Yanen Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7225345/publications.pdf

Version: 2024-02-01

42	1,351	331670	345221
papers	citations	21 h-index	36 g-index

42	42	42	1356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on 3D printed matrix polymer composites: its potential and future challenges. International Journal of Advanced Manufacturing Technology, 2020, 106, 1695-1721.	3.0	128
2	A molecular dynamic simulation method to elucidate the interaction mechanism of nano-SiO2 in polymer blends. Journal of Materials Science, 2017, 52, 12889-12901.	3.7	76
3	Knowledge structure and research progress in wind power generation (WPG) from 2005 to 2020 using CiteSpace based scientometric analysis. Journal of Cleaner Production, 2021, 295, 126496.	9.3	72
4	Bionic Design, Materials and Performance of Bone Tissue Scaffolds. Materials, 2017, 10, 1187.	2.9	71
5	Electron Beam Melting Fabrication of Porous Ti6Al4V Scaffolds: Cytocompatibility and Osteogenesis. Advanced Engineering Materials, 2015, 17, 1391-1398.	3.5	61
6	Measurement and modeling of the effect of composition ratios on the properties of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	7.0	59
7	Molecular dynamics simulation and experimental study of the bonding properties of polymer binders in 3D powder printed hydroxyapatite bioceramic bone scaffolds. Ceramics International, 2017, 43, 13702-13709.	4.8	59
8	Effects of composition ratio on the properties of poly(vinyl alcohol)/poly(acrylic acid) blend membrane: A molecular dynamics simulation study. Materials and Design, 2016, 89, 848-855.	7.0	56
9	Application of 3D printing technology in bone tissue engineering. Bio-Design and Manufacturing, 2018, 1, 203-210.	7.7	54
10	Molecular mechanisms in compatibility and mechanical properties of Polyacrylamide/Polyvinyl alcohol blends. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 565-573.	3.1	50
11	Applications of additive manufacturing (AM) in sustainable energy generation and battle against COVID-19 pandemic: The knowledge evolution of 3D printing. Journal of Manufacturing Systems, 2021, 60, 709-733.	13.9	48
12	Study the bonding mechanism of binders on hydroxyapatite surface and mechanical properties for 3DP fabrication bone scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 190-200.	3.1	43
13	State-Of-The-Art and Trends in CO2 Laser Cutting of Polymeric Materialsâ€"A Review. Materials, 2020, 13, 3839.	2.9	41
14	3D printing biocompatible l-Arg/GNPs/PLA nanocomposites with enhanced mechanical property and thermal stability. Journal of Materials Science, 2020, 55, 5064-5078.	3.7	41
15	3D fabrication and characterization of phosphoric acid scaffold with a HA/Î²-TCP weight ratio of 60:40 for bone tissue engineering applications. PLoS ONE, 2017, 12, e0174870.	2.5	38
16	Design and Fabrication of Sodium Alginate/Carboxymethyl Cellulose Sodium Blend Hydrogel for Artificial Skin. Gels, 2021, 7, 115.	4.5	35
17	Additively manufactured nano-mechanical energy harvesting systems: advancements, potential applications, challenges and future perspectives. Nano Convergence, 2021, 8, 37.	12.1	32
18	Atomic-scale and experimental investigation on the micro-structures and mechanical properties of PLA blending with CMC for additive manufacturing. Materials and Design, 2019, 183, 108158.	7.0	31

