRâ€‹laser interference patterning. Advanced Engineering Materials, 0, , .	3.5	1
406	Evaluation of the mechanical properties and fit of 3D-printed polyetheretherketone removable partial dentures. Dental Materials Journal, 2022, 41, 816-823.	1.8	5
407	Characterization and Testing the properties of PEKK- Strontium- hydroxyapatite composite material. Research Journal of Pharmacy and Technology, 2022, , 3034-3040.	0.8	3
408	Immobilization of chitosan on polyether ether ketone surface modified with acrylic acid by UV-induced graft polymerization. Iranian Polymer Journal (English Edition), 2022, 31, 1399-1407.	2.4	3

#	Article	IF	Citations
409	Performance of polyether ether ketone (peek) for dental applications: surface roughness and color stability. Polymer Bulletin, 0, , .	3.3	0
410	Subgaleal Effusion and Brain Midline Shift After Cranioplasty: A Retrospective Study Between Polyetheretherketone Cranioplasty and Titanium Cranioplasty After Decompressive Craniectomy. Frontiers in Surgery, 0, 9, .	1.4	1
411	characteristics tests of the PEKK-titanium oxide composite material. International Journal of Health Sciences, 0, , 1569-1576.	0.1	0
412	Mechanical, Chemical, and Biological Properties of 3D-Printed Abutments: A Systematic Review. Journal of Advanced Oral Research, 0, , 232020682210997.	1.1	0
413	Antimicrobial incorporation on 3D-printed polymers used as potential dental materials and biomaterials: a systematic review of the state of the art. Polymer Bulletin, 0, , .	3.3	2
414	An Updated Review of Salivary pH Effects on Polymethyl Methacrylate (PMMA)-Based Removable Dental Prostheses. Polymers, 2022, 14, 3387.	4.5	9
415	Study on the surface properties of different commercially available <scp>CAD</scp>/<scp>CAM</scp> materials for implantâ€supported restorations. Journal of Esthetic and Restorative Dentistry, 2022, 34, 1132-1141.	3.8	5
416	Finite Element Study of PEEK Materials Applied in Post-Retained Restorations. Polymers, 2022, 14, 3422.	4.5	6
417	Human osteoblasts response to different dental implant abutment materials: An in-vitro study. Dental Materials, 2022, 38, 1547-1557.	3.5	1
418	Enhanced anti-microbial activity and osseointegration of Ta/Cu co-implanted polyetheretherketone. Colloids and Surfaces B: Biointerfaces, 2022, 218, 112719.	5.0	6
419	Biomechanical performance of Ti-PEEK dental implants in bone: An in-silico analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 134, 105422.	3.1	16
420	Strategies to improve bioactive and antibacterial properties of polyetheretherketone (PEEK) for use as orthopedic implants. Materials Today Bio, 2022, 16, 100402.	5.5	36
421	Dual-functional polyetheretherketone surface with programmed sequential drug release coating. Colloids and Surfaces B: Biointerfaces, 2022, 219, 112806.	5.0	6
422	A study of the tensile bond strength between Polyetherketoneketone (PEKK) and various veneered denture base resin. The Journal of Korean Academy of Prosthodontics, 2022, 60, 231.	0.1	0
423	Synergistic Effect of Sulfonation Followed Precipitation of Amorphous Calcium Phosphate on the Bone-Bonding Strength of Carbon-Fiber-Reinforced Peek. SSRN Electronic Journal, 0, , .	0.4	0
424	Contemporary Applications of 3D Printing in Prosthodontics. , 2022, , 151-197.		0
425	Biomechanical and osteointegration study of 3D-printed porous PEEK hydroxyapatite-coated scaffolds. Journal of Biomaterials Science, Polymer Edition, 2023, 34, 435-448.	3.5	2
426	Additive Manufactured Polymers in Dentistry, Current State-of-the-Art and Future Perspectives-A Review. Polymers, 2022, 14, 3658.	4.5	18

#	Article	IF	Citations
427	Host-microbiome interactions regarding peri-implantitis and dental implant loss. Journal of Translational Medicine, 2022, 20, .	4.4	16
429	Fused Deposition Modeling PEEK Implants for Personalized Surgical Application: From Clinical Need to Biofabrication. International Journal of Bioprinting, 2022, 8, 615.	3.4	7
