Antonio Apicella

List of Publications by Year in descending order

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121 3,746 papers citations

29 h-index 56 g-index

124 all docs 124 docs citations 124 times ranked 2232 citing authors

#	Article	IF	CITATIONS
1	Effect of adhesive layer properties on stress distribution in composite restorations—a 3D finite element analysis. Dental Materials, 2002, 18, 295-303.	3.5	256
2	3D FEA of cemented steel, glass and carbon posts in a maxillary incisor. Dental Materials, 2005, 21, 709-715.	3.5	246
3	Evaluation of the biomechanical behavior of maxillary central incisors restored by means of endocrowns compared to a natural tooth: A 3D static linear finite elements analysis. Dental Materials, 2006, 22, 1035-1044.	3.5	192
4	3D-finite element analyses of cusp movements in a human upper premolar, restored with adhesive resin-based composites. Journal of Biomechanics, 2001, 34, 1269-1277.	2.1	156
5	Effect of thermal history on water sorption, elastic properties and the glass transition of epoxy resins. Polymer, 1979, 20, 1143-1148.	3.8	143
6	Poly(Ethylene oxide) (PEO) and different molecular weight PEO blends monolithic devices for drug release. Biomaterials, 1993, 14, 83-90.	11.4	123
7	Nano-Diamond Hybrid Materials for Structural Biomedical Application. American Journal of Biochemistry and Biotechnology, 2017, 13, 34-41.	0.4	122
8	Three-dimensional finite element analysis of strain and stress distributions in endodontically treated maxillary central incisors restored with diferent post, core and crown materials. Dental Materials, 2007, 23, 983-993.	3.5	120
9	Evaluation of structural changes in epoxy systems by moisture sorption-desorption and dynamic mechanical studies. Polymer Composites, 1982, 3, 118-124.	4.6	102
10	A model for the thermal and chemorheological behavior of thermosets. I: Processing of epoxy-based composites. Polymer Engineering and Science, 1989, 29, 973-983.	3.1	85
11	Thermokinetics and chemorheology of the cure reactions of the tetraglycidyl diamino diphenyl methane–diamino diphenyl sulfone epoxy systems. Journal of Applied Polymer Science, 1984, 29, 2083-2096.	2.6	84
12	Mandibular flexure and stress build-up in mandibular full-arch fixed prostheses supported by osseointegrated implants. Clinical Oral Implants Research, 2003, 14, 103-114.	4.5	84
13	Development of hybrid materials based on hydroxyethylmethacrylate as supports for improving cell adhesion and proliferation. Biomaterials, 2004, 25, 3645-3653.	11.4	84
14	Non-linear elastic three-dimensional finite element analysis on the effect of endocrown material rigidity on alveolar bone remodeling process. Dental Materials, 2009, 25, 678-690.	3.5	79
15	The effect of the prepolymer composition of amino-hardened epoxy resins on the water sorption behavior and plasticization. Journal of Applied Polymer Science, 1982, 27, 105-112.	2.6	78
16	Factors affecting water sorption in and solute release from glassy ethyleneâ€"vinyl alcohol copolymers. Journal of Membrane Science, 1981, 8, 273-282.	8.2	75
17	Influence of tooth preparation design on the stress distribution in maxillary central incisors restored by means of alumina porcelain veneers: A 3D-finite element analysis. Dental Materials, 2005, 21, 1178-1188.	3.5	64
18	Hygrothermal history dependence of moisture sorption kinetics in epoxy resins. Polymer Engineering and Science, 1981, 21, 18-22.	3.1	58