#	Article	IF	Citations
19	Design and evaluation of sodium alginate/polyvinyl alcohol blend hydrogel for 3D bioprinting cartilage scaffold: molecular dynamics simulation and experimental method. Journal of Materials Research and Technology, 2022, 17, 66-78.	5.8	31
20	Structural and water diffusion of poly(acryl amide)/poly(vinyl alcohol) blend films: Experiment and molecular dynamics simulations. Journal of Molecular Graphics and Modelling, 2017, 71, 40-49.	2.4	30
21	The printability of three water based polymeric binders and their effects on the properties of 3D printed hydroxyapatite bone scaffold. Ceramics International, 2020, 46, 6663-6671.	4.8	27
22	Self-Healing Mechanism and Conductivity of the Hydrogel Flexible Sensors: A Review. Gels, 2021, 7, 216.	4.5	22
23	Study of the effects of water content and temperature on polyacrylamide/polyvinyl alcohol interpenetrating network hydrogel performance by a molecular dynamics method. E-Polymers, 2015, 15, 301-309.	3.0	21
24	Effect of composition and macropore percentage on mechanical and in vitro cell proliferation and differentiation properties of 3D printed HA/Î²-TCP scaffolds. RSC Advances, 2017, 7, 43186-43196.	3.6	21
25	Evaluating the Effects of Nanosilica on Mechanical and Tribological Properties of Polyvinyl Alcohol/Polyacrylamide Polymer Composites for Artificial Cartilage from an Atomic Level. Polymers, 2019, 11, 76.	4.5	21
26	Investigating the properties and interaction mechanism of nano-silica in polyvinyl alcohol/polyacrylamide blends at an atomic level. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 529-537.	3.1	20
27	Multi-scale investigation on the phase miscibility of polylactic acid/o-carboxymethyl chitosan blends. Polymer, 2019, 176, 159-167.	3.8	20
28	3D printing thermo-responsive shape memory polymer composite based on PCL/TPU blends. Journal of Polymer Research, 2022, 29, .	2.4	20
29	Aggregation Behavior of Nano-Silica in Polyvinyl Alcohol/Polyacrylamide Hydrogels Based on Dissipative Particle Dynamics. Polymers, 2017, 9, 611.	4.5	19
30	Light-responsive shape memory polymer composites. European Polymer Journal, 2022, 173, 111314.	5.4	16
31	Current researches on design and manufacture of biopolymer-based osteochondral biomimetic scaffolds. Bio-Design and Manufacturing, 2021, 4, 541-567.	7.7	15
32	Effects of the composition ratio on the properties of PCL/PLA blends: a kind of thermo-sensitive shape memory polymer composites. Journal of Polymer Research, 2021, 28, 1.	2.4	15
33	Study on the Mechanical Properties of Three-Dimensional Directly Binding Hydroxyapatite Powder. Cell Biochemistry and Biophysics, 2015, 72, 289-295.	1.8	14
34	Ultralight graphene/carbon nanofibers/carbon nanotubes aerogels with thermal insulating and hot-oil adsorption performance. Journal of Materials Science, 2021, 56, 7409-7419.	3.7	11
35	Success Factors of Additive Manufactured Root Analogue Implants. ACS Biomaterials Science and Engineering, 2022, 8, 360-378.	5.2	8
36	Enhanced bone healing in porous Ti implanted rabbit combining bioactive modification and mechanical stimulation. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 336-344.	3.1	7

#	Article	IF	Citations
37	Influence of Fused Deposition Molding Printing Process on the Toughness and Miscibility of Polylactic Acid/Polycaprolactone Blends. Journal of Materials Engineering and Performance, 2022, 31, 1338-1345.	2.5	6
38	Research on the miscibility, mechanical properties and printability of polylactic acid/poly (Îµ-caprolactone) blends: insights from molecular dynamics simulation and experiments. Journal of Materials Science, 2021, 56, 9754-9768.	3.7	5
39	ä¸æ€§åŒ–ä¸‰ç»´æ‰“å°¿”Ýé²¨é¼æœ¯å‰è¯Šæ–æ¨¡åž‹. Scientia Sinica Informationis, 2015, 45, 235-247.	0.4	4
40	3D-Printed Cold Preservation Device in Renal Autotransplantation for the Treatment of a Patient With Renal Artery Stenosis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 738434.	4.1	2
41	Atomic Scale Investigation on the Structural and Mechanical Properties of Carbon Nanotubes Reinforced Polylactic acid Composites. Macromolecular Materials and Engineering, 2022, 307, .	3.6	1
42	A Novel Digital Factory Technology in Complex Production Application. , 2010, , .		0