430	Zirconia-veneered polyetherketoneketone frameworks of implant-supported complete arch fixed dental prostheses: A report on 5 patients. Journal of Prosthetic Dentistry, 2023, 130, 419-433.	2.8	0
431	Finite element analysis of the biomechanical effects of titanium and Cfr-peek additively manufactured subperiosteal jaw implant (AMSJI) on maxilla. Journal of Stomatology, Oral and Maxillofacial Surgery, 2023, 124, 101290.	1.3	5
432	Adhesion concepts and techniques for laboratory-processed indirect dental restorations. Saudi Dental Journal, 2022, 34, 661-668.	1.6	1
433	Esthetic rehabilitation for a Kennedy Class IV patient using detachable 3D printing diagnostic denture and removable partial denture with polyetheretherketone framework. Heliyon, 2022, 8, e10834.	3.2	2
434	Mechanical Properties of Fused Deposition Modeling of Polyetheretherketone (PEEK) and Interest for Dental Restorations: A Systematic Review. Materials, 2022, 15, 6801.	2.9	9
435	Clinical Applications of Polyetheretherketone in Removable Dental Prostheses: Accuracy, Characteristics, and Performance. Polymers, 2022, 14, 4615.	4.5	14
436	Two Gingival Cell Lines Response to Different Dental Implant Abutment Materials: An In Vitro Study. Dentistry Journal, 2022, 10, 192.	2.3	1
437	Influence of Aging on the Fracture Characteristics of Polyetheretherketone Dental Crowns: A Preliminary Study. Polymers, 2022, 14, 4123.	4.5	1
439	Fabrication of Maxillary Obturator Using Combination of PEEK, Acrylic Resin, and Silicone: A Case Report. International Journal of Prosthodontics and Restorative Dentistry, 2022, 12, 46-50.	0.1	0
440	On Mechanical, Physical, and Bioactivity Characteristics of Material Extrusion Printed Polyether Ether Ketone. Journal of Materials Engineering and Performance, 2023, 32, 5885-5894.	2.5	3
441	Effects of Autoclave Sterilization and Multiple Use on Implant Scanbody Deformation In Vitro. Materials, 2022, 15, 7717.	2.9	2
442	Hydrogel-based therapeutic coatings for dental implants. European Polymer Journal, 2022, 181, 111652.	5.4	11
443	Biomechanical performance evaluation of composite metamaterial implant with 3D printing approach for lumbar interbody fusion surgery: A finite element study. Composite Structures, 2023, 303, 116379.	5.8	3
444	Current surface modification strategies to improve the binding efficiency of emerging biomaterial polyetheretherketone (PEEK) with bone and soft tissue: A literature review. Journal of Prosthodontic Research, 2022, 67, 337-347.	2.8	4
445	Influence of fabrication method on the biological properties of modified PEEK. Dental Materials Journal, 2023, , .	1.8	0
446	Polyetheretherketone/<scp>Nanoâ€Agâ€TiO₂</scp> composite with mechanical properties and antibacterial activity. Journal of Applied Polymer Science, 2023, 140, .	2.6	3

#	Article	IF	Citations
447	Strengthening and toughening behaviours and mechanisms of carbon fiber reinforced polyetheretherketone composites (CF/PEEK). Composites Communications, 2023, 37, 101397.	6.3	9
448	Influence of the Peek Abutments on Mechanical Behavior of the Internal Connections Single Implant. Materials, 2022, 15, 8133.	2.9	3
449	Immunohistochemical analysis of soft tissue response to polyetheretherketone (PEEK) and titanium healing abutments on dental implants: a randomized pilot clinical study. BMC Oral Health, 2022, 22, .	2.3	2
450	Preparation and Characterization of a Polyetherketoneketone/Hydroxyapatite Hybrid for Dental Applications. Journal of Functional Biomaterials, 2022, 13, 220.	4.4	5
451	Optimization of the dimension of computer numerical controlâ€“milled polyetheretherketone clasps: An inÂvitro evaluation of accuracy. Journal of Prosthetic Dentistry, 2022, , .	2.8	2
452	Clinical report of six-month follow-up after cementing PEEK crown on molars. Scientific Reports, 2022, 12, .	3.3	7
