

Jen-Chang Yang

List of Publications by Year in descending order

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53
papers

873
citations

471509

17
h-index

526287

27
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56
all docs

56
docs citations

56
times ranked

1365
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of processing conditions on the crystallinity and structure of carbonated calcium hydroxyapatite (CHAp). <i>CrystEngComm</i> , 2014, 16, 3950.	2.6	121
2	A Novel Accelerator for Improving the Handling Properties of Dental Filling Materials. <i>Journal of Endodontics</i> , 2009, 35, 1292-1295.	3.1	67
3	A novel injectable chitosan/polyglutamate polyelectrolyte complex hydrogel with hydroxyapatite for soft-tissue augmentation. <i>Carbohydrate Polymers</i> , 2012, 89, 1123-1130.	10.2	58
4	Optimization and Evaluation of a Chitosan/Hydroxypropyl Methylcellulose Hydrogel Containing Toluidine Blue O for Antimicrobial Photodynamic Inactivation. <i>International Journal of Molecular Sciences</i> , 2015, 16, 20859-20872.	4.1	38
5	An in vivo swine study for xeno-grafts of calcium sulfate-based bone grafts with human dental pulp stem cells (hDPSCs). <i>Materials Science and Engineering C</i> , 2015, 50, 19-23.	7.3	35
6	Lattice deformation and thermal stability of crystals in spider silk. <i>International Journal of Biological Macromolecules</i> , 2004, 34, 267-273.	7.5	32
7	Formation of Highly Aligned, Single-Layered, Hollow Fibrous Assemblies and the Fabrication of Large Pieces of PLLA Membranes. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 115-122.	3.6	28
8	Effects of a Novel Hydration Accelerant on the Biological and Mechanical Properties of White Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2011, 37, 851-855.	3.1	25
9	Bio-electrospinning of poly(L-lactic acid) hollow fibrous membrane. <i>Textile Research Journal</i> , 2012, 82, 602-612.	2.2	23
10	A novel resorbable β -calcium sulfate hemihydrate/amorphous calcium phosphate bone substitute for dental implantation surgery. <i>Materials Science and Engineering C</i> , 2012, 32, 440-446.	7.3	23
11	Direct electron transfer of cytochrome C and its electrocatalytic properties on multiwalled carbon nanotubes/ciprofloxacin films. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2129-2135.	2.5	22
12	Fe and Zn co-substituted beta-tricalcium phosphate (β -TCP): Synthesis, structural, magnetic, mechanical and biological properties. <i>Materials Science and Engineering C</i> , 2020, 112, 110918.	7.3	22
13	Miscibility and thermal properties of melt-mixed poly(trimethylene terephthalate)/amorphous copolyester blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2264-2274.	2.1	21
14	Characterization of poly(lactic acid)s with reduced molecular weight fabricated through an autoclave process. <i>Polymer Testing</i> , 2017, 60, 132-139.	4.8	20
15	Conferring biological activity to native spider silk: A biofunctionalized protein-based microfiber. <i>Biotechnology and Bioengineering</i> , 2017, 114, 83-95.	3.3	20
16	Novel attempts for the synthesis of calcium sulfate hydrates in calcium chloride solutions under atmospheric conditions. <i>Ceramics International</i> , 2012, 38, 381-387.	4.8	19
17	Radiopacity and Cytotoxicity of Portland Cement Containing Zirconia Doped Bismuth Oxide Radiopacifiers. <i>Journal of Endodontics</i> , 2014, 40, 251-254.	3.1	19
18	The potential effects of cholecalciferol on bone regeneration in dogs. <i>Clinical Oral Implants Research</i> , 2012, 23, 1187-1192.	4.5	17