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19	Environmental degradation of the electrical and thermal properties of organic insulating materials. Journal of Materials Science, 1988, 23, 729-735.	3.7	54
20	Different solvent stability of the crystalline polymorphic forms of syndiotactic polystyrene. Journal of Materials Science Letters, 1991, 10, 1084-1087.	0.5	50
21	Rheological behaviour of a commercial TGDDM-DDS based epoxy matrix during the isothermal cure. Rheologica Acta, 1984, 23, 291-296.	2.4	44
22	Biomechanically Inspired Shape Memory Effect Machines Driven by Muscle like Acting NiTi Alloys. American Journal of Applied Sciences, 2016, 13, 1264-1271.	0.2	40
23	Dimensional stability of polystyrene/polymeric liquid crystal blends. Polymer Engineering and Science, 1986, 26, 600-604.	3.1	38
24	The Basic Elements of Life's. American Journal of Engineering and Applied Sciences, 2016, 9, 1189-1197.	0.6	38
25	Biomimetic and Evolutionary Design Driven Innovation in Sustainable Products Development. American Journal of Engineering and Applied Sciences, 2016, 9, 1027-1036.	0.6	38
26	Water-swelling behavior of an ethylene–vinyl alcohol copolymer in the presence of sorbed sodium chloride. Journal of Applied Polymer Science, 1982, 27, 1139-1148.	2.6	36
27	Physical degradation by water clustering in epoxy resins. Journal of Applied Polymer Science, 1983, 28, 2881-2885.	2.6	36
28	Environmental Protection through Nuclear Energy. American Journal of Applied Sciences, 2016, 13, 941-946.	0.2	36
29	Non-equilibrium glassy properties and their relevance in Case II transport kinetics. Polymer, 1980, 21, 1031-1036.	3.8	35
30	Carbon fiber post adhesion to resin luting cement in the restoration of endodontically treated teeth. Journal of Materials Science: Materials in Medicine, 2000, 11, 201-206.	3.6	34
31	One Can Slow Down the Aging through Antioxidants. American Journal of Engineering and Applied Sciences, 2016, 9, 1112-1126.	0.6	34
32	Dynamic Elements at MP3R. Journal of Mechatronics and Robotics, 2017, 1, 24-37.	0.3	34
33	Geometry and Direct Kinematics to MP3R with $4\tilde{A}-4$ Operators. Journal of Mechatronics and Robotics, 2017, 1, 38-46.	0.3	34
34	Water sorption kinetics in poly(aryl ether ether ketone). Journal of Applied Polymer Science, 1989, 37, 381-392.	2.6	32
35	Influence of abutment material on the fracture strength and failure modes of abutment-fixture assemblies when loaded in a bio-faithful simulation. Clinical Oral Implants Research, 2011, 22, 182-188.	4.5	31
36	Non-linear Viscoelastic Finite Element Analysis of the Effect of the Length of Glass Fiber Posts on the Biomechanical Behaviour of Directly Restored Incisors and Surrounding Alveolar Bone. Dental Materials Journal, 2008, 27, 485-498.	1.8	29

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37	Smart-Factory: Optimization and Process Control of Composite Centrifuged Pipes. American Journal of Applied Sciences, 2016, 13, 1330-1341.	0.2	28
38	Geometry and Inverse Kinematic at the MP3R Mobile Systems. Journal of Mechatronics and Robotics, 2017, 1, 58-65.	0.3	27
39	Analysis and Synthesis of Mechanisms with Bars and Gears Used in Robots and Manipulators. Journal of Mechatronics and Robotics, 2017, 1, 98-108.	0.3	27
40	Current Stage in the Field of Mechanisms with Gears and Rods. Journal of Mechatronics and Robotics, 2017, 1, 47-57.	0.3	27
41	Nonlinear viscoâ€elastic finite element analysis of different porcelain veneers configuration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 727-736.	3.4	26
42	Geometry and Determining the Positions of a Plan Transporter Manipulator. Journal of Mechatronics and Robotics, 2017, 1, 118-126.	0.3	25
43	Kinematics and Forces to a New Model Forging Manipulator. American Journal of Applied Sciences, 2017, 14, 60-80.	0.2	25
44	The effect of physical aging on long-term properties of poly-ether-ketone (PEEK) and PEEK-based composites. Journal of Applied Polymer Science, 1990, 39, 1163-1174.	2.6	24
45	Mitochondria are Naturally Micro Robots - A review. American Journal of Engineering and Applied Sciences, 2016, 9, 991-1002.	0.6	24
46	Flexible Stem Trabecular Prostheses. American Journal of Engineering and Applied Sciences, 2016, 9, 1213-1221.	0.6	24
47	Effect of Porous Microstructures on the Biomechanical Characteristics of a Root Analogue Implant: An Animal Study and a Finite Element Analysis. ACS Biomaterials Science and Engineering, 2020, 6, 6356-6367.	5.2	24
48	Solvent induced crystallization in poly(aryl-ether-ether-ketone). Journal of Materials Science, 1990, 25, 2963-2970.	3.7	23
49	About Homeopathy or ≪Similia Similibus Curentur≫. American Journal of Engineering and Applied Sciences, 2016, 9, 1164-1172.	0.6	23
50	Hybrid Ceramo-Polymeric Nanocomposite for Biomimetic Scaffolds Design and Preparation. American Journal of Engineering and Applied Sciences, 2016, 9, 1096-1105.	0.6	23
51	Physiologic Human Fluids and Swelling Behavior of Hydrophilic Biocompatible Hybrid Ceramo-Polymeric Materials. American Journal of Engineering and Applied Sciences, 2016, 9, 962-972.	0.6	23
52	Low temperature melting behavior of CO2 crystallized modified PETs. Polymer Engineering and Science, 1995, 35, 506-512.	3.1	21
53	In vitro biological response to a light-cured composite when used for cementation of composite inlays. Dental Materials, 2006, 22, 1081-1085.	3.5	21
54	Glassy Amorphous Metal Injection Molded Induced Morphological Defects. American Journal of Applied Sciences, 2016, 13, 1476-1482.	0.2	21