453	Blending strategy to modify PEEK-based orthopedic implants. Composites Part B: Engineering, 2023, 250, 110427.	12.0	15
454	Current treatment methods to improve the bioactivity and bonding strength of PEEK for dental application: A systematic review. European Polymer Journal, 2023, 183, 111757.	5.4	7
455	Functional engineering strategies of 3D printed implants for hard tissue replacement. International Journal of Energy Production and Management, 2023, 10, .	3.7	4
456	Evaluation of stress and strain on mandible caused using â€œAll-on-Fourâ€•system from PEEK in hybrid prosthesis: finite-element analysis. Odontology / the Society of the Nippon Dental University, 2023, 111, 618-629.	1.9	7
457	Bio-Activated PEEK: Promising Platforms for Improving Osteogenesis through Modulating Macrophage Polarization. Bioengineering, 2022, 9, 747.	3.5	1
458	Tribological Properties of Carbon Fiber-Reinforced PEEK against 304 Stainless Steel with Reticulate Surface Texture. Materials, 2022, 15, 8789.	2.9	2
459	Use of Piranha Solution as An Alternative Route to Promote Bioactivation of PEEK Surface with Low Functionalization Times. Molecules, 2023, 28, 74.	3.8	1
460	Factors influencing retention and durability of attachments for overdentures â€“ adverse effects of cleansings, pH, and temperature: A systematic review. Heliyon, 2022, 8, e12411.	3.2	3
461	The Use of Polyetheretherketone (PEEK) as an Alternative Post and Core Material: Five-Year Follow-Up Report. Dentistry Journal, 2022, 10, 237.	2.3	4
462	Surface Modifications of High-Performance Polymer Polyetheretherketone (PEEK) to Improve Its Biological Performance in Dentistry. Polymers, 2022, 14, 5526.	4.5	13
463	Assessing biocompatibility & mechanical testing of 3D-printed PEEK versus milled PEEK. Heliyon, 2022, 8, e12314.	3.2	11
464	Biomaterials and Clinical Applications of Customized Healing Abutmentâ€”A Narrative Review. Journal of Functional Biomaterials, 2022, 13, 291.	4.4	14

#	Article	IF	Citations
465	Nanotopographical cues for regulation of macrophages and osteoclasts: emerging opportunities for osseointegration. Journal of Nanobiotechnology, 2022, 20, .	9.1	10
468	The overview of antimicrobial peptideâ€coated implants against oral bacterial infections. Aggregate, 2023, 4, .	9.9	15
469	PEEK for Oral Applications: Recent Advances in Mechanical and Adhesive Properties. Polymers, 2023, 15, 386.	4.5	32
470	In Vivo Biofilm Formation on Novel PEEK, Titanium, and Zirconia Implant Abutment Materials. International Journal of Molecular Sciences, 2023, 24, 1779.	4.1	12
471	Characterization and Assessment of PEEK/Silicon Dioxide Composite. International Journal of Dentistry, 2023, 2023, 1-9.	1.5	1
472	PROPERTIES OF PEEK- A NARRATIVE REVIEW. , 2022, , 9-10.		0
473	Additive manufacturing technologies in the oral implant clinic: A review of current applications and progress. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	12
474	Synergistic effect of sulfonation followed by precipitation of amorphous calcium phosphate on the bone-bonding strength of carbon fiber reinforced polyetheretherketone. Scientific Reports, 2023, 13, .	3.3	2
475	Polyetherketoneketone Mesh for Alveolar Bone Augmentation: Geometric Parameter Design and Finite Element Analysis. Journal of Healthcare Engineering, 2023, 2023, 1-12.	1.9	1
476	Polyether ether ketones (PEEK): Properties and applications as implants for alternative dentistry materials: A narrative review. Journal of International Oral Health, 2023, 15, 28.	0.3	1
477	Comparing the shear bond strength of veneering materials to the PAEKs after surface treatments. BMC Oral Health, 2023, 23, .	2.3	1
478	A comprehensive review: Different approaches for encountering of bacterial infection of dental implants and improving their properties. Journal of Drug Delivery Science and Technology, 2023, 84, 104401.	3.0	3
