

Yanen Wang

List of Publications by Year in descending order

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42
papers

1,351
citations

331670

21
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Fused Deposition Molding Printing Process on the Toughness and Miscibility of Polylactic Acid/Polycaprolactone Blends. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1338-1345.	2.5	6
2	Design and evaluation of sodium alginate/polyvinyl alcohol blend hydrogel for 3D bioprinting cartilage scaffold: molecular dynamics simulation and experimental method. <i>Journal of Materials Research and Technology</i> , 2022, 17, 66-78.	5.8	31
3	Success Factors of Additive Manufactured Root Analogue Implants. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 360-378.	5.2	8
4	Atomic Scale Investigation on the Structural and Mechanical Properties of Carbon Nanotubes Reinforced Poly(lactic acid) Composites. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	1
5	3D printing thermo-responsive shape memory polymer composite based on PCL/TPU blends. <i>Journal of Polymer Research</i> , 2022, 29, .	2.4	20
6	Light-responsive shape memory polymer composites. <i>European Polymer Journal</i> , 2022, 173, 111314.	5.4	16
7	Ultralight graphene/carbon nanofibers/carbon nanotubes aerogels with thermal insulating and hot-oil adsorption performance. <i>Journal of Materials Science</i> , 2021, 56, 7409-7419.	3.7	11
8	Current researches on design and manufacture of biopolymer-based osteochondral biomimetic scaffolds. <i>Bio-Design and Manufacturing</i> , 2021, 4, 541-567.	7.7	15
9	Research on the miscibility, mechanical properties and printability of polylactic acid/poly (μ -caprolactone) blends: insights from molecular dynamics simulation and experiments. <i>Journal of Materials Science</i> , 2021, 56, 9754-9768.	3.7	5
10	Knowledge structure and research progress in wind power generation (WPG) from 2005 to 2020 using CiteSpace based scientometric analysis. <i>Journal of Cleaner Production</i> , 2021, 295, 126496.	9.3	72
11	Applications of additive manufacturing (AM) in sustainable energy generation and battle against COVID-19 pandemic: The knowledge evolution of 3D printing. <i>Journal of Manufacturing Systems</i> , 2021, 60, 709-733.	13.9	48
12	Design and Fabrication of Sodium Alginate/Carboxymethyl Cellulose Sodium Blend Hydrogel for Artificial Skin. <i>Gels</i> , 2021, 7, 115.	4.5	35
13	Effects of the composition ratio on the properties of PCL/PLA blends: a kind of thermo-sensitive shape memory polymer composites. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	15
14	Self-Healing Mechanism and Conductivity of the Hydrogel Flexible Sensors: A Review. <i>Gels</i> , 2021, 7, 216.	4.5	22
15	Additively manufactured nano-mechanical energy harvesting systems: advancements, potential applications, challenges and future perspectives. <i>Nano Convergence</i> , 2021, 8, 37.	12.1	32
16	3D-Printed Cold Preservation Device in Renal Autotransplantation for the Treatment of a Patient With Renal Artery Stenosis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 738434.	4.1	2
17	A review on 3D printed matrix polymer composites: its potential and future challenges. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1695-1721.	3.0	128
18	The printability of three water based polymeric binders and their effects on the properties of 3D printed hydroxyapatite bone scaffold. <i>Ceramics International</i> , 2020, 46, 6663-6671.	4.8	27