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55	Time and temperature dependent sorption in poly-ether-ether-ketone (PEEK). Polymer Engineering and Science, 1989, 29, 1786-1795.	3.1	19
56	We are Addicted to Vitamins C and E-A Review. American Journal of Engineering and Applied Sciences, 2016, 9, 1003-1018.	0.6	19
57	Combined microcomputed tomography, biomechanical and histomorphometric analysis of the peri-implant bone: a pilot study in minipig model. Dental Materials, 2016, 32, 794-806.	3.5	19
58	Implant-to-bone force transmission: a pilot study for in vivo strain gauge measurement technique. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 173-181.	3.1	19
59	Present a Mechatronic System Having Able to Determine the Concentration of Carotenoids. American Journal of Engineering and Applied Sciences, 2016, 9, 1106-1111.	0.6	18
60	Processability of Bulk Metallic Glasses. American Journal of Applied Sciences, 2017, 14, 294-301.	0.2	18
61	Something about the Balancing of Thermal Motors. American Journal of Engineering and Applied Sciences, 2017, 10, 200-217.	0.6	17
62	Something about the V Engines Design. American Journal of Applied Sciences, 2017, 14, 34-52.	0.2	17
63	Direct restoration modalities of fractured central maxillary incisors: A multi-levels validated finite elements analysis with in vivo strain measurements. Dental Materials, 2015, 31, e289-e305.	3.5	16
64	From Structural Colors to Super-Hydrophobicity and Achromatic Transparent Protective Coatings: Ion Plating Plasma Assisted TiO ₂ and SiO ₂ Nano-Film Deposition. SSRN Electronic Journal, 0, , .	0.4	16
65	A finite-element model study of occlusal schemes in full-arch implant restoration. Journal of Materials Science: Materials in Medicine, 1998, 9, 191-196.	3.6	15
66	The importance of cortical bone orthotropicity, maximum stiffness direction and thickness on the reliability of mandible numerical models. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 150-163.	3.4	14
67	Future Medicine Services Robotics. American Journal of Engineering and Applied Sciences, 2016, 9, 1062-1087.	0.6	14
68	Ecosphere Protection through Green Energy. American Journal of Applied Sciences, 2016, 13, 1027-1032.	0.2	14
69	Biomimetic Finite Element Analysis Bone Modeling for Customized Hybrid Biological Prostheses Development. American Journal of Applied Sciences, 2016, 13, 1060-1067.	0.2	14
70	Gears-Part I. American Journal of Engineering and Applied Sciences, 2017, 10, 457-472.	0.6	14
71	Nonlinear visco-elastic finite element analysis of porcelain veneers: a submodelling approach to strain and stress distributions in adhesive and resin cement. Journal of Adhesive Dentistry, 2010, 12, 403-13.	0.5	14
72	Something about the Mechanical Moment of Inertia. American Journal of Applied Sciences, 2016, 13, 1085-1090.	0.2	13