479	Biomechanical investigation of maxillary implant-supported full-arch prostheses produced with different framework materials: a finite elements study. Journal of Advanced Prosthodontics, 2022, 14, 346.	2.6	1
480	Additive Manufacturing of Polyetheretherketone (PEEK) and its Application in Medical Implants. , 0, 32, 13-18.		0
481	Biocompatibility and osteoinductive ability of casein phosphopeptide modified polyetheretherketone. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	0
482	Design, Analysis, and 3D Printing of a Patient-Specific Polyetheretherketone Implant for the Reconstruction of Zygomatic Deformities. Polymers, 2023, 15, 886.	4.5	10
483	Structural, mechanical and cytotoxic properties of Ta-doped diamond-like carbon films deposited via radio frequence magnetron sputtering on polyether ether ketone. Thin Solid Films, 2023, 769, 139736.	1.8	1
484	Amyloid-Mediated Nanoarchitectonics with Biomimetic Mineralization of Polyetheretherketone for Enhanced Osseointegration. ACS Applied Materials & Interfaces, 2023, 15, 10426-10440.	8.0	8

#	Article	IF	Citations
485	Retentive Forces and Deformation of Fitting Surface in RPD Clasp Made of Polyether-Ether-Ketone (PEEK). Polymers, 2023, 15, 956.	4.5	3
486	Achieving toughening of PEEK via preparation of thermally stable and crystalline PEKEKK nanospheres by microemulsion method. Polymer, 2023, 270, 125809.	3.8	0
487	Etilen Oksit Sterilizasyonunun PEEK BazlÄ± Dental Ä°mplantÄ±n Kimyasal YapÄ±sÄ± Ãœzerine Etkisi. UluslararasÄ± Muhendislik Arastirma Ve Gelistirme Dergisi, 2023, 15, 139-150.	0.2	0
488	Using an Attachment System with PEEK Matrices for Single-Implant Overdentures: In Vitro Retention Force. Journal of Clinical Medicine, 2023, 12, 2159.	2.4	0
489	Bacterial Adhesion on Dental Polymers as a Function of Manufacturing Techniques. Materials, 2023, 16, 2373.	2.9	4
490	Internal Adaptation and Marginal Accuracy of Two Different Techniques-based Poly (ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	1
491	A digital workflow for complete arch rehabilitation with zirconia crowns on restored posterior teeth and a polyetheretherketone framework denture. Journal of Prosthetic Dentistry, 2023, , .	2.8	1
492	The Effects of Different Molding Orientations, Highly Accelerated Aging, and Water Absorption on the Flexural Strength of Polyether Ether Ketone (PEEK) Fabricated by Fused Deposition Modeling. Polymers, 2023, 15, 1602.	4.5	3
493	Evaluation of Osteoblastic Activity of Polyether Ether Ketone Modified by Ultraviolet Radiation: An In Vitro Study. International Journal of Prosthodontics and Restorative Dentistry, 2023, 12, 106-109.	0.1	0
494	Comparative evaluation of internal fit and marginal gap of endocrowns using lithium disilicate and polyether ether ketone materials - an in vitro study. BMC Oral Health, 2023, 23, .	2.3	2
495	Micro-CT analysis of marginal and internal fit of milled and pressed polyetheretherketoneÂsingle crowns. Journal of Prosthetic Dentistry, 2023, , .	2.8	2
497	Description of Poly(aryl-ether-ketone) Materials (PAEKs), Polyetheretherketone (PEEK) and Polyetherketoneketone (PEKK) for Application as a Dental Material: A Materials Science Review. Polymers, 2023, 15, 2170.	4.5	8
498	Aesthetics of Claps in Removable Partial Denture - A Literature Review. International Journal of Advanced Dental Sciences and Technology, 2023, 2, 1-4.	0.0	2
499	Application of polyetheretherketone (PEEK) posts: evaluation of fracture resistance and stress distribution in the root: in vitro and finite element analyses. Brazilian Oral Research, 0, 37, .	1.4	3
500	Effect of thermomechanical aging on the surface roughness and color stability of novel CAD-CAM materials: An in-vitro study. Clinical and Experimental Health Sciences, 2023, 13, 385-390.	0.5	0