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19	State-Of-The-Art and Trends in CO2 Laser Cutting of Polymeric Materials—A Review. <i>Materials</i> , 2020, 13, 3839.	2.9	41
20	3D printing biocompatible l-Arg/GNPs/PLA nanocomposites with enhanced mechanical property and thermal stability. <i>Journal of Materials Science</i> , 2020, 55, 5064-5078.	3.7	41
21	Atomic-scale and experimental investigation on the micro-structures and mechanical properties of PLA blending with CMC for additive manufacturing. <i>Materials and Design</i> , 2019, 183, 108158.	7.0	31
22	Multi-scale investigation on the phase miscibility of polylactic acid/o-carboxymethyl chitosan blends. <i>Polymer</i> , 2019, 176, 159-167.	3.8	20
23	Evaluating the Effects of Nanosilica on Mechanical and Tribological Properties of Polyvinyl Alcohol/Polyacrylamide Polymer Composites for Artificial Cartilage from an Atomic Level. <i>Polymers</i> , 2019, 11, 76.	4.5	21
24	Enhanced bone healing in porous Ti implanted rabbit combining bioactive modification and mechanical stimulation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 336-344.	3.1	7
25	Application of 3D printing technology in bone tissue engineering. <i>Bio-Design and Manufacturing</i> , 2018, 1, 203-210.	7.7	54
26	Investigating the properties and interaction mechanism of nano-silica in polyvinyl alcohol/polyacrylamide blends at an atomic level. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 529-537.	3.1	20
27	Effect of composition and macropore percentage on mechanical and in vitro cell proliferation and differentiation properties of 3D printed HA/β-TCP scaffolds. <i>RSC Advances</i> , 2017, 7, 43186-43196.	3.6	21
28	A molecular dynamic simulation method to elucidate the interaction mechanism of nano-SiO ₂ in polymer blends. <i>Journal of Materials Science</i> , 2017, 52, 12889-12901.	3.7	76
29	Molecular dynamics simulation and experimental study of the bonding properties of polymer binders in 3D powder printed hydroxyapatite bioceramic bone scaffolds. <i>Ceramics International</i> , 2017, 43, 13702-13709.	4.8	59
30	Structural and water diffusion of poly(acryl amide)/poly(vinyl alcohol) blend films: Experiment and molecular dynamics simulations. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 71, 40-49.	2.4	30
31	Molecular mechanisms in compatibility and mechanical properties of Polyacrylamide/Polyvinyl alcohol blends. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 565-573.	3.1	50
32	Bionic Design, Materials and Performance of Bone Tissue Scaffolds. <i>Materials</i> , 2017, 10, 1187.	2.9	71
33	Aggregation Behavior of Nano-Silica in Polyvinyl Alcohol/Polyacrylamide Hydrogels Based on Dissipative Particle Dynamics. <i>Polymers</i> , 2017, 9, 611.	4.5	19
34	3D fabrication and characterization of phosphoric acid scaffold with a HA/β-TCP weight ratio of 60:40 for bone tissue engineering applications. <i>PLoS ONE</i> , 2017, 12, e0174870.	2.5	38
35	Measurement and modeling of the effect of composition ratios on the properties of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.0	59
36	Study the bonding mechanism of binders on hydroxyapatite surface and mechanical properties for 3DP fabrication bone scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 57, 190-200.	3.1	43

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37	Effects of composition ratio on the properties of poly(vinyl alcohol)/poly(acrylic acid) blend membrane: A molecular dynamics simulation study. <i>Materials and Design</i> , 2016, 89, 848-855.	7.0	56
38	Electron Beam Melting Fabrication of Porous Ti6Al4V Scaffolds: Cytocompatibility and Osteogenesis. <i>Advanced Engineering Materials</i> , 2015, 17, 1391-1398.	3.5	61
39	Study on the Mechanical Properties of Three-Dimensional Directly Binding Hydroxyapatite Powder. <i>Cell Biochemistry and Biophysics</i> , 2015, 72, 289-295.	1.8	14
40	Study of the effects of water content and temperature on polyacrylamide/polyvinyl alcohol interpenetrating network hydrogel performance by a molecular dynamics method. <i>E-Polymers</i> , 2015, 15, 301-309.	3.0	21
41	ä, ä€Šä€—ä, %ç»æ%“äºä»¿ç”Ÿé”é¹¼æœ~ä%è~Šæ—æ”; äž«. <i>Scientia Sinica Informationis</i> , 2015, 45, 235-247.	0.4	4
42	A Novel Digital Factory Technology in Complex Production Application. , 2010, , .		0