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73	Biofidel FEA Modeling of Customized Hybrid Biological Hip Joint Prostheses, Part I: Biomechanical Behavior of Implanted Femur. American Journal of Biochemistry and Biotechnology, 2016, 12, 270-276.	0.4	13
74	Processing of composite structures. Pure and Applied Chemistry, 1985, 57, 1701-1706.	1.9	12
75	The Quality of Transport and Environmental Protection, Part I. American Journal of Engineering and Applied Sciences, 2017, 10, 738-755.	0.6	11
76	Testing by Non-Destructive Control. American Journal of Engineering and Applied Sciences, 2017, 10, 568-583.	0.6	11
77	Biofidel FEA Modeling of Customized Hybrid Biological Hip Joint Design Part II: Flexible Stem Trabecular Prostheses. American Journal of Biochemistry and Biotechnology, 2016, 12, 277-285.	0.4	9
78	Something about Electron Dimension. American Journal of Applied Sciences, 2016, 13, 1272-1276.	0.2	9
79	Hybrid Ceramo-Polymeric Nano-Diamond Composites. American Journal of Engineering and Applied Sciences, 2018, 11, 766-782.	0.6	9
80	Calorimetric quality control of UV cured optical fiber-coatings. Journal of Applied Polymer Science, 1987, 33, 2077-2086.	2.6	7
81	Compositional influence on toughness of structural acrylic adhesives. Journal of Materials Science, 1991, 26, 434-440.	3.7	7
82	Light shielding effect of overlaying resin composite on the photopolymerization cure kinetics of a resin composite and a dentin adhesive. Dental Materials, 2005, 21, 954-961.	3.5	6
83	Multiaxial Fatigue Strength to Notched specimens made of 40CrMoV13.9. American Journal of Engineering and Applied Sciences, 2016, 9, 1269-1291.	0.6	6
84	About the Gear Efficiency to a Simple Planetary Train. American Journal of Applied Sciences, 2016, 13, 1428-1436.	0.2	6
85	Bioresorption Control and Biological Response of Magnesium Alloy AZ31 Coated with Poly- \hat{l}^2 -Hydroxybutyrate. Applied Sciences (Switzerland), 2021, 11, 5627.	2.5	6
86	Inlay shading effect on the photopolymerization kinetic of a dental composite material used as bonding system in an indirect restoration technique. Dental Materials, 2005, 21, 689-694.	3.5	5
87	Mechanically Stimulated Osteoblast Cells Growth. American Journal of Engineering and Applied Sciences, 2018, 11, 1023-1036.	0.6	5
88	Biomechanically Tunable Nano-Silica/P-HEMA Structural Hydrogels for Bone Scaffolding. Bioengineering, 2021, 8, 45.	3.5	5
89	Quality control of the cure process of thermosetting resins by means of differential scanning calorimetry. Journal of Thermal Analysis, 1985, 30, 1349-1357.	0.6	4
90	Cold Crystallization Behaviour of a Commercial Zr44-Ti11-Cu10-Ni10-Be25 Metal Glassy Alloy. Advanced Materials Research, 2015, 1088, 206-212.	0.3	4