501	Polyetheretherketone (PEEK) as a Potential Material for the Repair of Maxillofacial Defect Compared with E-poly(tetrafluoroethylene) (e-PTFE) and Silicone. ACS Biomaterials Science and Engineering, 2023, 9, 4328-4340.	5.2	4
502	Atomic Oxygen-Induced Surface Erosion Behavior and Mechanical Degradation of Polyether Ether Ketone via Reactive Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2023, 127, 5509-5520.	2.6	1
503	Strength and bioactivity of PEEK composites containing multiwalled carbon nanotubes and bioactive glass. Journal of the Mechanical Behavior of Biomedical Materials, 2023, 144, 105964.	3.1	1

#	Article	IF	Citations
504	A comprehensive mechanical characterization of as-printed and saliva soaked 3D printed PEEK specimens for low-cost dental implant applications. Materials Today Communications, 2023, 36, 106438.	1.9	1
505	Using Peek as a Framework Material for Maxillofacial Silicone Prosthesis: An In Vitro Study. Polymers, 2023, 15, 2694.	4.5	1
506	Modeling the Influence of Nanosized Fillers on the Mechanical Properties and Wear Resistance of a Composite Based on Polyether Ether Ketone. Journal of Machinery Manufacture and Reliability, 2023, 52, 241-245.	0.5	0
507	Influence of Restorative Material on the Distribution of Loads to the Bone in Hybrid Abutment Crownsâ€"In Vitro Study. Medicina (Lithuania), 2023, 59, 1188.	2.0	1
508	Hybrid Prosthesis versus Overdenture: Effect of BioHPP Prosthetic Design Rehabilitating Edentulous Mandible. International Journal of Dentistry, 2023, 2023, 1-11.	1.5	0
509	Dental implant bio materials - From metal to PEEK polymer. IP International Journal of Periodontology and Implantology, 2023, 8, 75-79.	0.1	0
510	Fabrication and characterization of bioactive composite: A pilot study. Journal of Composite Materials, 2023, 57, 2955-2969.	2.4	4
511	Clinical Comparative Study for Validation of Digital Impression Reliability with the Gypsum Check: A Simple and Fast Way to Evaluate the Trueness and Accuracy of Implant-Supported Rehabilitation. Applied Sciences (Switzerland), 2023, 13, 7358.	2.5	0
512	Current Evidence on the Use of PEEK as Implant Abutment Material. International Journal of Prosthodontics and Restorative Dentistry, 2023, 13, 55-55.	0.1	0
513	Polyetheretherketone development in bone tissue engineering and orthopedic surgery. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	5
514	Zeolites and zeolite imidazolate frameworks on a quest to obtain the ideal biomaterial for biomedical applications: A review. Materials Today, 2023, 67, 495-517.	14.2	5
515	Modulation of implants PEEK to composite resin shear bond strength and surface roughness on pre-treatment with contemporary air abrasion techniques vs photodynamic therapy vs conventional diamond grit bur. Photodiagnosis and Photodynamic Therapy, 2023, 43, 103689.	2.6	0
516	Mandibular bone remodeling around osseointegrated functionally graded biomaterial implant using three dimensional finite element model. International Journal for Numerical Methods in Biomedical Engineering, 2023, 39, .	2.1	8
517	Effect of polydopamine coating on adhesion of resin composite to polyetherketoneketone (PEKK). International Journal of Adhesion and Adhesives, 2023, 125, 103445.	2.9	0
518	A Comprehensive Review on Manufacturing and Characterization of Polyetheretherketone Polymers for Dental Implant Applications. 3D Printing and Additive Manufacturing, 0, , .	2.9	0
519	Feasibility of 3D-Printed Locking Compression Plates with Polyether Ether Ketone (PEEK) in Tibial Comminuted Diaphyseal Fractures. Polymers, 2023, 15, 3057.	4.5	1
520	Bacterial Biofilm Formation on Biomaterials and Approaches to Its Treatment and Prevention. International Journal of Molecular Sciences, 2023, 24, 11680.	4.1	9
521	Material Considerations for Full-Arch Implant-Supported Restorations. BDJ Clinician's Guides, 2023, , 337-358.	0.2	0