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19	Processing and properties of hydrophilic electrospun polylactic acid/beta-tricalcium phosphate membrane for dental applications. <i>Polymer Engineering and Science</i> , 2013, 53, 833-842.	3.1	17
20	In Vitro and In Vivo Studies of Hydrophilic Electrospun PLA95/ β -TCP Membranes for Guided Tissue Regeneration (GTR) Applications. <i>Nanomaterials</i> , 2019, 9, 599.	4.1	16
21	Effect of Mn doping on hydrolysis of low-temperature synthesized metastable alpha-tricalcium phosphate. <i>Ceramics International</i> , 2021, 47, 12078-12083.	4.8	16
22	The Physical, Chemical and Biological Effects by Room Temperature Ceramic Far-Infrared Ray Emitting Material Irradiated Water: A Pilot Study. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 589-597.	1.4	15
23	The role of the calmodulin-dependent pathway in static magnetic field-induced mechanotransduction. <i>Bioelectromagnetics</i> , 2010, 31, 255-261.	1.6	14
24	In vivo evaluation of poorly crystalline hydroxyapatite-based biphasic calcium phosphate bone substitutes for treating dental bony defects. <i>Journal of Dental Sciences</i> , 2010, 5, 100-108.	2.5	14
25	Sintering Temperature-Dependence on Radiopacity of Bi($2+x$) ZrO($3+x/2$) Powders Prepared by Sol-Gel Process. <i>Materials</i> , 2018, 11, 1685.	2.9	14
26	The Antibacterial Efficacy and In Vivo Toxicity of Sodium Hypochlorite and Electrolyzed Oxidizing (EO) Water-Based Endodontic Irrigating Solutions. <i>Materials</i> , 2020, 13, 260.	2.9	13
27	The effects of melt annealing and counterpart's molecular weight on the thermal properties and phase morphology of poly(ϵ -lactide)-based blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1497-1510.	2.1	11
28	Influence of hydrolytic degradation on the surface properties of poly-5d/95l-lactide resorbable bone plates. <i>Polymer Degradation and Stability</i> , 2011, 96, 1522-1529.	5.8	11
29	Influence of Thread Design on Dental Implant Osseointegration Assayed Using the Lan-Yu Mini-Pig Model. <i>Journal of Medical and Biological Engineering</i> , 2017, 37, 627-638.	1.8	11
30	Luminance and brightness field distribution of light guiding plate for backlight panel (BLP) by micro molding. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1887-1893.	3.2	10
31	Radiopacity performances of precipitated ZrO ₂ -doped Bi ₂ O ₃ powders and the influences of dopant concentrations and sintering temperatures. <i>Ceramics International</i> , 2017, 43, 14008-14014.	4.8	9
32	An Insight into Nano Silver Fluoride-Coated Silk Fibroin Bioinspired Membrane Properties for Guided Tissue Regeneration. <i>Polymers</i> , 2021, 13, 2659.	4.5	9
33	Bioceramic Resonance Effect on Meridian Channels: A Pilot Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-9.	1.2	8
34	Evaluation of Osseointegration in Titanium and Zirconia-Based Dental Implants with Surface Modification in a Miniature Pig Model. <i>Journal of Medical and Biological Engineering</i> , 2017, 37, 313-320.	1.8	8
35	Plasmon-Activated Water can Prolong Existing Sea-Ice Habitats to Potentially Save Polar Bears. <i>Scientific Reports</i> , 2019, 9, 10398.	3.3	7
36	3D pore-interconnected calcium phosphate bone blocks for bone tissue engineering. <i>Ceramics International</i> , 2020, 46, 16465-16471.	4.8	6

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37	A Novel One-Pot Synthesis and Characterization of Silk Fibroin/ β -Calcium Sulfate Hemihydrate for Bone Regeneration. <i>Polymers</i> , 2021, 13, 1996.	4.5	6
38	Tooth discoloration and the effects of internal bleaching on the novel endodontic filling material SavDenA [®] MTA. <i>Journal of the Formosan Medical Association</i> , 2021, 120, 476-482.	1.7	5
39	The In Vivo Toxicity and Antimicrobial Properties for Electrolyzed Oxidizing (EO) Water-Based Mouthwashes. <i>Materials</i> , 2020, 13, 4299.	2.9	5
40	Characterization and Antibacterial Properties of Polyetherketoneketone Coated with a Silver Nanoparticle-in-Epoxy Lining. <i>Polymers</i> , 2022, 14, 2906.	4.5	5
41	Early clinical experience with resorbable poly-5D/95L-lactide (PLA95) plate system for treating distal radius fractures. <i>Journal of Dental Sciences</i> , 2013, 8, 44-52.	2.5	4
42	Hydrothermal Effect on Mechanical Properties of Nephila pilipes Spidroin. <i>Polymers</i> , 2020, 12, 1013.	4.5	4
43	A Facile Measurement for Monitoring Dragline Silk Dope Concentration in Nephila pilipes upon Spinning. <i>Materials</i> , 2018, 11, 1951.	2.9	3
44	Wasted Ganoderma tsugae Derived Chitosans for Smear Layer Removal in Endodontic Treatment. <i>Polymers</i> , 2019, 11, 1795.	4.5	3
45	A Silk Fibroin Based Hydration Accelerator for Root Canal Filling Materials. <i>Polymers</i> , 2020, 12, 994.	4.5	3
46	Effects of Heat Treatment of Selective Laser Melting Printed Ti-6Al-4V Specimens on Surface Texture Parameters and Cell Attachment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2234.	2.5	3
47	A Novel Sol-Gel Bi ₂ -xHf _x O _{3+x/2} Radiopacifier for Mineral Trioxide Aggregates (MTA) as Dental Filling Materials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7292.	2.5	3
48	Rehardening and the Protective Effect of Gamma-Polyglutamic Acid/Nano-Hydroxyapatite Paste on Surface-Etched Enamel. <i>Polymers</i> , 2021, 13, 4268.	4.5	3
49	The Structure-Property-Processing Relationship for Sintered Yttria-Stabilized Zirconia (YSZ)/Alumina Bioceramics. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013, 25, 1350005.	0.6	2
50	In Vitro Evaluation of Dentin Tubule Occlusion for Novel Calcium Lactate Phosphate (CLP) Paste. <i>Materials</i> , 2017, 10, 228.	2.9	2
51	A Continuous Static-Mixer-Based Reactor for Preparing Calcium Phosphate Bioceramics. <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 88-99.	2.1	1
52	Clinical and radiographic evaluation of different materials in primary molar pulpotomies: A retrospective study. <i>Journal of Dental Sciences</i> , 2019, 14, 408-412.	2.5	1
53	An Optical Tweezers-Based Single-Cell Manipulation and Detection Platform for Probing Real-Time Cancer Cell Chemotaxis and Response to Tyrosine Kinase Inhibitor PD153035. <i>Photonics</i> , 2021, 8, 533.	2.0	1