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91	Liquid Crystalline Polymers Compatibilization and Adhesion Enhancement by Reactive Blending in Post-Consumers PET's. American Journal of Engineering and Applied Sciences, 2016, 9, 530-539.	0.6	4
92	Osmotic Tension, Plasticization and Viscoelastic response of amorphous Poly-Ether-Ether-Ketone (PEEK) equilibrated in humid environments. American Journal of Engineering and Applied Sciences, 2016, 9, 565-573.	0.6	4
93	From Structural Colors to Super-Hydrophobicity and Achromatic Transparent Protective Coatings: Ion Plating Plasma Assisted TiO ₂ and SiO ₂ Nano-Film Deposition. American Journal of Engineering and Applied Sciences, 2016, 9, 1037-1045.	0.6	4
94	Influence of Curing Light Type and Staining Medium on the Discoloring Stability of Dental Restorative Composite. American Journal of Biochemistry and Biotechnology, 2017, 13, 42-50.	0.4	4
95	About the Internal Structure of a Bone and its Functional Role. American Journal of Engineering and Applied Sciences, 2018, 11, 914-931.	0.6	4
96	A nanodiamond for structural biomimetic scaffolds. Engineering Review, 2019, 39, 81-89.	0.5	4
97	Effect of simulated microgravity induced PI3K-nos2b signalling on zebrafish cardiovascular plexus network formation. Journal of Biomechanics, 2019, 87, 83-92.	2.1	4
98	Network structure and plasticization of epoxyâ€based resins. Makromolekulare Chemie Macromolecular Symposia, 1987, 7, 97-113.	0.6	3
99	Thermal and chemorheological modelling of the processing of advanced epoxy based composites. Makromolekulare Chemie Macromolecular Symposia, 1989, 25, 45-54.	0.6	3
100	Extreme Environmental Resistance of PEEK Matrix. Journal of Reinforced Plastics and Composites, 1993, 12, 1138-1149.	3.1	3
101	Near Critical Carbon Dioxide Sorption Induced Crystallization in PET. American Journal of Engineering and Applied Sciences, 2016, 9, 846-853.	0.6	3
102	Innovative Biomaterials in Bone Tissue Engineering and Regenerative Medicine. Pancreatic Islet Biology, 2017, , 63-84.	0.3	3
103	Bio-Mechanically Active Ceramic-Polymeric Hybrid Scaffolds for Tissue Engineering. , 2016, , .		3
104	Enamel Erosion Reduction through Coupled Sodium Fluoride and Laser Treatments before Exposition in an Acid Environment: An In Vitro Randomized Control SEM Morphometric Analysis. Applied Sciences (Switzerland), 2022, 12, 1495.	2.5	3
105	Solvent mixtures sorption in amorphous peek. Polymer Bulletin, 1991, 27, 323-330.	3.3	2
106	Application of nanostructured smart materials in sustainable buildings. International Journal of Sustainable Manufacturing, 2010, 2, 66.	0.3	1
107	Ion Plating Plasma Assisted SiO ₂ and TiO ₂ Protective Nano-Coatings for Antique Ceramics Preservation. Advanced Materials Research, 2015, 1088, 701-705.	0.3	1
108	New Biomimetic Hybrid Nanocomposites for early Fixation Prostheses. Advanced Materials Research, 2015, 1088, 487-494.	0.3	1

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109	Biologically structured materials. Independent Journal of Management & Production, 2020, 11, 1119.	0.4	1
110	3D Analysis and Nano-Indentation Mechanical Characterization of a Commercial Zr44-Ti11-Cu10-Ni10-Be25 Metal Glassy Alloy. Advanced Materials Research, 2015, 1096, 120-124.	0.3	0
111	Periodontal Bone Substitutes Application Techniques and Cost Evaluation: A Review. American Journal of Engineering and Applied Sciences, 2016, 9, 951-961.	0.6	0
112	Factors Affecting Chemo-physical and Rheological Behaviour of Zr ₄₄ -Ti ₁₀ -Cu ₁₀ -Ni ₁₀ Metal Glassy Alloy Supercooled Liquids. American Journal of Engineering and Applied Sciences, 2016, 9, 98-106.	gt:-Be <s 0.6</s 	ub>25<
113	Geometry and Inverse Kinematic at the MP3R Mobile Systems. SSRN Electronic Journal, 0, , .	0.4	0
114	Some Aspects of the Human Body's Hydraulics. OnLine Journal of Biological Sciences, 2019, 19, 159-185.	0.4	0
115	Presents some Biologically Structured Materials. OnLine Journal of Biological Sciences, 2020, 20, 8-36.	0.4	0
116	Current Stage in the Field of Mechanisms with Gears and Rods. SSRN Electronic Journal, 0, , .	0.4	0
117	Synthesis of Optimal Trajectories with Functions Control at the Level of the Kinematic Drive Couplings. SSRN Electronic Journal, 0, , .	0.4	0
118	Geometry and Direct Kinematics to MP3R with 444 Operators. SSRN Electronic Journal, 0, , .	0.4	0
119	Dynamic Elements at MP3R. SSRN Electronic Journal, 0, , .	0.4	0
120	Under Water. OnLine Journal of Biological Sciences, 2017, 17, 70-87.	0.4	0
121	Modern Propulsions for the Aerospace Industry. SSRN Electronic Journal, 0, , .	0.4	О