#	Article	IF	Citations
522	Mechanical properties, biosafety, and shearing bonding strength of glass fiberâ€“reinforced PEEK composites used as post-core materials. Journal of the Mechanical Behavior of Biomedical Materials, 2023, 145, 106047.	3.1	5
523	Polymeric Denture Base Materials: A Review. Polymers, 2023, 15, 3258.	4.5	15
524	Consequences of using poly-ether-ether-ketone versus traditional implant on tibial cement penetration and short-term clinical outcomes during total knee arthroplasty: a randomized controlled trial. Journal of Orthopaedic Surgery and Research, 2023, 18, .	2.3	1
525	Patient-specific PEEK implant for treatment of temporal myositis ossificans (five years follow-up): A case report. Journal of Stomatology, Oral and Maxillofacial Surgery, 2023, 124, 101593.	1.3	2
526	Clinical Applications and Mechanical Properties of CAD-CAM Materials in Restorative and Prosthetic Dentistry: A Systematic Review. Journal of Functional Biomaterials, 2023, 14, 431.	4.4	2
527	Fabrication and characterization of PEKK nanocomposites: An in vitro study. Journal of Thermoplastic Composite Materials, 0, , .	4.2	1
528	Laser functionalization: An emerging modality to enhance the osseointegration potential of polyetheretherketone as a dental implant material. Journal of Dental Research and Review, 2023, 10, 74.	0.1	0
529	Polyetheretherketone (PEEK) as a Biomaterial: An Overview. Cureus, 2023, , .	0.5	3
530	Evaluation of Poly(etheretherketone) Postâ€™s Mechanical Strength in Comparison with Three Metal-Free Biomaterials: An In Vitro Study. Polymers, 2023, 15, 3583.	4.5	1
531	Influence of Placement of Ultrashort Implant at Sub-Crestal, Crestal and Supra-Crestal Level with Titanium or Polyetheretherketone Hybrid Abutment: 3D Finite Element Analysis. Prosthesis, 2023, 5, 721-732.	2.9	4
532	Materialsâ€Mediated In Situ Physical Cues for Bone Regeneration. Advanced Functional Materials, 2024, 34, .	14.9	6
533	The Mechanical, Thermal, and Biological Properties of Materials Intended for Dental Implants: A Comparison of Three Types of Poly(aryl-ether-ketones) (PEEK and PEKK). Polymers, 2023, 15, 3706.	4.5	3
534	Mechanical, microstructural and numerical investigations of 3D printed carbon fiber reinforced PEEK. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2024, 238, 2131-2139.	2.1	1
535	Accuracy of digitally coded healing abutments: A systematic review. Saudi Dental Journal, 2023, 35, 891-903.	1.6	0
536	Three-Dimensional Printing Technology Using Biomaterials for Bone Regeneration. The Journal of the Korean Orthopaedic Association, 2023, 58, 311.	0.1	0
537	Comparison of the Retention and Fit of Polyether Ether Ketone Clasps during Fatigue Circulation Tests. Heliyon, 2023, 9, e19959.	3.2	0
539	Oral microbial colonization on titanium and polyetheretherketone dental implant healing abutments: An in vitro and in vivo study. Journal of Prosthetic Dentistry, 2023, , .	2.8	1
540	Compressive mechanical properties of hierarchical porous bioactivity PEEK gradient materials. Mechanics of Advanced Materials and Structures, 2024, 31, 493-500.	2.6	0

#	Article	IF	Citations
541	Recent development of dental implant materials, synthesis process, and failure â€“ A review. Results in Chemistry, 2023, 6, 101136.	2.0	5
542	Additive Manufacturing of Functionalized Material Systems for Medical Applications: Potentials and Challenges in Additive Manufacturing. Springer Tracts in Additive Manufacturing, 2024, , 253-263.	0.8	0
543	Polyetheretherketone Material in Dentistry. Cureus, 2023, , .	0.5	0
544	Comparison of Fracture Resistance between Different Treatment Modalities of Mutilated Endodontically Treated Teeth Using Polyether Ether Ketone. Journal of Contemporary Dental Practice, 2023, 24, 668-673.	0.5	1
545	Nano-topographical surface engineering for enhancing bioactivity of PEEK implants (in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 582 Td (vit	3.0	1
546	An HA/PEEK scaffold with modified crystallinity via 3D-bioprinting for multiple applications in hard tissue engineering. Biomedical Materials (Bristol), 0, , .	3.3	0
547	State-of-the-art polyetheretherketone three-dimensional printing and multifunctional modification for dental implants. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	1
548	An Explorative Evaluation on the Influence of Filler Content of Polyetheretherketone (PEEK) on Adhesive Bond to Different Luting Resin Cements. Journal of Composites Science, 2023, 7, 456.	3.0	0
549	A Composite of Polyether Ether Ketone and Silicaâ€Coated Copper Particles for Creating Tailored Conductive Tracks via Laser Printing. Macromolecular Materials and Engineering, 2024, 309, .	3.6	0
550	Novel Carboxylation Method for Polyetheretherketone (PEEK) Surface Modification Using Friedelâ€“Crafts Acylation. International Journal of Molecular Sciences, 2023, 24, 15651.	4.1	0
551	Biomechanical Behavior of Carbon Fiber-Reinforced Polyetheretherketone as a Dental Implant Material in Implant-Supported Overdenture under Mandibular Trauma: A Finite Element Analysis Study. Nigerian Journal of Clinical Practice, 2023, 26, 1538-1546.	0.6	0
553	Titanium particles in peri-implantitis: distribution, pathogenesis and prospects. International Journal of Oral Science, 2023, 15, .	8.6	1
554	Biomaterials and Clinical Application of Dental Implants in Relation to Bone Densityâ€”A Narrative Review. Journal of Clinical Medicine, 2023, 12, 6924.	2.4	2
555	Synthesis and Characterization of Silver â€“doped Hydroxyapatite-Coated Polyether ether ketone for Dental Applications. , 2023, , .		0
556	PEEK surface treatment on surface roughness and bond integrity to composite resin utilizing Er: YAG, Rosebengal activated by PDT, and aluminum trioxide particles. Photodiagnosis and Photodynamic Therapy, 2023, 44, 103879.	2.6	0
557	Evaluation and Assessment of the Colour Stability of Modified Polymethyl Methacrylate Denture Base Materials and Polyether Ether Ketone in a Cast Partial Denture Framework: An In-Vitro Study. Cureus, 2023, , .	0.5	0
558	Comparison of the Surface Roughness of CAD/CAM Metal-Free Materials Used for Complete-Arch Implant-Supported Prostheses: An In Vitro Study. Biomedicines, 2023, 11, 3036.	3.2	1
559	The Use of Polyetheretherketone (PEEK) in Implant Prosthetics: A Detailed Review of the Literature. Journal of Clinical Advances in Dentistry, 2023, 7, 034-040.	0.2	0

#	Article	IF	Citations
560	A new strategy for PEEK-based biocomposites to achieve porous surface for bioactivity and adjustable mechanical properties for orthopedic stress matching. Composites Part A: Applied Science and Manufacturing, 2024, 177, 107909.	7.6	0
561	Carbon fiber with reinforced polyetheretherketone (CFR-PEEK) plating and nailing for intercalary resection with tibial allograft reconstruction in two oncologic patients. , 2024, 3, 100263.		0
562	Pre-compositing polyetherketoneketone with short-cut carbon fibers into advanced powder materials toward composites with fully-adhered interfaces. Composites Part A: Applied Science and Manufacturing, 2024, 177, 107930.	7.6	0
563	Recent Advances in 3D Printing of Polymers for Application in Prosthodontics. Polymers, 2023, 15, 4525.	4.5	3
564	Advances in Dentures: Novel Polymeric Materials and Manufacturing Technologies. Dentistry, 0, , .	0.0	0
565	A New Promising Material for Biological Applications: Multilevel Physical Modification of AgNP-Decorated PEEK. Nanomaterials, 2023, 13, 3079.	4.1	0
566	Advances in reparative materials for infectious bone defects and their applications in maxillofacial region.. Journal of Materials Chemistry B, 0, , .	5.8	0
567	Prioritizing biomaterials for spinal disc implants by a fuzzy AHP and TOPSIS decision making method. Scientific Reports, 2023, 13, .	3.3	0
568	Flexural strength, surface roughness, and biofilm formation of ceramicâ€reinforced PEEK: An in vitro comparative study. Journal of Prosthodontics, 0, , .	3.7	0
569	Effect of Ferrule Design on Stress Distribution of Maxillary Incisor Rehabilitated with Ceramic Crown and PEEK Postâ€“Core Material: A 3D Finite Element Analysis. Ceramics, 2023, 6, 2256-2268.	2.6	1
570	APPLICATION OF PEEK: A FUTURE REVOLUTION IN PROSTHODONTICS. , 0, 1, 56-63.		0
571	Taguchi-Based Experimental Investigation and Modeling of 3D-Printed PEEK Parts as Biomedical Implants using Fused Deposition Modeling for Improving Mechanical Strength and Surface Quality. Journal of Materials Engineering and Performance, 0, , .	2.5	0
572	Effect of Ridge Splitting of Mandibular Knife Edge Ridges with Two-implant Retained Overdenture with Locator Attachments on Peri-implant Bone Level and Posterior Ridge Resorption: A One-year Preliminary Study. Journal of Contemporary Dental Practice, 2024, 24, 834-839.	0.5	0
574	Surface modification affects human gingival epithelial cell behavior on polyetheretherketone surfaces. Dental Materials Journal, 2024, 43, 191-199.	1.8	0
575	The effect of aging on the accuracy of marginal adaptation and fracture resistance of CAD/CAM PEEK single crown restoration. Brazilian Journal of Oral Sciences, 0, 23, .	0.1	0
576	Impact Strength of Thermopolymerized Poly(methylmethacrylate) Denture Resin Incorporated with Polyetheretherketone Microparticles at Various Concentrations: An In Vitro Research. World Journal of Dentistry, 2024, 14, 1108-1111.	0.3	0
577	Surface-activated 3D-printed PEEK implant enhances anti-infection and osteogenesis. Composites Part B: Engineering, 2024, 273, 111258.	12.0	0
578	Esthetic Rehabilitation of a Post-trauma Patient Using Anterior Block Graft and Screw-retained Prosthesis over Ceramic-reinforced Polyetheretherketone Abutment: A Case Report. Journal of Postgraduate Medicine Education and Research, 2024, 58, 27-32.	0.1	0

#	Article	IF	Citations
579	Bone ingrowth into a porous structure is achieved by preceding fibrogenesis and vascularization. Acta Biomaterialia, 2024, 177, 243-252.	8.3	0
580	Evaluation and assessment of the wettabilty and water contact angle of modified poly methyl methacrylate denture base materials against PEEK in cast partial denture framework: an in vitro study. BMC Oral Health, 2024, 24, .	2.3	0
581	A Brief Review on PEEK as biomaterial, Importance of Implant Design, 3D Printing and FEA in Dental Implant. E3S Web of Conferences, 2024, 491, 01017.	0.5	0
582	Endoscopic-Assisted Forehead Augmentation with Polyetheretherketone (PEEK) Patient-Specific Implant (PSI) for Aesthetic Considerations. Aesthetic Plastic Surgery, 0, , .	0.9	0
583	Research Progress of Antimicrobial Modification of Medical Polyetheretherketone. Advances in Clinical Medicine, 2024, 14, 4059-4066.	0.0	0
584	Use of Biomaterials in 3D Printing as a Solution to Microbial Infections in Arthroplasty and Osseous Reconstruction. Biomimetics, 2024, 9, 154.	3.3	0
585	Influence of occlusal and axial tooth reduction on fracture load and fracture mode of polyetheretherketone molar restorations after mechanical cycling. Asian Pacific Journal of Dentistry, 2018, 18, 29-36.	0.1	0
586	A balance of biocompatibility and antibacterial capability of 3D printed PEEK implants with natural totarol coating. Dental Materials, 2024, 40, 674-688.	3.5	0
587	Development of Non-metallic Structural Materials for Defence Systems. Indian Institute of Metals Series, 2024, , 133-162.	0.3	0
588	Studying and Characterization of Coating of Zeinâ€“CaSiO3 Composite on Polyetheretherketone Implant Material. International Journal of Dentistry, 2024, 2024, 1-10.	1.5	0
589	Comparative Analysis of the Mechanical Properties and Biocompatibility between CAD/CAM and Conventional Polymers Applied in Prosthetic Dentistry. Polymers, 2024, 16, 877.	4.5	0